SED-286
SoCalGas Response to SED Data Request 11 - Documents
I.19-06-016
ALJs: Hecht/Poirier
Date Served: May 3, 2021

Well	Discovery Date	Stop Date	Type	Depth, ft	Method of Mitigation	Method of Repair	Cause of Leak
P32	12/13/1973	8/6/1975	Casing	4510	Killed well	Innerstring installation	Unknown
FF32C	4/4/1974	6/17/1976	Stage collar	3738	Killed well	Casing patch installation	Stage collar port leaking
FF35E	12/14/1974	11/13/1976	Stage collar	2344	Killed well	Innerstring installation	Stage collar port leaking
P12	4/30/1975	12/4/1975	Casing	3634	Killed well	Cement squeeze, casing patch, and convert to tubing flow	Unknown
P45	2/26/1976	4/25/1977	Casing	500	Killed well	Innerstring installation	Unknown
FF32E	3/15/1976	11/2/1976	Casing shoe	7122	Killed well	Cement squeeze	Insufficient cement integrity
P47	8/27/1976	9/9/1976	WSO perforations	7328	Closed sliding sleeve	Cement squeeze	Insufficient cement integrity
P32C	9/21/1976	10/6/1976	Stage collar	3165	Killed well	Cement squeeze & casing patch	Stage collar port leaking
SF1	11/24/1976	12/23/1977	Casing	1378	Killed well	Innerstring installation	Unknown
SS44A	4/4/1977	6/2/1977	Stage collar	8850	Set tubing plug at 8790'	Cement squeeze & casing patch installation	Stage collar port leaking
SS5	8/30/1977	11/23/1977	Casing	1050	Killed well	Innerstring installation	Unknown
FF35B	10/14/1977	7/25/1978	Casing patch	3978	Killed well	Casing patch replacement	Casing patch seal leaking
P44	12/9/1977	1/24/1978	Casing	4000	Killed well	Cement squeeze & casing patch	Unknown
FF35	6/15/1978	6/22/1978	Casing shoe	6900	Killed well	Cement squeeze, plugged and abandoned	Insufficient cement integrity
FF35A	6/15/1978	7/25/1978	Casing shoe	6640	Killed well	Cement squeeze	Insufficient cement integrity
SS11	9/19/1978	11/8/1978	Casing shoe	8692	Killed well	Cement squeeze	Insufficient cement integrity
SS4A	10/5/1978	12/15/1978	Casing	4291	Killed well	Cement squeeze and set straddle packers	Unknown
SS10	11/8/1978	12/9/1978	Casing	4492	Killed well	Casing patch installation	Unknown
SS11	7/24/1979	3/24/1980	Casing shoe	8730	Set tubing plug at 8659'	Cement squeeze	Insufficient cement integrity
SS25B	8/3/1979	10/18/1979	Casing shoe	8434	Set tubing plug at 8395'	Cement squeeze	Insufficient cement integrity
SS44A	8/3/1979	9/5/1979	Casing patch	3977	Killed well	Casing patch replacement	Casing patch seal leaking
P26C	8/27/1979	7/16/1980	Casing	6586	Killed well	Cement squeeze and casing patch	Unknown
FF35B	2/27/1980	4/17/1980	Casing patch	3978	Killed well	Cement squeeze & casing patch replacement	Casing patch seal leaking
P26C	5/13/1980	7/16/1980	Casing shoe	7850	Killed well	Cement squeeze & casing patch	Insufficient cement integrity
FF32C	7/24/1980	7/29/1981	Casing patch	3738	Killed well	Casing patch replacement	Casing patch seal leaking
FF35B	8/13/1980	10/29/1980	Casing shoe	7200	Killed well	Cement squeeze & casing patch replacement	Insufficient cement integrity
P43	10/8/1980	4/23/1981	Casing	2020	Killed well	Casing patch installation	Unknown
P26B	12/15/1980	8/7/1981	Stage collar	2793	Killed well	Installed casing patch	Stage collar port leaking
P4	4/23/1981	6/6/1982	Casing shoe	7600	Killed well	Cement squeeze, plugged and abandoned	Insufficient cement integrity
MA1B	5/8/1981	8/14/1981	Casing patch	1594	Killed well	Casing patch replacement	Casing patch seal leaking
P69A	5/19/1981	10/30/1981	Casing	4913	Killed well	Cement squeeze & casing patch installation	Unknown
P42	7/13/1981	7/13/1982	Casing shoe	8020	Killed well	Cement squeeze, plugged and abandoned	Insufficient cement integrity
SS25A	9/22/1981	10/2/1981	Stage collar	2990	Set tubing plug at 8190'	Casing patch installation	Stage collar port leaking
SS4	9/24/1981	12/1/1981	Casing	8600	Killed well	Cement squeeze	Unknown
MA1B	10/7/1981	1/5/1982	Casing patch	1594	Killed well	Cement squeeze & casing patch replacement	Casing patch seal leaking
SS6	2/7/1982	8/12/1982	Casing shoe	8444	Killed well	Cement squeeze	Insufficient cement integrity
P26C	4/2/1982	7/6/1982	Stage collar	6586	Killed well	Cement plug back	Stage collar port leaking
MA1B	4/30/1982	11/18/1982	Casing patch	1594	Killed well	Innerstring installation	Casing patch seal leaking
MA1B	4/30/1982	11/18/1982	Casing shoe	7200	Killed well	Cement squeeze	Insufficient cement integrity
P69A	6/18/1982	1/7/1983	WSO perforations	7572	Killed well	Cement squeeze and innerstring installation	Insufficient cement integrity
SS2	6/25/1982	12/8/1982	WSO perforations	8540	Killed well	Cement squeeze	Insufficient cement integrity
SS25A	10/18/1982	10/23/1982	Casing patch	2990	Set tubing plug at 8190'	Convert to tubing flow	Casing patch seal leaking
P26E	12/3/1982	1/6/1983	Casing shoe	7360	Killed well	Cement squeeze	Insufficient cement integrity
SS24	3/29/1984	1/11/1985	Casing shoe	8750	Killed well	Cement squeeze	Insufficient cement integrity
P45	4/15/1984	6/5/1985	Casing	3000	Killed well	Innerstring replacement	Unknown
F3	6/13/1984	6/14/1984	Casing	3240	Killed well	Cement squeeze & innerstring installation	Unknown
P32E	7/6/1984	7/16/1984	Stage collar	3014	Set tubing plug at 7397'	Casing patch installation	Stage collar port leaking
FF32F	7/30/1984	8/20/1984	Stage collar	2001	Set tubing plug at 7050'	Casing patch installation	Stage collar port leaking
FF32B	8/13/1984	8/30/1984	Stage collar	2980	Set tubing plug at 7329'	Casing patch installation	Stage collar port leaking
SS25B	8/12/1986	11/21/1986	Casing patch	2918	Set tubing plug at 8380'	Casing patch replacement	Casing patch seal leaking
FF32E	10/29/1986	11/10/1986	Stage collar	3000	Closed sliding sleeve	Convert to tubing flow	Stage collar port leaking
SS29	9/24/1987	9/20/1991	Casing shoe	8330	Killed well	Cement squeeze	Insufficient cement integrity
F4	1/2/1988	1/29/1988	Casing	32	Set tubing plug at 8212'	Innerstring installation	Unknown
FF35C	9/15/1989	6/6/1990	Stage collar	1955	Killed well	Innerstring installation	Stage collar port leaking
FF34A	9/10/1990	9/11/1990	Casing	1580	Set tubing plug at 7489'	Cement squeeze, casing patch & innerstring installation	Memo in file indicates cause was corrosion
P26	7/21/1991	8/30/1991	Casing shoe	7513	Killed well	Cement squeeze and innerstring installation	Insufficient cement integrity
P26	6/14/1992	8/11/1992	Casing	40	Closed sliding sleeve	Replaced top two joints of innerstring	Unknown

SS11	7/28/1992	4/19/1993	Casing shoe	8700	Killed well	Cement squeeze	Insufficient cement integrity
FF32	9/10/1992	12/14/1992	Casing shoe	7040	Killed well	Cement squeeze	Insufficient cement integrity
FF33	7/28/1993	4/27/1994	Casing	115	Killed well	Casing patch installation	Unknown
SS14	4/30/1997	5/31/1997	Casing	622	Closed sliding sleeve	Replaced top section of casing	Unknown
FF32F	1/5/1999	1/6/1999	Casing patch	2001	Set tubing plug at 7050'	Casing patch replacement	Casing patch seal leaking
FF32C	7/25/2000	8/31/2010	Casing patch	3738	Set tubing plug at 7151'	Casing patch replacement	Casing patch seal leaking
SS8	11/17/2003	8/31/2006	Casing	8100	Set tubing plug at 8542'	Set straddle packer casing patch	Unknown
F9	7/10/2008	5/7/2009	Casing	1900	Killed well	Plugged and abandoned	Unknown
FF32F	9/23/2009	11/6/2009	Casing patch	2001	Set tubing plug at 7050'	Innerstring installation	Casing patch seal leaking
P26C	10/12/2009	11/6/2009	Casing patch	1684	Killed well	Casing patch replacement	Casing patch seal leaking
P50A	7/16/2010	7/16/2010	Casing	1020	Closed sliding sleeve	Cement squeeze & innerstring installation	Casing inspection log indicates corrosior
SS8	8/12/2010	10/29/2010	Casing patch	8100	Killed well	Cement plugback	Straddle packer leaking
P26E	8/1/2011	11/4/2013	Stage collar	2943	Killed well	Plugged and isolated, repair tbd	Stage collar port leaking
P26C	8/11/2011	9/29/2011	Casing shoe	7819	Killed well	Cement squeeze	Insufficient cement integrity
P32D	8/16/2011	6/26/2012	Stage collar	3011	Closed sliding sleeve	Convert to tubing flow	Stage collar port leaking
SS10	5/26/2012	6/26/2012	Casing patch	4492	Set tubing plug at 7916'	Casing patch replacement	Casing patch seal leaking
FF32C	10/8/2012	4/20/2016	Casing patch	3738	Killed well	Cemented innerstring installation	Casing patch seal leaking
MA5A	5/7/2013	5/7/2013	Casing patch	1880	Set tubing plug at 7176'	Plugged and abandoned	Straddle packer leaking
FF32D	10/14/2013	10/16/2013	Casing	6313	Set tubing plug at 7010'	Cement squeeze & plugback	Casing inspection log indicates corrosion
SS44A	10/15/2013	10/16/2013	Casing	17	Killed well	Plugged and isolated, repair tbd	TBD
P50A	5/3/2014	5/7/2014	Innerstring	1020	Set tubing plug at 6848'	Plugged and abandoned	Unknown
P42B	5/19/2014	6/19/2014	Casing	7200	Killed well	Patched by liner top extension	Unknown
SS25	10/23/2015	2/18/2016	TBD	TBD	Relief well	TBD	TBD
P42B	11/10/2015	1/21/2016	Casing	7200	Killed well	Plugged and isolated	Unknown

WSO - Water Shut Off

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well Frew #3, Sec. 29, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-00666 Name J. W. Gourley (Person submitting report) Title Agent (President, Secretary or Agent)
Date July 1, 19 86

Signature N.W. Buss for J.W. Gourley 7/11/86

Box 3249, Terminal Annex, Los Angeles, CA 90051 (213) 689-3925
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	GWO No. 90315 was issued to repair casing leak and run 5-1/2" inner string
1986	
1-28	Moved CPS Rig #M-72 from IW #62 to Frew #3. Installed back pressure valve in doughnut. Removed xmas tree. Installed BOPE and tested with water as follows: blind rams 3000 psi for 20 minutes, pipe rams 3000 psi for 20 minutes, Hydril 2300 psi for 20 minutes, choke manifold 3000 psi for 20 minutes. Test witnessed by Stephen Mulqueen with the D.O.G. Removed back pressure valve from doughnut and secured well.
1-29	Pumped 120 bbls. of 63#/cu.ft. 40 viscosity polymer fluid down tubing. No returns. Mixed 80 bbls. of 63#/cu.ft. 200 viscosity polymer fluid and pumped down annulus between 7" casing and 2-7/8" tubing. Using wireline, ran free point to No-Go nipple at 7640'. Made chemical cut at 7599', leaving one 10' x 2-7/8" cutoff, one Otis annular flow safety system, one 2-7/8" x 20' blast joint, one 2-7/8" x 1.79" No-Go nipple with blanking plug in place, one 2-7/8" x 10' Otis blast joint, one 2-7/8" Otis latch with seals and production tube in well. Pulled out with tubing and 20' cutoff. Ran 6-1/8" bit on 2-7/8" tubing to 7579' without interference. Started out with bit.
1-30	Pulled out of well with bit. Ran 60-arm internal caliper tool from 7549' to surface. Found large hole in casing at 3240' in body of joint.
1-31	Using wireline, ran segmented electronic casing inspection log from 0'-7571'. Showed hole in casing at 3240'. Ran retrievable packer to 3286' and pressure tested casing below tool 1000 psi for 15 minutes. Reset retainer and set at 3226' and pressure tested annulus 1000 psi for 15 minutes. Pulled out of well with retainer. Ran retrievable bridge plug on 2-7/8" tubing to 3286' and set.

1986

2-1 Displaced 63#/cu.ft. polymer completion fluid from well with 140 bbls. of 5% KCl water. Spotted 3 sacks of sand on retrievable bridge plug at 3286'. Ran 7" retrievable squeeze packer on 2-7/8" tubing to 3027'. Mixed 100 cu.ft. of Class "G" cement with 3% CaCl and displaced 88 cu.ft. out hole at 3240' before reaching 1250 psi shut-in pressure. Released retainer and backscuttled well. Reset retainer and pressured cement for night.

2-3 Bled off well. Pressure tested squeeze to 1100 psi for 5 minutes. Released retainer. Pulled out of well. Made up 6-1/8" bit on drill collars and located cement at 3134'. Drilled out hard cement to 3248'. Circulated hole clean. Pressure tested casing, at 200 psi pumping 8 cu.ft. per minute. Circulated well. Picked up and set packer at 3029'.

2-4 Mixed 100 cu.ft. of Class "G" cement with 10% CalSeal and displaced 59 cu.ft. out hole at 3240' before reaching 1200 psi final pressure. Backscuttled tubing and reset packer; pressured below retainer for 4 hours. Released retainer and pulled out of well. Made up 6-1/4" bit on drilling assembly and started in well.

2-5 Drilled cement from 3060' to 3242'. Pressure tested hole at 3240' to 1000 psi for 15 minutes. Displaced 120 bbls. of KCl water with 120 bbls. of 63#/cu.ft. polymer completion fluid. Pulled out of well with bit. Ran retrieving tool for bridge plug to 3286'. Attached to plug and pulled out of well. Removed 9" BOPE and 11" x 9" 5000 psi tubing head. Installed new 11" x 11" 5000 psi spool head. Reinstalled 9" BOPE and pressure tested seals at 500 psi.

2-6 Made up 2-7/8" overshot on hydraulic jars, bumper sub and two 4-3/4" O.D. drill collars. Ran to 7599' and attached to fish. Pulled out of well. Retrieved all of fish. Secured well.

2-7 Laid down 2-7/8" tubing. Made up Otis 2-7/8" x 5-1/2" FL-4S seal assembly on one joint of 5-1/2" N-80 20# casing and ran in well, hydrotesting the casing to Otis 7" packer at 7650'.

1986

2-8 Attached to packer at 7650', and pulled 20,000# over casing weight to check latch. Released from packer and displaced 80 bbls. of double inhibited 65#/cu.ft. polymer completion fluid between 5-1/2" casing and 7" casing. Released from latch and installed slips in 11" spool head with 40,000# weight on latch. Installed 5-1/2" retrievable bridge plug in casing. Cut off excess casing. Installed 11" x 11" x 5-1/2" PS seal flange. Installed 11" x 9" x 5000 psi tubing head. Reinstalled BOPE with 2-3/8" rams. Pressure tested seals and BOPE. Pulled retrievable bridge plug from well. Started in well picking up 2-3/8" tubing string.

2-10 Rigged up wireline truck. Ran in well with Baker 5-1/2" Model "F-1" retainer production packer and set at 7630'. Finished running in well, picking up 2-3/8" tubing. Stabbed into packer with 2-3/8" tubing string. Pressure tested annulus to 1500 psi. Measured out of well and ran in kill string.

2-11 Made up one 2-3/8" Baker latch seal assembly with 2 seal units, one joint 2-3/8" tubing, Otis type XN 2-3/8" x 1.79" No-Go nipple, one joint 2-3/8" tubing, BST type MMA 2-3/8" gas lift mandrel with 1.5R dummy plug. Hydrotested tubing string at 5000 psi. Spaced out and latched into packer. Pulled 20,000# over weight of tubing. Landed tubing on doughnut with 6,000# on packer. Changed well over to 2% KCl water. Installed back pressure valve. Removed BOPE. Installed xmas tree. Pressure tested xmas tree to 5000 psi. Released rig at 5:00 p.m., 2-11-86.

SR

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern Calif. Gas Co. Field Aliso Canyon County L.A.
Well Frew #4, Sec. 29, T 3N, R 16W S.B.B. & M.
A.P.I. No. #037-00667 Name R.W. Weibel (Person submitting report) Title Agent (President, Secretary or Agent)
Date Sept. 26, 1988

Signature N.W. Buss 1/3/89
N.W. Buss for R.W. Weibel

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (213) 689-3951
(Address) (Telephone Number)

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Date	
	GWO No: 91637: was issued to install protective innerstring
1988	
8-31 to 9-2	Rigged up. Removed xmas tree. Installed and tested BOPE. Mr. Stephen Mulqueen of the DOG witnessed test. Pulled 2-7/8" tubing.
9-3	Ran in well with 6-5/8" bit and casing scraper to packer at 8228'. Backscuttled well clean. Set bridge plug at 8205'. Pressure tested casing to 2000 psi for 20 minutes-OK.
9-5	HOLIDAY
9-6	Set bridge plug at 1000'. Removed 13-5/8" x 8" 5000 psi tubing head. Installed 13-5/8" x 13-5/8" 5000 psi inner-string landing spool.
9-7	Tested innerstring landing spool to 1000 psi for 20 minutes-OK. Unloaded well to 940' with nitrogen. Shooting flange leaked at threads.

OG103 (3/86/DWRR/5M)

9-8 Ran noise log from 950' to surface with 875 psi nitrogen in casing. Found leak in first collar at 32'. Recovered bridge plugs at 1000'and 8205'. Made up test seals on 2-7/8" tubing.

9-9 Pressure tested seals and packer at 8224' for 20 minutes - OK.

9-10 Rig idle, waiting for casing.

9-12 Changed pipe rams to 5-1/2". Rigged up and ran 5-1/2" 20# innerstring, hydrotesting to 4000 psi and monitoring torque makeup. Ran to 4400'.

9-13 Continued running 5-1/2". Shut rig down for repairs.

9-14 Rig shut down for repairs.

9-15 Finished running innerstring and latched into packer at 8224'. Pulled 20,000# over weight. With 20,000# on packer, tested at 1500 psi for 15 minutes (tested ok). Set bridge plug at 300', tested plug at 1000 psi (tested ok).

9-16 Lifted BOPE and installed slips on 5-1/2" casing with 20,000# on packer, 146,000# in slips. Installed packing, 13-5/8" x 13-5/8" x 5-1/2" 5000 psi seal flange, and tubing head. Reinstalled BOPE. Retrieved bridge plug from 300'. Set Otis AWB 5-1/2" packer at 8160' with wireline.

9-17 Ran 2-3/8" 4.7# 8rd EUE N-80 tubing, hydrotesting to 4000 psi. Latched into packer at 8160'. Spaced out and pulled 20,000# over weight. Landed with 10,000# on packer, testing at 1500 psi for 15 minutes. Removed BOPE and installed 8-1/2" xmas tree.

9-19 Tested seal flange, tubing head and xmas tree at 5000 psi-OK. Released rig at 11:00 A.M.

ALISO CYN FILE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company Field: Aliso Canyon County: Los Angeles
Well: Frew 9 Surface Location: Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 037-00672 Todd Van de Putte Title: Senior Storage Field
(President, Secretary, or Agent)

Date: 11/10/2009 Signature: Todd R Van de Putte
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-700-3309

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Start Date	Ops. DOGGR Rpt
5/7/2009	Opened the well with 1800 psig tubing and 1300 psig casing pressure. Pumped 40 bbls hi-vis HEC polymer and displaced with 50 bbls 3% KCL. (no communication between the tubing and casing) Bled down the casing and filled the tubing/casing annulus with 150 bbls. Rigged up the KT&W wire line and ran in the well with a tubing punch to 8350'. Attempted to punch hole in the 2-7/8" tubing (Stuck tools) and dropped the cutter bar. Pulled out of the well with wireline. Rigged up to fish the tools. Secured the well.
5/8/2009	Rigged up the KT&W wireline unit and made up 1-3/4" tools with JDC. Ran in the well to 8266', latched tools and jarred on the fish (Sheared off the tools). Rigged down the KT&W slickline unit. Rigged up the Western Wire line unit and ran in the well with the perforating gun to 8249'. Shot (8) eight, 0.23" holes from 8249' to 8247'. Rigged down the wireline unit. Filled the well with 11 bbl (3% KCl brine). Secured the well.
5/11/2009	Rigged up and circulated out an oil pad (140 bbls water and oil). Circulated 220 bbls. Rigged up and spotted a 4 bbl diesel pill. Rigged up the Western Wireline unit and made up a 2" JDC on 1-3/4" tools. Ran in the well to 8300', latched the fish, and jarred the fish loose. Pulled out of the hole and rigged down the wireline unit. Installed the BPV and nippled down the production tree. Nippled up the Class III 5M BOPE. Secured the well.
5/12/2009	Nippled up the Class III 5M BOPE. Rigged up the BOPE test unit and tested the blind rams to 5000 psig for twenty minutes and the pipe rams to 5000 psig (pipe rams would not hold). Wait on new ram blocks. Changed out the pipe rams and tested the pipe rams to 5000 psig. Tested the Hydril annular preventer to 3500 psig. Tested the choke manifold and all control vavles to 5000 psig. (S Fields DOGGR waived witness of BOP test). Secured the well.
5/13/2009	Filled well with 16 bbls of KCl brine. Backed out the hold down studs and unlanded the 2-7/8" tubing with 40,000 lbs. Worked the tubing and attempted to release from the Baker Retrievea-D packer at 8490'. Rigged up the Western wireline unit and made up a chemical cutter with (2) cannisters. Ran in the well to 8475' and attempted to cut in the blast joint (did not cut). Pulled out of the hole with the wireline unit. Worked the 2-7/8" tubing and attempted to pull free. Made up the chemical cutter and ran in the well to 8428' and cut the 2-7/8" tubing. Rigged down wireline unit and circulated 30 bbls of KCl brine. Pulled out of the well and laid down the 2-7/8" tubing/production string to 7500'. Secured the well.
5/14/2009	Filled the well with 2 bbls of KCl brine. Pulled out of the well and laid down the 2-7/8" tubing and production equipment. Shut down the rig, the generator failed. Ran the 2-7/8" tubing kill string to 2800'. Secured the well.
5/18/2009	Filled the well with 20 bbl, 3% KCl. Pulled out of the well and laid down the 2-7/8" tubing and production equipment. (Laid down 266 joints of 2-7/8" J-55/N-80 tubing, 20' cut off and 5 gas lift mandrels). Measured and picked up (3) joints of 5-3/4" wash pipe with a reverse saw-tooth shoe, and bumper sub and (4) 4-3/4" drill collars. Measured and picked up the 2-7/8" L-80 tubing. Ran in the well and tagged/stacked out at 2060'. Pulled 20,000 lb over the string weight to pull free. Attempted to work through the tight spot at 2060', no success. Secured the well.
5/19/2009	Filled the well with 2 bbl of 3% KCl. Pulled out of the well and laid down the 5-3/4" wash pipe and the drive sub. The 5-3/4" wash pipe shoe had scrapes on opposing sides of the pipe, same length of scrape. Made up a 6" impression block and ran in the well to 2060'. Sat down and pulled out of well. Laid down the 6" IB (IB oval 5-3/4"). Made up a 6" swedge, long stroke bumper sub, jars, (4) 4-3/4" drill collars and an intensifer. Ran in the well to 2060' and swedged the bad spot in the 7" production casing at 2060'. Made 4' of progress and still pulled tight through the bad spot. Secured the well.
5/20/2009	Filled the well with 2 bbls. Pulled out of the well and laid down the 6" swedge and made up a 5-1/2" swedge , jars, bumper sub, (6) 4-3/4" drill collars and an intensifer. Ran in the well to 2060' measured and picked up 2-7/8" tubing to 3000' (did not take weight thru bad spot). Pulled out of the well and made up a 5-3/4" swedge and ran in the well to 2500' (did not take weight through the bad spot). Pulled out of the well and made up a 5-7/8" swedge and ran in the well to 1900'. Secured the well.
5/21/2009	Worked the 5-7/8" swedge through the tight spot at 2060'. Pulled out of the well and laid down the 5-7/8" swedge. Picked up a 6" swedge and ran in the well to 2060'. Swedged through the tight spot in the 7" production casing at 2060' (Pulling 60,000lb over string weight). Secured the well.
5/22/2009	Worked through the tight spot at 2060' with a 6" swedge (24,000lb over pull). Turned the pipe 1/4 turn and swedged through the tight spot (64,000lb over pull). Secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company Field: Aliso Canyon County: Los Angeles
Well: Frew 9 Surface Location: Sec. 29 T 3N R 16W S.B.M.
A.P.I. No. 037-00672 Todd Van de Putte Title: Senior Storage Field

(President, Secretary, or Agent)

Date: 11/10/2009 Signature: Todd VanDePutte

(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-700-3309

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Start Date	Ops. DOGGR Rpt
5/26/2009	Pulled out of the well and laid down the 6" swedge (swedge calipered at 5-7/8" OD) Rigged up the Baker Atlas wireline unit and made up the Minimum ID Tool. Ran in the well to 3000' and logged to surface (2096' 6"ID, 2064' to 2060' 5.85"ID) Made up a Mirco-Vertilog Tool and ran in the well to 2060'. Tool stopped at 2060'. Logged from 2060' to surface, rigged down the Baker Atlas wireline unit. Ran in the well with 2-7/8" tubing kill string to 2900' and secured the well.
5/27/2009	Pulled out of the well with the 2-7/8" kill string. Waited on the Baker Atlas wireline unit. Made up the 5-3/4" wash pipe and the bumper sub. Ran in the well to 2060' (unable to go deeper with 5-3/4" wash pipe). Pulled out of the well and stood back the wash pipe. Ran in the well to 2900' with a kill string and secured the well.
5/28/2009	Laid down the 5-3/4" wash pipe and made up a 5-1/2" shoe. Measured and picked up (3) joints of 5-1/2" wash pipe and a bumper sub. Ran in the well to 2060' (worked through the tight spot pulling 5000lb over string weight). Measured and picked up 2-7/8" tubing to 4650'. Pulled out of the well and stood back the wash pipe. Ran in the well with tubing kill string to 2900'.
5/29/2009	Pulled the 2-7/8" kill string out of the well. Rigged up the Baker Atlas wire line unit and associated equipment. Made up the 40 arm multi-finger caliper imagining tool, ran in the well to 8429' and logged to surface. Rigged down the Baker Atlas wire line unit. Ran in the well with the 2-7/8" kill string to 2900'. Secured the well.
6/1/2009	Pulled out of the well with the 2-7/8" kill string. Made up a 5-1/2" shoe, (3) joints of 5-1/2" wash pipe, a bumper sub, jars, and (6) 4-3/4" drill collars. Ran in the well to 4650'. Measured and picked up 2-7/8" tubing to the top of the fish at 8428'. Worked over the fish to 8434' and nippled up the PGSR. Cleaned out fill to the top of the packer at 8490' and circulated the well clean. Pulled to 8416' and secured the well.
6/2/2009	Ran in the well to the top of the packer at 8490'. No fill found. Pulled out of the well and laid down the 5-1/2" wash pipe. Made up a 5-3/4" over shot with a 2.875" grapple, a bumper sub, jars, (4) 4-3/4" drill collars and an intensifier. Ran in the well to the top of tubing stub at 8428' and worked over the stub. Attempted to release from the Retreivea D packer at 8490' and came free. Pulled out of the well to 5000' and secured the well.
6/3/2009	Pulled out of the well and laid down the fish (recovered 2-7/8" tubing cut off, Camco safety valve, and 15' of cut off blast joint). Made up a 5-3/4" over shot with a 3-5/8" grapple, a bumper sub, a set of jars, (4) 4-3/4" drill collars, and an intensifier. Ran in the well to 8482' and engaged the tubing stub/packer and attempted to release from the packer. The workstring came free and pulled out of the well to 6000'. The tubing was pulling wet. Secured the well.
6/4/2009	Pulled out of the well and laid down the fish. Recovered the cut off blast joint, 1 blast joint and the locator latch. The seal assembly was left in the well. Ran in the well with the 2-7/8" kill string to 2950' and secured the well.
6/5/2009	Pulled out of the well with the 2-7/8" kill string. Made up a tapered tap and ran in well to 8490' and attempted to retrieve the latch. Pulled out of the well with no recovery marks on the tap. Made up a 5" magnet and ran in the well to 3500'. Secured the well.
6/8/2009	Filled the well with 11 bbl of 3% KCl. Ran in the well with the magnet to 8490'. Pulled out of the well with no recovery. Made up 10' of 2-1/4"OD extension, and a bumper sub. Ran in the well to 8490' and ran through the bore of the seals. Pulled out of the well to 6000' and secured the well.
6/9/2009	Filled well with 1 bbl of 3% KCl. Pulled out of the well and laid down the 10' of 2-1/4" drill rods and the bumper sub. Made up a spear with 2.438" grapple and a bumper sub. Ran in the well to 8000' and took a gas kick. Circulated out the gas and killed the well. Ran in the well to 8490', engaged the seal assembly attempted to work free. Pulled out of the well to 7000'. Secured the well.
6/10/2009	Pulled out of the well with the spear with no recovery. Ran in the well with a 2-7/8" kill string and secured the well.
6/11/2009	Pulled out of the well with a 2-7/8" kill string and made up a 4-1/16" mill, and (2) 4-3/4" drill collars. Ran in the well to 8490' and nippled up a PGSR. Picked up a power swivel and milled out the latch assembly (made 6"). Laid down the power swivel and nippled down the power swivel. Pulled out of the well to 5000' and secured the well.
6/12/2009	Pulled out of the well and laid down the mill. Made up a spear with a 2.375" grapple, bumper sub, and tubing jars. Ran in the well to 8490' and engaged the seals. Jarred on the fish (Made 2' and the jars wore out). Released from the fish, pulled out of the well to 6000' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company Field: Aliso Canyon County: Los Angeles
Well: Frew 9 Surface Location: Sec. 29 T 3N R 16W S.B.M.
A.P.I. No. 037-00672 Todd Van de Putte Title: Senior Storage Field
(President, Secretary, or Agent)

Date: 11/10/2009 Signature: Todd K Van de Putte
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-700-3309

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Start Date	Ops. DOGGR Rpt
6/15/2009	Pulled out of the well with the 2-7/8" work string and found a small piece of grapple missing. Made up a new spear and ran in the well. Took a gas kick, rigged up and circulated out the gas bubble with 149 bbls of 3% KCl. Continued running in the well to 6811', took a gas kick, rigged up and circulated the gas out with 242 bbl of 3% KCl. Bled down the surface casing pressure and continued running in the well to 8405'. Secured the well.
6/16/2009	The casing began flowing back. Rigged up and circulated 174 bbl of 3% KCl. Lost 20 bbls to the well. The hole stood full after killing the well. Ran in the well, engaged the spear in the packer at 8500' and began jarring at 110,000lbs. After 8 hits with the jars, the packer sheared out. The well began flowing. Circulated 263 bbls of 3% KCl and killed the well. Ran in the well and tagged at 8757', the bottom 55' of perforations covered below the packer. Stuck the packer in the perforated interval and released the grapple. Pulled out of the well to 2953' and secured the well.
6/17/2009	The well flowed back and reverse circulated 90 bbls 3% KCl brine. The well continued to flow and pumped 94 bbls. down the tubing. Lost 21 bbls to the well. Pulled out of the well and well slightly flowed back. Ran in the well with a Baker inflatable packer, a 6', 2-7/8" pup, 1 jt, 2-7/8" tubing, XN nipple, 1 jt, 2-7/8" tubing, a sliding sleeve, and 2-7/8" tubing to surface. Took a gas kick and reverse circulated 90 bbls of 3% KCl. Pumped 54 bbls down the 2-7/8" tubing and continued running in the completion equipment in the hole. Took a gas kick and reverse circulated 60 bbl 3% KCl brine and pumped 20 bbl. down the tubing. Secured the well.
6/18/2009	Opened the well with 0 psig tubing and casing pressure. Filled the well with 14 bbls of 3% KCl brine. Spaced out the completion string and landed in the tubing hanger at 8500'. Rigged up K T&W wire line, made up a sliding sleeve shifting tool and ran in the well to 8430'. Closed the sliding sleeve and rigged down the wireline unit. Dropped the ball at 12:45pm. Waited 45 minutes and pumped down the 2-7/8" tubing with full returns. Rigged up the wireline until and ran in the well to 8430'. Checked the sliding sleeve and attempted to pressure the tubing. Full returns to surface. Checked the shifting tools (ran the wrong shifting tools). Made up the new shifting tools, ran in the well and shifted the sliding sleeve. Set the packer with 1500 psig and blew the ball at 2200 psig. Secured the well.
6/19/2009	Opened the well with 0 psig tubing and casing pressure. Removed the working floor and installed the back pressure plug in the tubing hanger. Nippled down the Class III 5M BOPE and nippled up and tested the production tree. Rigged down the hoist and rigged down and loaded out the rig and associated equipment.
6/22/2009	Loaded the rig equipment and moved Key #447 to the P-32 site. Installed the Frew 9 laterals, the cellar guard rails and cleaned the location.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
3/26/2015	Moved the Rival Rig #12 and associated rig equipment to Frew 9. Spotted two 500 bbl tanks, pump, tank and the BOPE equipment. Raised the mast. The well had 50 psig on the tubing and the casing. Shot fluid levels. Tubing fluid leval at 472' and casing fluid at 756'.
3/27/2015	Opened the well and bled 50 psig from the tubing and the casing. Circulated the well with 8.6 ppg KCl brine at 2.5 bpm at 700 psig. Moved in and rigged up the Carbon Slickline unit. Made up a 2.30" gauge ring on wireline and ran in the well to the PXN plug at 8455'. Ran in the well with the SB pulling tool and latched onto the prong at 8455'. Pulled off several times and pulled out of the well with no recovery. Ran in the well with a JDC pulling tool, latched onto the prong at 8455' and jarred the prong free. Pulled out of well with the prong with no pressure on the well. Rigged down and moved out the Carbon wireline unit.
3/30/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Installed the BPV and rigged down the production tree. Installed the 10' x 2-7/8" pup joint and the safety valve. Rigged up the crossover spool and the 11" 5M Class III BOPE. Shot fluid levels. Tubing was at 598' and the casing was at 787'. Pressure tested the BOPE and the safety valves at 300 psig (low) and 5000 psig (high) for 20 minutes each recording each test on a chart. Pressure tested the blind rams, the pipe rams, the choke, the valves and the 2" kill line. Scheduled the BOPE inspection with Mr Ernie Blevins, DOGGR.
3/31/2015	Finished pressure testing the Class III 5M BOPE to 300 psig (low) and 5000 psig (high) recording each test on a chart. Each test charted for 20 minutes. Pressure tested the 2nd 2-7/8" safety valves, the 2" and 3" valves on the BOP and the kill line check valves. Pressure tested the annular preventer to 300 psg (low) and 3500 psig (high). Backed out the tubing hanger lock screws and unlanded the completion tubing at 48 klb. Held right hand torque working the completion tubing from 42 klb to 100klb. Unable to release the Baker inflatable packer at 8495' and secured the well.
4/1/2015	Moved in and rigged up the Tiger Wireline unit. Opened the well with 0 psig surface pressrue on the tubing and the casing. Made up a 2-1/14" Jet cutter on wireline and ran in the well. Pulled tubing in 20 klb tension. Tagged the XN plug at 8455' and cut the 2-7/8" completion tubing 10' above the sliding sleeve at 8410'. Rigged down and moved out the Tiger wireline unit. Laid down the tubing hanger and pulled out of the well and laid down 182 joints of 2-7/8" L-80 completion tubing.
4/2/2015	Continued to lay down the 2-7/8" completion tubing. Shut down for 30 minutes due to high winds. Laid down a total of 259 joints of 2-7/8" tubing plus the cut off joint. Swapped out the tubing trailers. Picked up 5' x 5-3/4" shoe, two joints of 5-1/2" washpipe, a bumper sub and the tubing jars. Measured and picked up 2-7/8" P110 workstring tubing. Had 4 klb of drag from 1999' to 2059'. Stacked out, pulled 6 klb to pull free and pulled the shoe to 1989'. Filled the well with 8.6 ppg KCl brine and secured the well. Held a BOP drill while picking up the 2-7/8" workstring.
4/6/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Pulled out of the well from 1989' and laid down the 5-3/4" shoe. Made up a 5-1/2" cutlip shoe on 3 joints of 5-1/2" washpipe, a bumper sub and a set of jars on the 2-7/8" workstring. Ran in the well and took weight at 1999'. Pushed the shoe and washpipe through the tight spot (4 klb) in the 7" production casing at 2060'. Continued measuring and picking up the 2-7/8" P-110 workstring tubing to 8344' and secured the well.
4/7/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Installed the PGSR and picked up 2 joints of 2-7/8" workstring tubing. Located the cut-off joint at 8407'. Unable to rotate over the 2-7/8" completion tubing stub using the tubing tongs. Moved in and rigged up the 2.5 power swivel. Reverse circulated and rotated over the completion tubing stub with the 5-1/2" cutlip shoe. Cleaned out sand from the top of the tubing stub to the inflatable packer at 8495'. Circulated the well clean and pull the cutlip shoe to 8375'. Rigged down the power swivel. The tubing flowing back and pumped 60 bbl of 8.6 ppg KCl brine down the tubing. The well balanced. Pull out of the well to 3200' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
4/8/2015	Filled the well with 3 bbls of 8.6 ppg KCl brine. Pulled out of the well from 3200' (2 klb of drag from 2060' to 1999)'. Laid down 1 joint of 5-1/2" washpipe. Made up an 5-9/16" HE Cutter, a 5-1/2" cutlip shoe on 2 joints of 5-1/2" washpipe on the 2-7/8" workstring. Ran in the well to 1999' (2-3 klb of drag through the tight spot from 1999' to 2060'). Ran in the well to 8407'. Attempted to rotate over the tubing stub with the tubing tongs with no success. Installeded the PGSR, rigged up the power swivel ans secured well with the cutlip shoe hanging at 8387'.
4/9/2015	Picked up the power swivel and one joint of 2-7/8" workstring tubing. Rotated over the tubing stub at 8410'. Pick up 2 additional joints and worked over the tubing stub to 8475'. Picked up 25' to locate the collar below the XN Profile sub. Cut the 2-7/8" production tubing at 8463'. The well went on a vacuum and rigged down the power swivel. Filled the well with 4 bbls of 8.6 ppg KCl brine. Pulled out of the well from 4150'. Circulated the gas cut brine out of the well with 153 bbl of 8.6 ppg KCl brine. Pulled out of the well and laid down the tubing and the wash pipe down. Recovered the cut joint, the sliding sleeve, one joint, XN profile and 3' of tubing (53' overall). Made up a 5-9/16" overshot with a 2-7/8" RH grapple,a bumper sub and jars on the 2-7/8" workstring. Ran in the well to 3566' and secured the well.
4/10/2015	Continued running in the well with a 5-9/16" overshot from 3566'. Installed the safety valve and power swivel. Caught 2-7/8" stub at 8468' and worked the tubing to the right, releasing the 7" Baker inflatable packer at 8495'. Pulled the 7" packer to 7195' and secured the well.
4/13/2015	Filled the well with 6 bbl of 8.6 ppg KCl brine. Pulled out of the well with the 7" inflatable packer from 7195'. Laid down the packer and the fishing tools. Rabbitted and picked up 20 joints of 2-7/8" workstring tubing with a sawtooth collar. Ran in the well and tagged fill at 8602'. Broke circulation, pulled up the well to 8434' and secured the well.
4/14/2015	Ran in the well from 8434' and cleaned out fill from 8602' to the top of the Retrieva D packer at 8767'. Reverse circulated the well clean with 50% returns. Pulled to 8464' and secured the well. Reported the clean out depth of 8767' to Kris Gustafson, DOGGR.
4/15/2015	Ran in the well from 8464' and tagged at 8767' (Tag waived by Kris Gustafson, DOGGR). Circulated bottoms up with 265 bbl of 8.6 ppg KCl binre. Moved in and rigged up the HES cemening equipment. Held safety meeting with Halliburton to pump cement. Pressure tested the lines to 2000 psig. With the tubing tail at 8767', pumped 5 bbl of fresh water, 14.5 bbls of 14.8 ppg Class G cement with 35% BWOC silica flour, 5% BWOC Microlite, 0.5% BWOC Halad-322, 0.25% BWOC Super CBL and 0.02 gps SCR-100L. Displaced with 1 bbl of fresh water spacer and 46 bbls of 8.6 ppg KCl brine. CIP at 3:30 pm. Pulled the tubing tail to 8389' and reverse circulated 87 bbl (tbg vol 48 bbls) to get slight show of cement to the surface. Rigged up Halliburton. Re-tested lines to 2000 psig. With the tubing tail at 8389', pumped 5 bbl of fresh water, 14.5 bbls of 14.8 ppg Class G cement with 35% BWOC silica flour, 5% BWOC Microlite, 0.5% BWOC Halad-322, 0.25% BWOC Super CBL and 0.02 gps SCR-100L. Displaced with 1 bbl of fresh water spacer and 44 bbl of 8.6 ppg KCl brine. CIP at 5 pm. Pulled the tubing tail to 7950' and reverse circulated 84 bbl of KCl brine with a slight show of cement at the surface. Pulled 10 stands to 7318' ans secured the well.
4/16/2015	Ran in the well from 7318' and tagged the cement plug at 8057' (Tag witnessed by Cliff Knight, DOGGR). Filled the well with 3 bbl of 8.6 ppg KCl brine. Bled off the pressure from the 10-3/4" x 7" annulus from 142 psig down to 8 psig. Pressured tested the 7" production casing to 200 psig with 6.5 bbls of KCl brine. The 10-3/4" x 7" annulus pressure increased from 8 psig to 197 psig. Shut the pump down and the 7" casing bled to 0 psig. Pulled out of the well from 8057'. Made up a 7" casing scraper pinned to 5.75" max on the 2-7/8" workstring and ran in the well. Very little drag through the tight spot in the 7" production casing at 2060'. The bumper sub fell open after passing the tight spot at 2060'. Continued running in the well with the 7" casing scraper. Tagged the cement plug at 8057'. Pulled to 8050' and circulated the well clean with 300 bbl of 8.6 ppg KCl brine. Pulled the tubing to 7612' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
4/17/2015	Opened the well with 0 psig surface pressure on the tubnig and the casing. Pulled out of the well from 7612' with the 7" casing scraper. Made up a 5-3/4" o.d. by 5.5' long shoe and a bumper sub on the 2-7/8" workstring. Ran in the well to gauge the tight spot at 2060'. 3 klb was required to push and pull through. Ran in the well to 2243', pulled to 1931' and secured the well..
4/20/2015	Filled the well with 3 bbl of 8.6 ppg KCl brine. Pulled out of the well from 1931' and laid down the 5-3/4" shoe. Installed a shooting flange. Moved in and rigged up the Schlumberger wireline unit to run USIT log. Picked up the USIT logging tools minus the source. Made a dummy run through the tight spot at 2060' down to 2150' and pulled to the surface. Ran in the well to 8050' with the USIT tools and logged the well to the surface. Rigged down and moved out the Schlumberger wireline unit. Made up a 7" Lok-Set test packer on the 2-7/8" workstring. Ran in the well to 706' and pressure tested the 7" casing from 706' to the surface at 500 psig for 5 minutes (Test Good). Ran in the well to 1913' and secured the well.
4/21/2015	Set the 7" test packer at 1910'. Pressure tested the tubing x 7" casing annulus to surface. Brine pumped away at 50 psig surface pressure. Lowered the 7" test packer to 2100' and pressure tested the 7" casing below the test packer from 2100' to 8057' (Pumped brine away at 50 psig). Lowered the 7" test packer to 2223' and pressure tested the 7" casing from 2223' to 8057' (Pumped brine away at 50 psig surface pressure). Lowered the 7" test packer to 5136' and pressure tested the 7" casing from 5136' to 8057' to 500 psig surface pressure (Lost 100 psig). Pulled the 7" test packer to 3680' and pressure tested the 7" casing from 3680' to 8057' to 500 psi surface pressure (Lost 85 psig). Pulled the test packer to 2919' and pressure tested the 7" casing from 2919' to 8057' to 500 psig surface pressure (Lost 55 psig). Pulled the test packer to 2541' and pressure tested the 7" casing from 2541' to 8057' to 500 psig (Lost 25 psig). Pulled the 7" test packer to 2351' and pressure tested the 7" casing from 2351' (Pumped brine away at 4.3 bpm at 410 psig surface pressure). Lowered the 7" test packer to 2415' (Pumped brine away). Lowered the test packer to 2478' and pressure tested the 7" casing from 2478' to 8057' to 490 psig surface pressure (Lost 12 psig in 6 minutes). Pulled the test packer to 2447' and pumped away brine at 390 psig. Pulled the 7" test packer through the tight spot at 2060'. Pulled to 1975' and secured the well. All pressure tests held for 15 minutes and recorded on a test chart. The 7" production casing held pressure below 2478'.
4/22/2015	Set the 7" test packer at 2478' and pressure tested the 7" production casing from 2478' to 8057' to 500 psi (Lost 70 psig in 15 minutes). Ran in the hole to 6556' and pressure tested the 7" casing from 6556' to 8057 to 500 psig surface pressure for 15 minutes (Lost 9 psig). Pulled the test packer to 6305' and pressure tested the 7" casing from 6305' to 8057' to 512 psig (Lost 7 psig in 15 minutes). WSO holes at 6281'. Moved the test packer to 6242' and pressure tested to 8057' at 512 psig (Lost 7 psig in 15 minutes). Moved the test packer to 5674' and pressrue tested from 5674' to 8057' at 494 psig for 15 minutes (Lost 6 psig). Pulled the test packer to 5357' and pressured tested the 7" casing from 5357' to 8057' to 497 psig surface pressure (Lost 6 psig in 6 minutes). Pulled the test packer to 5105' and pressure tested the 7" casing from 5105' to 8057' to 514 psig (Lost 7 psig). Pulled above the tight spot in the 7" casing at 2060' and secured the well.
4/23/2015	Filled the well with 3 bbls of 8.5 ppg KCl brine. Ran in the well with the 7" test packer to 3652'. Pressure tested the 7" casing from 3652' to 8057' at 500 psig for 15 minutes (Lost 10 psig; Good test). Pulled to 2477' and pressure tested the 7" casing from 2477' to 8057' at 500 psig for 15 minutes (Lost 7 psig; Good test). Pulled to 1276' and pressure tested from 1276' to the surface at 500 psig for 15 minutes (Lost 3 psig; Good test). Lowered the test packer to 1591' and pressure tested from 1591' to the surface at 531 psig (Lost 3 psi in 5 minutes). Lowered the test packer to 1782' and pressure tested from 1782' to the surface at 550 psig for one minute (Good test) Lowered the test packer to 1845' and pressure tested the 7" casing to 550 psig (Good test). Lowered the test packer to 1878' and attempted to pressure test the 7" casing from 1878' to surface. Pumped brine away at 250 psig. Pulled out of the well and laid the down the 7" test packer. Made up a 2-7/8" saw tooth collar on the 2-7/8" workstring. Ran in the well to 7919' and secured the well. (Good casing test from 1845' to surface. Good casing test from 2478' to 8057).

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
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Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
4/24/2015	Ran in the well and tagged the cement plug at 8057'. Circulated the well clean. Moved in and rigged up the HES cementing equipment. Pressure tested the lines to 2500 psig. Pumped 5 bbl of fresh water ahead followed by 17-1/2 bbl of 14.8 ppg, Class G cement with 0.25% Super CBL, 0.03 Gal SCR-100L, 35% SS-200, 5% Microlite and 0.50% Halad (R)-322 followed by 1 bbl of fresh water. Displaced with 42 bbl of 8.5 ppg KCl brine at 4 bpm. Cement in place at 9.25 am. Rigged down and moved out the HES cementing equipment. Pulled 10 stands to 7410' and reverse circulated two tubing volumes. Recovered a small amount of cement. Pulled an additional 10 stands to 6783' and secured the well.
4/27/2015	Ran in the well and tagged the cement plug at 7651'. Pumped 50 bbl of 10 ppg abandonment mud (Cement tag and mudding operation witnessed by Clif Knight, DOGGR). Pulled out of the well and laid down the 2-7/8" workstring tubing to 6380'. Reverse circulated a small amount of mud. Moved in and rigged up the Halliburton cementing equipment. Pressure tested the lines to 2500 psig. With the tubing tail hanging at 6380', pumped 5 bbl of fresh water ahead followed by 16 bbl of 14.8 ppg, Class G cement with 0.25% Super CBL, 0.03 Gal SCR-100L, 35% SS-200, 5% Microlite and 0.50% Halad (R)-322 followed by 1 bbl of fresh water. Displaced with 31 bbl of 8.5 ppg KCl brine at 4 bpm. Cement in place at 1:13 pm. Pulled 10 stands to 5748' and reverse circulated two tubing volumes. Recovered a small amount of cement. Pulled to 5116' and laid down the excess 2-7/8" workstring tubing and secured the well.
4/28/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Ran in the well and tagged the cement plug at 6048'. Pumped 75 bbl of 9.6 ppg abandonment mud and displaced with 24 bblg of 8.5 ppg KCl brine. (The cement plug tag and the mudding operation witnessed by Cliff Knight, DOGGR). Laid down the excess workstring tubing to 4260' and reverse circulated the excess mud from the well. Pulled out of the well and installed a shooting flange. Moved in and rigged up the Tiger Wireline unit. Ran in the hole with a perforating gun. Log collar strip from 4550' to 4300'. Shot 8, 0.42" holes with 19 gram charges on 60 degree phasing from 4260' to 4262'. Rigged down and moved out the Tiger wireline unit. Installed a 2-7/8" drain sub and ran in hole with 10 stands of 2-7/8" tubing. Pressure tested the tubing to 2500 psig (Good test). Dropped the bar and pulled out of the well. Made up a 7" Lok-Set packer on the 2-7/8" workstring. Ran in the well to 1920' and secured the well.
4/29/2015	Ran in the well with the 7" test packer from 1920'. Had 4 klb of drag through the tight spot at 2060'. Set the 7" test packer at 4220' and attempted an injection test on the perforations in the 7" casing from 4260' - 4262'. Pressured the 7" casing to 1500 psig (Pressure dropped to 560 psig in 10 minutes and to 400 psig in 15 minutes). Moved the test packer to 4157' and pressured below the test packer to 1500 psig (Bled to 650 psig in 5 minutes and to 353 psig in 10 minutes). Pulled out of the well with the test packer. Made up a 7" cement retainer on the 2-7/8" workstring. Ran in the well to 4223', circulated 24 bbl of 8.5 ppg KCl brine through the cement retainer, set the retainer at 4223' and secured the well.
4/30/2015	Moved in and rigged up the Halliburton cementing equipment. Pressure tested the lines to 2000 psig. Stabbed out of the cement retainer and circulated the well. Stabbed into the cement retainer. Pressured the 7" casing below the cement retainer at 4223' to the perforations at 4260' to 1500 psig, pumping 1.3 bbl of 8.5 ppg KCl brine. Pressure bled to 1000 psig in 5 minutes. Bled off pressure and stabbed out of the cement retainer. Pumped 5 bbl of fresh water ahead followed by 16 bbl of 14.8 ppg, Class G cement with 0.25% Super CBL, 0.03 Gal SCR-100L, 35% SS-200, 5% Microlite and 0.50% Halad (R)-322 followed by 1 bbl of fresh water. Displaced with 7 bbl of 8.5 ppg KCl brine at 4 bpm. Stabbed into the cement retainer and squeezed 1.8 bbl of cement below the retainer at 550 psig surface pressure. Stabbed out of the cement retainer. Displaced 14 bbl of cement with 11 bbl of 8.5 ppg KCl brine. Pulled 10 stands to 3563' and reverse circulated two tubing volumes with a slight trace of cement to surface (Ernie Blevins, DOGGR, waived witnessing cement job). Pulled out of the hole and laid down the retainer running tools. Ran in the well with a saw tooth collar to 1980' and secured the well.
5/1/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Ran in the well and tagged the cement plug at 3874'. Pumped 60 bbl of 9.6 ppg abandonment mud (Tag witnessed and the abandonment mud witnessed by Cliff Knight, DOGGR). Pulled out the well and laid down the excess workstring tubing to 2590'. Reverse circulated the excess abandonment mud from the well. Pulled out of the well to 1907' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
5/4/2015	Continued to pull out of the well. Moved in and rigged up the Tiger Wireline unit. Installed a shooting flange. Made up a 4" perforating gun and ran in the well. Logged strip from 2700' to 2100'. Shot 8, 0.5" holes in the 7" casing from 2590' to 2592' with 19 gram charges on 60 degree phasing. Rigged down and moved out the Tiger wireline unit. Removed the shooting flange. Made up a 7" Lok-Set Test Packer on the 2-7/8" workstring and ran in the well. Took 6 klb to push through the tight spot at 2060'. Set the 7" test packer at 2553', filled the well and pressured down the tubing to 900 psig Pressure bled to 475 psig in 5 minutes). The 7" casing annulus and 10-3/4" surface casing annulus remained at 0 psig during the injection test. Pulled the 7" test packer out of the well. Made up a 7" cement retainer on the 2-7/8" workstring. Ran in the well, set the cement retainer at 2556' COE, and secured the well.
5/5/2015	Moved in and rigged up the Halliburton cementing equipment. Pressure tested the lines to 1250 psig. Stabbed out of the retainer. Pumped 5 bbl of fresh water ahead. Mixed16 bbl of 14.8 ppg, Class G cement with 0.25% Super CBL, 0.03 Gal SCR-100L, 35% SS-200, 5% Microlite and 0.50% Halad (R)-322. Pumped 14 bbl of cement, stabbed into the cement retainer at 2556' and squeezed an additional 2 bbl of 14.8 ppg cement at 0.5 bpm. Squeezed with 1 bbl of fresh water. Perforations locked up at 120 psig. Stabbed out of the cement retainer. Pumped 10 bbl of 8.5 ppg KCl brine to balance the remaining 14 bbl of cement above the retainer. Rigged down and moved out the Halliburton cementing equipment. Pulled out of the well and secured the well.
5/6/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Ran in the well with 2-7/8" tubing and tagged the cement plug at 2295' (Witness of the cement tag waived by Kris Gustafson, DOGGR). Moved in and rigged up the Halliburton cementing equipment. Pressure tested the lines to 2000 psig. With the tubing tail at 2294'; pumped 5 bbl of fresh water ahead, followed by 18 bbl of 14.8 ppg, Type III cement with 35% SS-200, 0.50 % CFR-3 and 0.50% Halad (R)-322, and 1 bbl of fresh water. Displaced with 7.5 bbl of 8.5 ppg KCl brine. Rigged down the Halliburton equipment. Pulled out of the well and waited on the cement 4 hours. Ran in the well with 2-7/8" tubing and tagged the cement plug at 1909'. Reverse circulated the well clean. Rigged up Halliburton cementing equipment. Pressure tested the lines to 2000 psig. With the tubing tail at 1908'; pumped 5 bbl of fresh water ahead, followed by 16 bbl of 14.8 ppg, Type III cement with 35% SS-200, 0.50 % CFR-3 and 0.50% Halad (R)-322, and 1 bbl of fresh water. Displaced with 6 bbl of 8.5 ppg KCl brine. Rigged down and moved out the Halliburton cementing equipment. Pulled out of the well and secured the well.
5/7/2015	Ran in the well and tagged the top of the cement plug at 1513' (Tag witnessed by Cliff Knight, DOGGR). Laid down the excess 2-7/8' tubing. Ran in the well with a 7" hydraulic casing cutter on the 2-7/8" workstring. Located a 7" casing collar at 1498'. Pulled the casing cutter to 1488'. Cut the 7" casing at 1488' and pulled the casing cutter out of the well. Circulated 95 bbl of 8.5 ppg KCl brine down the 7" casing with mud returns on the 7" x 10-3/4" surface casing annulus at 3.5 bpm at 0 psig surface pressure and secured the well.
5/8/2015	Rigged down the rig floor and the tubing tools. Rigged down the Class III 5M BOPE. Unbolted the tubing head DSA. Pulled the tubing head and the seal flange. Removed the top primary seal plate above the 7" casing slips. Attempted to remove the hex bolts from the packing unit in place. Negative. Picked up a 7" casing spear and pulled on the 7" casing. No movement. Laid down the 7" casing spear. Continued working on the primary seal bolts. Unable to remove the bolts. Installed the tubing head and the tree and secured the well.
5/11/2015	Opened the well with 0 psig surface pressure on the casing. Rigged down the production tree and the tubing head. Removed the wellhead packoff. Picked up a 7" casing spear and unlanded the 7" production casing at 120 klb. Removed the casing slips and lower the 7" casing back down onto the cut. Released the casing spear. Rigged up an 11" Class II BOPE and function tested same. Rigged up the working floor and the casing tools. Pulled and laid down 38 joints of 7" 23# N80 casing plus the cut casing joint. Rigged down and moved out the casing tools. Made up a 10-3/4" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to 610' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
5/12/2015	Ran in the well with the 10-3/4" casing scraper to the 7" production casing stub at 1488'. Circulated the well clean with 155 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the 10-3/4" casing scraper. Moved in and rigged the Schlumberger wireline unit. Ran the USIT log from 1488' to the surface. Rigged down and moved out the Schlumberger wireline unit. Made up a 10-3/4" test packer on the 2-7/8" workstring, ran in the well to 1414' and secured the well.
5/13/2015	Opened the well with 0 psig surface pressure on the casing. Set the 10-3/4" test packer at 1478' and filled the well with 2 bbl of 8.5 ppg KCl brine. Pumped down the tubing and below the test packer at an injection rate of 2.1 bpm at 200 psig. Pressure tested the 10-3/4" surface casing from 1478' to the surface at 500 psig for 15 minutes (Good test; recorded on test chart). Pulled out of the well and laid down the 10-3/4" test packer. Made up a 10-3/4" cement retainer on the 2-7/8" workstring. Ran in the well and set the cement retainer at 1474'. Stabbed into the retainer and pressure tested the tubing x casing annulus to 480 psig for two minutes. Pressure suddenly dropped to 0 psig with communication to the tubing. Unable to feel the retainer stinger entering or exiting the retainer. Pulled out of the well to inspect the retainer running tool. Found the stinger missing. Closed the blind rams and obtained an injection test to verify that the cement retainer was still open. Pumped 1.5 bpm at 130 psig and secured the well. (Contacted Ernie Blevins, DOGGR regarding the retainer running tool failure. Decided to run a second cement retainer in the morning on wireline).
5/14/2015	Moved in and rigged up the Tiger Wireline unit. Ran in the well with the second 10-3/4" cement retainer. Tagged existing retainer at 1474' and set the second new retainer at 1472'. Rigged down and moved out theTiger Wireline unit. Ran in the well with the retainer stab-in tool and stabbing into the cement retainer at 1272'. Pressure tested the annulus to 500 psig for 15 minutes (Recorded on a pressure chart). Moved in and rigged up the Halliburton cementing equipment. Bullheaded 1 bbl of fresh water down the tubing (SITP at 117 psig). Pressure tested the HES pump and lines to 2000 psig. Continued pumping fresh water down the tubing for an injection test at 0.9 bpm at 245 psig. Shut down and monitored the tubing pressure for 5 minutes. The pressure bled from 245 psig to 210 psig. Unstabbed from the cement retainer. Mixed and pumped 8.5 bbl of 14.8 ppg, Type III cement with 0.5% Halad (R)-322, 0.5% CFR-3, 35% SS-200, Stabbed into the cement retainer and continued pumping cement squeezing 9 bbl of cement below the retainer at 0.9 bpm at 27 psig. Unstabbed from the cement retainer. Pumped 20 bbl of the 14.8 ppg, Type III cement on top of the retainer. Displaced with 6 bbl of fresh water. Pulled the tubing to 972' and reverse circulated the well clean. Pulled out of the hole and secured the well. (Injection test and cement job witnessed by Cliff Knight,DOGGR).
5/15/2015	Opened the well with 0 psig surface pressure on the casing. Ran in the well with the 2-7/8" workstring tubing and tagged the top of the cement plug at 1347' (Tag witnessed by Cliff Knight, DOGGR). Moved in and rigged up the Halliburton cementing equipment. Pressure tested the pump and the lines to 2000 psig. Pumped 4 bbl of fresh water ahead, then mixed and pumped 44 bbl of 14.8 ppg, Type III cement with 0.5% Halad (R)-322, 0.5% CFR-3, 35% SS-200 and displaced with 5 bbl of fresh water. Laid down 14 joints of the 2-7/8" workstring tubing to 897'. Reverse circulated the well clean with a small trace of cement to the surface. Rigged up the Halliburton cementing equipment to pump cement. Mixed and pumped 46 bbl of 14.8 ppg, Type III cement with 0.5% Halad (R)-322, 0.5% CFR-3, 35% SS-200 and displaced with 2 bbl of fresh water. Laid down 14 joints of the 2-7/8" worksting tubing to 456'. Pulled out of the well from 456'. Closed the blind rams and applied to 200 psig to the casing. Rigged down the tubing tools and rig floor. Rigged down the annular preventer and secured the well. Note: The cement tag at 1347' was 75' lower than anticipated indicating that 7 bbl of the 20 bbl of cement that was intended to be placed above the retainer was actually pumped below the retainer on the previous day's cement squeeze job. The total amount of cement squeezed below the cement retainer at 1472' was 16 bbl of the 14.8 ppg, Type III cement.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Frew 9 Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700672 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
5/18/2015	Opened the well with 0 psig surface pressure on the casing. Rigged down the BOPE, the rig floor and the tubing tools. Ran in well with the 2-7/8" workstring tubing and tagged the cement plug at 458' (Cement tag witnessed by Cliff Knight, DOGGR). Moved in and rigged up the Halliburton cementing equipment. Pressure tested the pump and the lines to 2000 psgi. Pumped 3 bbls of fresh water ahead then, mixed and pumped 44 bbl of 14.8 ppg, Type III cement with 0.5% Halad (R)-322, 0.5% CFR-3, 35% SS-200 with cement returns to the surface. Laid down 14 joints of 2-7/8" workstring tubing. Topped off the 10-3/4" surface casing with 1 bbl of cement. Rigged down the Halliburton cementing equipment. Cleaned the cement from the 14 joints of workstring tubing. Rigged down the rig floor and the tubing tools. Cleaned the pump tank and laid down the mast.
5/19/2015	Monitored the well for bubbles.
6/19/2015	Cleaned out the cellar and began to remove the cement cellar floor. No bubbles were present in the 10-3/4" surface casing cement.
6/22/2015	Continued to remove the cement cellar floor. Cut off the 11" casing head from the 10-3/4" surface casing. Welded on the steel plate with the API number, the well name and the date welded on to the steel plate. (M. Davis, DOGGR, witnessed and approved the bubble test and the steel plate installation).

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 Sec. 27, T 3N, R 16W S.B. B. & M.
A.P.I. No. 037-00686 Name R. D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date January 15, 1993

Signature J. A. Hemmerly for R. D. Phillips

P. O. Box 3249 Los Angeles, CA 90013-1011 (213) 244-2687
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1992	
12-11	Rigged down. Ready rig for move.
12-12	Moved rig from Playa del Rey to Aliso Canyon.
12-14	Moved in and rigged up.
12-15	Pressure tested lines to wellhead to 3000 psi. Circulated and killed well with 200 Bbls of 69 pcf polymer. Lost 40 Bbls to zone. Installed back pressure valve. Removed xmas tree. Installed Class III 7-1/16" 5000# BOPE. Unable to test BOPE. Changed seal in blind ram door and 3" flex hose bad.
12-16	Tested 7-1/16" 5000# BOPE. BOPE test held, however tubing hanger leaking. Unable to unlatch from Baker packer at 7073'. Jet cut 2-3/8" tubing at 7018'. Left 54' of production tools above packer top.
12-17	Pulled out of well with 2-3/8" tubing. Recovered all of production tools; 2-3/8" tubing was only partially cut. Ran in well with Model C bridge plug and set at 7024'. Pulled out of well. Laid down 235 joints of tubing. Changed pipe rams to 5-1/2". Pressure tested ram door to 1500 psi.
12-18	Removed BOPE, tubing and seal flange. Installed 6" 5000# x 8" 5000# spool. Unlanded 5-1/2" casing. Nippled up BOPE. Jacked 5-1/2" seal out of packer. Pulled 180,000 lbs. Laid down 1 joint of 5-1/2" casing. Unable to circulate well. Filled 5-1/2" casing and annulus.

DOG, 1/19/93

OG103 (6/91/GSR1/5M)

12-19 Pulled out of well. Laid down 5-1/2" casing. Laid down 191 joints of Hydril ex-line, 55 joints of 5-1/2" 8rd with turned down STC collars and 100 joints of 5-1/2" Hydril triple seal. Made up 6-1/8" bit on 7" scraper and 2-7/8" drill pipe. Ran in well to 3120'.

12-20 Ran in well with 6-1/8" bit on 7" scraper, picking up 2-7/8" drillpipe. Tagged packer at 7077' with scraper. Circulated well clean. Pulled to kill string.

12-22 Pulled out of well. Installed shooting flange. Ran Dialog profile caliper log from 7072' to surface. Ran in well with Model C bridge plug. Set bridge plug at 7066'. Changed well over to 63 pcf KCl water. Spotted 6 sacks of sand on top of bridge plug. Pulled up to 6357'.

12-23 Tagged top of sand plug at 7043'. Pressure tested casing to 100 psi from surface to 7043' (20 minute test). Pulled out of well. Ran Eastman Teleco Gyro from 7035' to surface. Using Dialog, shot four 1/2" holes at 7040'. Made up 30' of 2-7/8" tubing tail below Robison oil tool fullbore packer. Ran in well to 7017'. Pressured holes to 1500 psi at 7040'. Unable to get break down.

12-28 Set packer at 7000' with tubing tail at 7040'. Established break down of 3/4 Bbl/min at 2300 psi. Pumped 12 Bbls of 12-3 acid. Final breakdown of 1 Bbl/min at 2000 psi. Pulled up to 6829' with tubing tail and packer at 6789'. Mixed and pumped 28 cu.ft. of matrix cement with 1% Halad 322 and 50 cu.ft. of Class G cement with .5% Halad 322. Pumped 67 cu.ft. out holes at 7040'. Final squeeze pressure at 2400 psi. Cement in place at 1:08 p.m.

12-29 Pulled out of well. Ran in well with 6-1/8" bit on 7" scraper and 123' of 4-3/4" drill collars. Drilled cement from 6887' to 7043'. Cleaned out 5' of sand to 7048'. Circulated well clean. Pressure tested holes at 7040' from surface with 1500 psi (held). Pulled out of well.

12-30 Pulled out of well. Made up 31' of 2-7/8" tubing tail below Robison oil tool fullbore packer. Ran in well. Set packer at 6789'. Pressure tested holes at 7040' to 2550' psi for 20 minutes (held). Pulled out of well. Ran in well with bridge plug retrieving tool to 7039'. Cleaned mud pits.

12-31 Changed well over to 69 pcf polymer at 7048'. Cleaned out sand to top of bridge plug at 7066'. Pulled bridge plug out of well. Ran in well with test seals on 2-7/8" drill pipe to 7085'. Set 20,000 lbs on Baker FB-1 packer at 7085'. Pressure tested seals and packer to 1500 psi for 20 minutes (held). Pulled out of well laying down 2-7/8" drill pipe.

01-02 Pulled out of well laying down 2-7/8" drill pipe. Measured and picked up 232 joints of 2-3/8" tubing. Pulled to kill string.

01-04 Rig down. Waiting on 5-1/2" casing.

01-05 Unable to run 5-1/2" casing. Cross over from Baker seals is 5-1/2" 20#. Casing threads from seal assembly to innerstring are not compatible. Shut rig down to make new cross over sub.

01-06 Pulled out of well. Changed pipe rams to 5-1/2". Ran Baker 4" OD seals and locator sub. Picked up and ran 5-1/2" 20# Hydril triple seal casing externally pressure testing to 4000 psi. Unable to torque turn casing due to rain. Ran 54 joints of 5-1/2", 20#, J-55 Hydril triple seal casing, 1 joint 5-1/2", 20#, J-55 Hydril triple seal pin x ABFL4S box, 47 joints of 5-1/2" ABFL4S 20# N-80 casing.

01-07 Ran 5-1/2" 20# N-80 FL4S casing. Stabbed into Baker packer at 7085'. Set 25,000 lbs on packer. Tested seals to 1500 psi. Unstabbed from packer. Pumped 63 Bbls of 63 pcf 3% KCl water with 5 gal/100 Bbl HIB-19, 5 gal/100 Bbl Ucarcide, and 2 gallons of COS. Installed bridge plug at 60'. Stabbed into packer and set 25,000 lbs on packer. Tested seals to 1500 psi. Picked up BOPE and landed 5-1/2" casing with 113,000 lbs on slips. Cut off 5-1/2" casing. Installed tubing head and seal flange. Installed BOPE and tested to 1500 psi.

01-08 Pulled bridge plug. Installed shooting flange. Using wireline ran Otis "BWB" packer with 4.36" OD, 2.75" ID. Wireline set packer at 7067'. Activated packing seal, seal flange, tubing head and tested to 5000 psi. Ran production string, Otis guide shoe, two 2.75" OD seals, Otis J latch, one joint of 2-3/8" tubing, Otis 1.790" NoGo nipple, one joint of 2-3/8" tubing, Otis "XD" sliding sleeve, one joint of 2-3/8" tubing, BST KBMG gas lift mandrel, 2-3/8" tubing to surface. Spaced out and landed 10,000 lbs on packer at 7007' and 17,000 lbs on tubing hanger.

01-09 Pressure tested Otis packer and seals at 7067' to 1500 psi for 20 minutes (held). Using Santa Paula wireline; pulled dummy valve from mandrel at 6968' and installed 1" pump out valve set at 2700 psi. Open sliding sleeve at 7005'. Installed back pressure in tubing hanger. Removed BOPE. Installed and tested xmas tree to 5000 psi. Changed over to 3% KCl water through sliding sleeve at 7005'. KCl treated with 5 gal HIB /100 Bbls and 5 gal Ucarcide /100 Bbls and 2 gal COS per/100 Bbl. Released rig at 4:00 p.m.

01-11 Rigged down and moved rig to CPS yard Compton (440 Bbls of polymer lost in zone).

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #73, Sec. 27, T 3N, R 16W SB B. & M.
A.P.I. No. 037-21358 Name J. W. Gourley (Person submitting report) Title Agent (President, Secretary or Agent)
Date July 17, 1986

Signature N.W. Buss for J.W. Gourley 7/17/86

Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3925 (Telephone Number)

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Date	
	MWO No. 99587: was issued to set casing patch over stage collar
1986	
1-9	Moved rig from Goleta Bishop #1 to IW #73 at Aliso Canyon
1-10	Rigged up and installed back pressure valve in doughnut. Removed tree and installed 9" x 5000 psi BOPE.
1-11	Pressure tested BOPE with water as follows: Hydril at 2300 psi; pipe rams 3000 psi; blind rams 3000 psi; choke manifold 3000 psi. Test witnessed by Stephen P. Mulqueen of the D.O.G. Removed back pressure valve from doughnut and displaced 63#/cu.ft. polymer completion fluid from well with 370 bbls. of 63#/cu.ft. polymer completion fluid. Attempted to release seal assembly. Would not release. Using wireline, ran free point tool. Found tubing free to safety valve from 7307'-7323'. Made chemical cut at 7300', leaving 15' of tubing, one 4' pup, one 15' safety system, one 20' blast joint, one No-Go nipple, one 10' blast joint and anchor seal assembly in well.
1-13	Filled hole with 2 bbls. Pulled out of well. Picked up fishing tools and ran in with overshot, bumper sub, jars and accelerator on four drill collars. Located fish at 7289'. Jarred and worked on fish. Appeared to have released from packer. Pulled out of well. No recovery. Checked tools. Made up overshot on tubing. Ran in well. Located fish.
1-14	Filled hole with 2 bbls. Rigged up slickline. Ran in well, retrieving equalizer valve and plug. Took 10 bbls. of fluid to fill hole after retrieving plug. Circulated gas out of well. Worked to release latch. Rigged up wireline. Backed off above No-Go nipple at 7347' and pulled out of well to kill string.

1986

1-15 Hole full. Finished pulling out of well. Laid down safety system, blast joint and drill collars. Ran in well with screw-in sub and Baker on/off tool. Circulated well. Screwed into No-Go nipple on top of fish. Released and pulled out of well.

1-16 Filled hole with 2 bbls. Finished pulling out of well. Had come off fish at screw-in sub. Ran in well and screwed into fish. Tightened up. Pressure tested annulus to 1000 psi. Worked to release Baker latch-in-locator. No success. Released at Baker on/off tool. Pulled out of well, changing to chamfered tubing collars. Ran in with casing scraper to 3500'. Circulated well.

1-17 Filled hole with 5 bbls. Pulled out of well. Rigged up wireline. Ran collar log. Rigged up Pengo casing patch 7-1/2" O.D. x 6-3/4" I.D. x 22' long. Ran patch and set on wireline 2971'-2993'. Ran in well with tubing, hydrotesting to 5000 psi. Spaced out with 12,000# on on/off tool. Tested latch by pulling 20,000# over weight of tubing. Installed back pressure valve. Nippled down BOPE. Installed xmas tree.

1-18 Rigged up and tested xmas tree to 5000 psi. Displaced polymer completion fluid with 434 bbls. of KCl water. Released rig at 2:00 p.m., 1-18-86.

FORM 103 SUBMIT IN DUPLICATE Δ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. I.W. #76, Sec. 27, T. 3N, R. 16W, S.B. B. & M.

Date August 12, 1976 Signed P. S. MAGRUDER, Jr.

P. O. Box 3249, Terminal Annex
Los Angeles, California 90051 Title Agent
(Address) (Telephone Number) (President, Secretary or Agent)

(213) 689-3561

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
6-17-76	Using Dowell Pump Truck, killed I. W. #76 using 78# brine-polymer drilling fluid.
6-18-76	To keep location safe, killed FF-32 using waste lease salt water, then using Archer-Reed, set Otis P-X plug in "X-N" nipple at 7081'.
6-19-76 and 6-20-76	Idle.
6-21-76	Idle until work on I. W. #75 is completed.
7-2-76	Moved in Pool Rig #38 from I. W. #75. Started installing B.O.P.E. at 10:00 a.m. Installed 5000 psi 10 3/4" Class IV B.O.P.E. Using H & H Triplex pump, tried to test B.O.P.E. Did not test.
7-3-76	Using H & H, tried to test blind rams - tubing hanger leaked. Using 2 7/8" tubing, screwed into tubing hanger and hydrostatically tested pipe rams to pipe rams for 20 minutes at 4500 psi - O.K. Then tested lower pipe rams to Shaffer bag at 4200 psi for 20 minutes - O.K. Rigged up NOWSCO - using nitrogen, tested bottom pipe rams to Shaffer bag at 4200 psi for 20 minutes - O.K. Then tested pipe rams to pipe rams at 4500 psi for 20 minutes - O.K. Circulated hole.
7-4-76	Rig idle.
7-5-76	(Holiday) Rig idle.
7-6-76	Rigged up McCullough Wire Line Service. Ran 2 7/8" chemical cutter and shot off tubing at 7145' (above wire line junk in tubing.) Measured out of hole. Dressed tubing hanger, then ran tubing hanger on 1800' of 2 7/8" tubing.

7-7-76 Rigged up Halliburton pump truck. Tried to test blind rams against tubing hanger - no good. Pulled tubing hanger and set Baker 8 5/8" Model "C" Lockset bridge plug at 110'. Tested blind rams to bridge plug at 4100 psi for 20 minutes - O.K. Rigged down Halliburton and rigged up NOWSCO. Using nitrogen, tested blind rams to bridge plug at 4100 psi for 20 minutes - O.K. Ran in hole with 6 5/8" casing spear on 10' extender, on 6 5/8" casing stop, on bumper sub, on jars, on 120' 4 3/4" drill collars, on accelerator, on one joint 2 7/8" tubing, on float valve to 3400' to fish 6 5/8" casing.

7-8-76 Latched on to fish at 3724'. Jarred on fish at 80,000# (15 times.) Fish came loose. Pulled out hole, recovering fish (Hook Wall packer; 3 joints 6 5/8", 24#, J-55, R-2, T & C; Lead seal adapter with hold down slips.) Junk in hole on packer at 7175', 2 slips 4" x 3" x 1/2", 3 slips 2 1/2" x 3" x 1/4". Ran in hole with 2 7/8" Baash-Ross over shot, on bumper sub, on Bowen jars, on 120' 4 3/4" Drill collars, on accelerator, on 1 joint 2 7/8", 6.5#, J-55, EUE tubing, on float valve, to 6985' and conditioned drilling fluid. Latched on to fish at 7045' and released packer. Pushed fish down hole 5' and inadvertently released overshot.

7-9-76 Pulled out of hole. Re-jayed slips in Baash-Ross overshot. Ran in hole with same fishing set up. Circulated hole and conditioned mud. Could not get over fish.

7-10-76 Pulled out of hole. Ran in hole with 5 1/2" x 2 7/8" Bowen socket (3 1/4" mill guide), safety joint, jars, 5' bumper sub, 120' 4 3/4" drill collars, 2 7/8" joint of tubing, float valve on 2 7/8", 6.5#, J-55, 8rd EUE tubing to top of fish at 7143'. Latched on to fish and worked fish when jars went off at 80,000# - overshot stripped off. Tried several times to re-engage fish, but with no success. Pulled out of hole. Ran overshot extension on above tools to 6900' (changed mill guide and grapple.)

7-11-76 Idle.

7-12-76 Engaged fish with socket, jarred four times and fish came free. Pulled out of hole. Recovered 24' of 2 7/8" tubing and top of Brown bridge plug assembly. Ran in hole with overshot with 1 5/8" slips and 7 1/2" guide to fish for lost wire line tools.

7-13-76 Ran in hole with overshot with 1 5/8" slips. Recovered all wire line tools and tubing plug. Ran in hole with one joint of 7" wash pipe and 7" x 5 1/2" shoe. Milled on junk at 7166' for one-half hour, received gas cut mud while circulating.

7-14-76 Milled on junk for 2-1/2 hours. Pulled out of hole. Ran overshot. Jarred packer free. Pulled out of hole, packer hanging up on most 8 5/8" collars.

7-15-76 Finished pulling out of hole. Recovered packer. Ran 7 5/8" bit and casing scraper to 7204'. Circulated for two hours. Pulled out of hole.

7-16-76 Ran in hole with 5 5/8" bit and casing scraper. Cleaned out fill from 7606' to 7676' - circulated hole clean. Pulled out of hole. Ran Johnston Bobcat Retrievable Bridge Plug to 7190'.

7-17-76 Using Dowell Pump Truck, tested 8 5/8" casing as follows:

7190'	to	Surface	1000 psi	for	20	minutes	- O.K.
5000'	"	"	1300 psi	"	"	"	- O.K.
4500'	"	"	1600 psi	"	"	"	- O.K.
4000'	"	"	2000 psi	"	"	"	- O.K.
3250'	"	"	2300 psi	"	"	"	- O.K.
2750'	"	"	2500 psi	"	"	"	- O.K.
2000'	"	"	3000 psi	"	"	"	- O.K.
1500'	"	"	3300 psi	"	"	"	- O.K.
1000'	"	"	3600 psi	"	"	"	- O.K.
500'	"	"	4000 psi	"	"	"	- O.K.

Ran Servco 7 11/16" mill. Milled from 3710' to 3760'. Did not have any bad casing.

7-18-76 Idle.

7-19-76 Pulled out 7 11/16" mill. Laid down four drill collars. Rigged up Dresser Atlas and ran Otis 8 5/8" Permatrieve packer and set packer at 7162'. Laid down lubricator and ran in 30 stands tubing.

7-20-76 Pulled out 30 stands of 2 7/8" tubing. Made up Burns 8 5/8", 36# x 6 5/8", 28# casing patch as follows:

Bottom	8 5/8" x 36# lead seal hook wall packer	6.85'
	3 joints of 128.16' of 6 5/8" x 28# Hydril FJ	128.16'
Top	Lead seal adapter with hold-down slips (8 5/8" x 36# - 6 5/8", 28#)	3.30'
	Total	138.31'

Ran on 2 7/8" tubing and 60' x 4 3/4" drill collars. Bottom packer at 3808' and top adapter at 3670'. Set packer and adapter . Tested seals at 1200 psi for 20 minutes - O.K. Pulled out running tool. Made up Otis production and safety equipment on 2 7/8" tubing, changing every collar and hydrotesting tubing at 5000 psi for one minute. Applied Baker seal thread lubricant to pins only, in a sparing fashion.

7-21-76 Continued running 2 7/8", 6.5#, EUE 8rd, production string as before. Spaced out tubing. Landed 7162' of 2 7/8" tubing with Otis production equipment, with 10,000# on Otis Permatrieve packer - pulled 15,000# over weight to check latch. Landed 15' below K.B.

7-22-76 Removed Class IV B.O.P.E. and installed Christmas tree. Tested doughnut and flange at 5000 psi for 20 minutes - O.K. Rigged up and changed over from 80# polymer fluid to lease salt water. Used 430 barrels of salt water. Rigged up Otis wire line unit. Ran and pulled out side door choke in safety system. Ran Otis P-X plug and set in "No-Go" nipple. Rigged up to test Otis Permatrieve packer and seal assembly. Had 800 psi on annulus when plug was seated in "No-Go" nipple. Pumped 20 barrels in annulus and pressure rose from 800 psi to 1300 psi. Unable to make test. Rigged up and circulated through choke manifold. Circulated four hours.

7-23-76 Attempted to test Otis Permatrieve packer and seals - fluid pumped away at 1300 psi freely. Ran Otis wire line and pulled "P-X" plug. Re-dressed plug and reset in Otis "No-Go" nipple. Attempted to re-test. Fluid pumped away as before. Raised polymer fluid from 80# to 83#. Changed over from lease salt water to 83# polymer work over fluid. Cleaned pits and circulated around.

7-24-76 Removed Christmas tree and installed 5000 psi Class IV B.O.P.E. Tested B.O.P.E. with water, as follows: Tested blind rams, top and bottom 2 7/8" pipe rams at 4000 psi for 20 minutes each; Tested Hydril bag at 3000 psi for 20 minutes - all tests O.K. Tests witnessed by D.O.G. Rigged up NOWSCO Unit - tested bottom and top pipe rams at 4000 psi, tested Hydril bag at 3000 psi, tested blind rams at 3800 psi - all tests for 20 minutes each - O.K. Picked up one joint of 2 7/8" tubing and screwed into doughnut. Pulled up to 80,000# and came free. Went back down 8', believed that Otis Permatrieve packer moved down hole and re-set packer 8' deeper. Tested packer and seals at 1500 psi - O.K. Spaced out and landed 10,000# on packer. Pulled 20,000# over weight. Installed tubing hanger plug.

7-25-76 Idle.

7-26-76 Pulled tubing hanger plug. Circulated hole. Rigged up Hydro-test. Tested pup joints and tubing hanger to 5000 psi for one minute - O.K. Tested packer and P-X plug in "XN" nipple at 1500 psi for 10 minutes with rig pump - O.K. Installed tubing hanger plug and removed B.O.P.E. Installed Christmas tree. Using Associated Services, hydrostatically tested tubing hanger and extended neck seals at 5100 psi for 20 minutes - O.K. Then tested Christmas tree at 5100 psi for 20 minutes - O.K. Changed circulating system to waste lease salt water. Using H & H triplex pump, tested Otis "PX" plug in "XN" nipple and Otis Permatrieve packer at 1550 psi for 20 minutes - O.K. Released rig #38 at 9:00 p.m. Rigged down to move to Standard-Sesnon #4.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW 76, Sec. 27, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-21359 Name P.A. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date August 17, 1981

Signature P.A. Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99951 was issued to replace leaking inner string with casing patch.
1981	
7-29	1st Day. Loaded out and moved rig from Playa del Rey to IW #76 in Aliso Canyon.
7-30	2nd Day. Rigged up. Killed IW #76 - with Haliburton pump truck using 79#/cu. ft. HEC polymer completion fluid. Set tubing plug in IW #75 with Otis wireline services.
7-31	3rd Day. Rigged up and circulated gas from completion fluid. Removed xmas tree and installed BOPE.
8-01	4th Day. Finished installing BOPE. Tested blind rams and pipe rams with water to 4000 psi for 20 minutes. Tested Hydril to 3000 psi with water for 20 minutes. Pulled Otis tools loose from packer and circulated bottoms up. Measured out of well, layed down Otis tools and picked up Midway fishing tools.
8-03	5th Day. Ran in well. Set spear into 6-5/8" inner casing. Jarred on fish 12 times and inner string came free. Pulled out of well. Recovered all 6-5/8" casing and 2 lead seals. Ran 7-5/8" bit and casing scraper to packer and circulated hole clean. Started out of well changing to chamfered collars.
8-04	6th Day. Finished pulling out of well changing to chamfered collars. Gearhart ran collar log to 3818'. Collars at 3648', 3690', 3731', stage collar at 3737', 3776' and 3818'. Made up Pengo casing patch, ran in well and set top 3717' and bottom 3759'. Pulled out of well. Made up stab in and seals.
8-05	7th Day. Stabbed into packer and tested packer and Pengo patch with 1500 psi for 20 minutes. Pulled out of well. Picked up production equipment. Going in well hydrotesting tubing.

8-06 8th Day. Hydrotested in well with 5000 psi for 1 minute. Latched into packer spaced out. Pulled 25,000# to check latch. Landed tubing with 10,000# on packer. Removed BOPE. Installed xmas tree and tested with 5000 psi for 20 minutes.. Changed from polymer completion fluid to lease water. Started rigging down. Rig released at 10:00 P.M. 8-6-81.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Field: Aliso Canyon
County: Los Angeles
Well: Fernando Fee 32 C
Surface Location: Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359
Azra Kargar
Title: (President, Secretary, or Agent)

Date: 1/3/2011

Signature: (Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300
Telephone Number: 818-360-1245

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
9/15/2010	Held safety meeting with crew. Rigged up Western wire line pulled PXN plug. Rigged down wire line. Moved in pump and rigged up for well kill. Opened well with 2700 psi. Pumped 50 bbls high viscosity polymer and displaced with 42 bbls 9.6 ppg. Killed well per schedule with 370 bbls 9.6 ppg. Secured well.
9/16/2010	Held safety meeting with crew. Opened well 300 annulus 100 tubing, bled down and filled with 31 bbls, and circulated out the gas cut fluid. Installed back pressure plug, nippled down production tree (bolts were rusted). Nippled up class III BOP and perform function test and removed BPV. Rigged up working floor and tubing equipment.
9/17/2010	Held safety meeting with crew. Opened well 0 psi tubing 300 psi casing, bled down casing, filled well with 24 bbls. Installed BPV and tested blind rams to 300 psi for low and 5000 psi for high pressure for twenty minutes. Removed BPV and installed tubing pup joint. Tested pipe ram to 300 psi for low and 5000 psi for high pressure for twenty minutes. Tested Hydril to 300 psi for low and 5000 psi for high pressure for twenty minutes. Tested all control valves to 300 psi for low and 5000 psi for high pressure for twenty minutes (All tests good). Backed out and hold down studs, unlanded tubing at 40000 lbs, and worked loose form packer at 7163'. Secured well.
9/18/2010	Held safety meeting with crew. Opened well 0 psi, needed 7 bbls to fill. Pulled out of well and laid down seal assembly and blast joints. Redressed seals assembly and made up seals, latch,6' pup joint, on/off tools with PXN plug in place, and perforated sub. Measured in well to 7163', latched in packer, and released from o/o tool. Tested to 500 psi for twenty minutes. Secured well.
9/19/2010	Held safety meeting with crew. Opened well 0 psi 0 bbls to fill. Rigged up Tuboscope unit and pulled out of well thru scan unit (175 yellow 51 blue and 3 red). Laid down top half of On/Off tool. Rigged down scan unit. Rigged down tubing equipment and working floor. Secured well.
9/20/2010	Held safety meeting with crew. Opened well 0 psi 0 bbls to fill. Nippled down class III BOPE and tubing head bolts (could not pull). Welder cut bolts. Replaced primary seals. Nippled up class III BOP. Secured well.
9/29/2010	Held safety meeting with crew. Opened well 0 psi, well standing full. Nippled down class III BOP, installed seal flange and tubing head. Energized seals and tested them to 5000 psi for twenty minutes. Nippled up and function tested BOP. Rigged up working floor and tubing equipment. Secured well.
9/30/2010	Held safety meeting with crew. Opened well 0 psi 0 bbls to fill. Made up 7.064 inch spear with stop, bumper sub, jars, and 2 4 -3/4" drill collars, and intensifier. Measured in well to top part of the patch at 3725' (found patch 12' high). Engaged fish, jarred loose, pulled out of well to 3488' (rig motor was shut down for repairs). Secured well.
10/1/2010	Held safety meeting with crew. Opened well 0 psi 0 bbls to fill. Pulled out of well (recovered top cone) and made up 7.064" spear with 38' extensions bumper sub, jars (2) 4-3/4" drill collars, intensifier. Ran in well to top of fish at 3719'. Engaged fish jarred loose and pulled out of well (recovered 41' Pengo patch). Laid down fish, broke down tools and fish. Secured well.
10/4/2010	Held safety meeting with crew. Open well 0 psi 0 bbls to fill. Made up 7.064" spear, bumper sub, jars (2) 4-3/4" drill collars. Ran in well to 3758' and engaged fish jarred loose. Pulled out of well (recovered bottom 1' section of the patch), laid down fishing tools. Replaced leaking ram seals on blind rams. Made up 8-5/8" casing scraper and bumper sub. Ran in well to 3748', tagged, and attempted to work down. Secured well.
10/5/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Made up 7-3/8" shoe, bumper sub, jars, and (2) 4-3/4" drill collars. Ran in well to 3748' and pushed the fish down to 3900'. Pulled out of well and laid down tools. Made up shooting flange. Secured well.
10/6/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Made up 7-3/8" shoe, (1) joint 7-3/8" wash pipe, drive sub, bumper sub, jars, and (2) 4-3/4" drill collars. Ran in well to 3900', tagged fish, and pushed fish down to top of the packer at 7202'. Reverse circulated well for 3 times of the tubing volumes (125 bbls). Pulled out of the well and laid down tools. Secured well.
10/7/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Nippled up shooting flange and rigged up SLB wire line. Made up USIT tools and ran in well to 1000' (tools stop working). Pulled out of well and re-headed wire line. Ran in well to 7150' and logged to surface. Rigged down wire line. Made up 7.8125 string mill and (2) 4-3/4" drill collars. Ran in well to 3792' and reamed the patch area from 3710' to 3770'. Pulled out of well to 1800'. Secured well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Fernando Fee 32 C
A.P.I. No. 03721359

Field: Aliso Canyon County: Los Angeles
Surface Location: Sec 27 3N 16W S.B.B.M.

Azra Kargar Title:
(President, Secretary, or Agent)

Date: 1/3/2011 Signature:
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-360-1245

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
10/8/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Pulled out of the well and laid down tools. Made up 8-5/8" (40') Homco casing patch and setting tools. Ran in well to 3718'. Pressured the well to 4000 psi to set top part of the patch at 3718' and the bottom at 3758'. Pulled out of well and laid down setting tools. Secured well.
10/11/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Made up Weatherford inflatable packer and ran in the well to 2500'. Pulled out of well and laid down packer. Filled the well and pressure tested from surface to 7163' to 1400 psi for one hour (test went well). Secured well.
10/12/2010	Held safety meeting with crew. Opened well with0 psi and 0 bbls to fill. Laid down (2) 4-3/4" drill collars. Made up top half on/off tool, 1 joint tubing, sliding sleeve, 1 joint tubing, GLMA, and the rest of the tubing to surface. Attempted to latch on/off tool, spaced well, and released on/off tool. Could not latch on/off tool. Pulled out of well (backed off service break in sliding sleeve). Secured well.
10/13/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Made up 5-3/4" over shot with 3.89" grapple and bumper sub. Ran in well to 7123', engaged the fish, and released on/off tool. Pulled out of well and laid down fishing tools and sliding sleeve. Made up top half of on/off tool, 1 joint tubing, sliding sleeve, 1joint tubing, GLMA; and, ran in well to 5000'. Secured well.
10/14/2010	Held safety meeting with crew. Opened well with 0 psi and 0 bbls to fill. Ran in well to the packer at 7163', engaged on/off tools, and re-spaced well. Landed in tubing hanger with 10000 compresion. Tested annulus to 500 psi for twenty minutes (went well). Installed BPV, nippled down BOPE, nippled up production tree, and removed BPV. Loaded out equipment, rigged down hoist and moved rig and equipment to SS25A.
10/15/2010	Held safety meeting with crew. Installed laterals and cleaned location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year) Signature Thomas J McMahon
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
4/20/2016	Held safety meetiing. Field pressure was 1056 psi. Casing & tubing was 1233 psi. Rigged up Onyx kill skid. Pumped 60 bbls of Hi Visc kill pill down the tubing. Killed well with 400 bbls of 8.5 polymer kill fluid. Bled down well. Still had flow from the casing. Circulated 150 bbls and bled down well. Removed wellhead tree. Installed Class III BOPE. Spotted & rigged up accumulator. Rigged up work floor.
4/21/2016	Held safety meeting. Field pressure was 1064 psi. Casing & tubing was 300 psi. Circulated 200 bbls. Changed out rams from 3-1/2" to 2-7/8" rams. Rigged up WFT testers. Tested pipe rams, Choke manifold, remote kill line, kill valves & check valves, return line & valves to choke manifold & blinds to 300 psi low and 5000 high. Tested hydril bag to 300 psi & 3500 psi high. Repaired leaks as needed. Ran out tubing hanger rams. Unlanded tubing hanger and re-landed. Ran in rams and closed in well. Secured location.
4/22/2016	Held safety meeting. Field pressure was 1059 psi. Tubing and casing pressure were 100 psi. Bled down well. Randall Morian with DOGGR performed BOPE inspection. Rolled hole with 100 bbls of 8.5# polymer kill fluid. Bled down well. Ran out tubing hanger rams. Picked up 1 joint of 2-7/8" N-80 tubing and released seal assembly. Laid down tubing hanger & pup joints. Pumped 35 bbls of hi visc polymer pill & 5 bbls of 8.5# polymer (took 32 bbls to get returns). Bullheaded 35 bbls. Rolled the hole with 200 bbls. Bled down well, Pulled out of the hole with production string to 3748' (10' inside of Homco casing patch). Attempted to work thru with no success. Ran in the hole & latched back into Otis Packer. Tested casing to 1000 psi and held for 10 minutes. Good test. Closed in well. Secured location.
4/23/2016	Held safety meeting. Field pressure was 1059 psi. Tubing and casing pressure were 30 psi. Bled down well. Spotted Western Wireline. Rigged up and ran 2.125" gauge ring to 7154', set down 2' above on & off tool. Ran 2.125" chemical cutter & cut tubing @ 7150'. Set 18' sand plug in hole. Tagged sand @ 7135'. Pulled out of the hole with a total of 129 joints. Found bevel collars in string. Closed in well. Off loaded fishing tools. Secured location.
4/25/2016	Held safety meeting. Field pressure was 1062 psi. Tubing had 10 psi and casing pressure had 0 psi. Bled down well. Changed out elevators to MYT for bevel collars. POH with 98 joints, laid down mandrel, 1 joint, sliding sleeve, 1 joint with chemical cut measuring 25.33' (top of fish @ 7149'). Picked up 7.815" milling assembly. Would not go thru wellhead. Filled out hot work permit. Ground down mill to pass thru wellhead. Made up 7.810" Tapered Mill, 7.75" String Mill, 6-1/4" Junk sub, 4-3/4" hydraulic jars and two 4-3/4" drill collars. Ran in the hole & tagged @ 3709'. Spotted and rigged up 2.5 Power Swivel. Closed in well. Secured location.
4/26/2016	Held safety meeting. Field pressure was 1059 psi. Tubing & casing had 0 psi. Bled down well. Milled from 3708' to 3709'. Pulled out of the hole with milling assembly. Mill had slight wear on lower gauged area on tapered mill. Ran in the hole to 7074'. Dumped additional 18' of sand, bringing sand cap @ 7127'. Will verify in the morning. Closed in the well. Secured location.
4/27/2016	Held safety meeting. Field pressure was 1065 psi. Tubing & casing had 0 psi. Bled down well. Ran in the hole & tagged top of sand @ 7127'. Pulled out of the hole. Ran in the hole with 5-3/4" swage, 2- 4 3/4" drill collar, bumper sub, hydraulic jars & 2- 4 3/4" drill collar. Tagged down @ 3745'. Could not get thru restricted section of Homco patch. Pulled out of the hole. Ran in the hole with 6.213" string mill, 4-3/4" hydraulic jars & 2- 4 3/4" drill collars. Tagged down @ 3733'. Installed circulating head. Made up 2.5 Power Swivel. Closed in well. Secured location.
4/28/2016	Held safety meeting. Field pressure was 1065 psi. Tubing & casing had 0 psi. Bled down well. Milled from 3733' to 3741'. Fell thru restriction with no additional torque remaining on tubing. Pulled out of the hole and laid down 6.213" string mill. Ran in the hole with 7.812" string mill assembly. Tagged down @ 3709'. Installed circulating head & picked up 2.5 Power Swivel. Milled at 3709' & could not make hole. Laid down 2.5 Power Swivel and pulled 20 joints.
4/29/2016	Held safety meeting. Field pressure was 1066 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole & laid down 7.812" milling assembly. Ran in the with 8-5/8" 36# positive scraper & tagged @ 3709'. Pulled out of the hole. Laid down scraper. Made up & ran in the with 7.625 string mill, 4-3/4" hydraulic jars, 4- 4-3/4" drill collars. Tagged @ 3709'. Installed circulating head & rigged up 2.5 power swivel. Milled from 3709' to 3710'. Circulated clean. Laid down 2.5 power swivel. Closed in well. Secured location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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4/30/2016	Held safety meeting. Field pressure was 1066 psi. Tubing & casing had 0 psi. Bled down well. Moved out 2.5 power swivel. Moved in and rigged up 3.5 power swivel. Milled from 3710' to 3720'. Circulated clean. Laid down 3.5 power swivel. Pulled 2 joints. Closed in well. Secured location.
5/2/2016	Held safety meeting. Field pressure was 1070 psi. Tubing & casing had 0 psi. Bled down well. Milled from 3720' to 3737'. Circulated clean. Laid down 3.5 power swivel. Pulled 2 joints of 2-7/8 EUE N-80 tubing. Closed in well. Secured location.
5/3/2016	Held safety meeting. Field pressure was 1068 psi. Tubing & casing had 0 psi. Bled down well. Milled from 3737' to 3740'. Could not get any deeper and cutting dropped off. Circulated clean. Laid down 3.5 power swivel. Pulled out of the hole. Found a section of casing patch wrapped around string mill blades. Made up and ran in the hole with a 7-5/8" round nose mill, 7.821" string mill, 4-3/4" hydraulic jars and 4- 4-3/4" drill collars. Tagged down @ 3712'. Installed circulating head. Rigged up 3.5 power swivel. Closed in well. Secured location.
5/4/2016	Held safety meeting. Field pressure was 1049 psi. Tubing & casing had 0 psi. Bled down well. Milled from 3712' to 3724', with 7.812" string mill assembly. Could not get deeper. Circulated well clean. Laid down 3.5 power swivel. Pulled 2 joints. Closed in well. Secured location.
5/5/2016	Held safety meeting. Field pressure was 1066 psi. Tubing & casing had 0 psi. Bled down well. Removed circulating head. Pulled out of the hole with 7.812" string mill assemlbly. Laid down string mill. Made up and ran in the hole with 7.78" OD flat bottom shoe with tungsten carbide, 1 joint of 7-3/8" washpipe, 4-3/4" hydraulic jars, 4- 4-3/4" drill collars. Tagged down @ 3721'. Installed circulating head & rigged up 3.5 power swivel. Milled from 3721' to 3721.5'. Circulated clean. Pulled to 3710'. Closed in well. Secured location. Weatherford replaced alternator on power swivel.
5/6/2016	Held safety meeting. Field pressure was 1070 psi. Tubing & casing had 0 psi. Bled down well. Milled with 7.78" shoe assembly from 3721.5' to 3722'. While milling at 3722' we lost hole to 3721.5, could not get back to 3722'. Pulled out of the hole and laid down 7-3/8" washpipe (shoe had no signs of wear on the bottom or inside the shoe, only obvious wear was external). Ran in the hole with 7.812" tapered mill, 4-3/4" hydraulic jars, 4- 4-3/4" drill collars & slinger. Tagged down @ 3723'. Installed circulating head & rigged up 3.5 power swivel. Milled from 3723' to 3724.5'. Circulated hole clean. Pulled to 3712'. Closed in well. Secured location.
5/7/2016	Held safety meeting. Field pressure was 1070 psi. Tubing & casing had 0 psi. Bled down well. Milled with 7.812" tapered milling assembly from 3724.5' to 3733'. Circulated clean. Pulled to 3712'. Closed in well. Secured location.
5/9/2016	Held safety meeting. Field pressure was 1077 psi. Tubing & casing had 0 psi. Bled down well. Milled with 7.812" tapered milling assembly from 3733' to 3736'. Circulated clean. Lost power to 3.5 power swivel @ 11:30 AM. Could not get parts to repair. Laid down power swivel (will change out tomorrow morning). Pulled to 3712'. Closed in well. Secured location.
5/10/2016	Held safety meeting. Field pressure was 1073 psi. Tubing & casing had 0 psi. Bled down well. Milled with 7.812" tapered milling assembly from 3736' to 3741.5'. Circulated clean. Pulled to 3712'. Closed in well. Secured location.
5/11/2016	Held safety meeting. Field pressure was 1078 psi. Tubing & casing had 0 psi. Bled down well. Milled with 7.812" tapered milling assembly from 3741.5' to 3742'. 3.5 power swivel lost throttle power. Rigged down and changed out power swivels. Milled from 3742' to 3747'. Found two hydraulic hoses with pin holes leaking on swivel. Will change out in the morning. Circulated clean. Closed in well. Secured location.
5/12/2016	Held safety meeting. Field pressure was 1064 psi. Tubing & casing had 0 psi. Bled down well. Milled with 7.812" tapered milling assembly from 3747' to 3751' (bottom of tapered mill blades @ 3749') and patch fell away. Circulated clean @ 3753'. Ran in the hole & tagged @ 3760'. Pushed obstruction down hole to 4455'. Rigged up 3.5 power swivel and broke circulation. Tagged @ 4451'. Could not make hole. Shut pump off and lowered tubing to tag and did not tag down at 4451' or at 4455'. Chased obstruction in the hole to @ 5216'. Lost 25' to 5191', pulling 60K max to pull free. Jars were not working. Pulled out of the hole to 1706', will check tools in the morning. Closed in well. Secured location.

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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5/13/2016	Held safety meeting. Field pressure was 1075 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole with 7.812 tapered mill assembly. Tapered mill gauged out at 7-11/16". Made up and ran in the hole with 7-3/4" Concaved mill, 2 - 6-7/8" junk subs, 4-3/4" bumper sub & jars, 4- 4-3/4" drill collars & 4-3/4" slinger. Tagged down @ 5159'. Could not work thru obstruction. Installed circulating head & rigged up 3.5 power swivel. Broke circulation and worked obstruction down hole to 5172'. Worked down to 5209'. Milled on obstruction to 5219' and continued milling to 5348'. Fell thru to 5417'. Rigged down power swivel. Ran in the hole to 7129' (7127' sand cap). Pulled to 7045'. Closed in well. Secured location.
5/14/2016	Held safety meeting. Field pressure was 1050 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole with 7-3/4" concaved mill assembly. The 7-3/4" concaved mill had no wear on bottom of mill. Wear was on the side of the mill. Made up & ran in the hole with 7-5/8" reverse tooth shoe with catcher assembly, 4.84' - 7-5/8" extension, 4-3/4" bumper sub & jars with 2- 4 -3/4" drill collars to 7131'. Installed circulating head. Rigged up 3.5 power swivel. Cored from 7131' to 7134'. Circulated down to 7136'. Plugged off junk basket at 500 psi at 1/2 bpm. Laid down power swivel. Removed circulating head. Pulled out of the hole wet. Recovered junk from Homco patch. Closed in well. Secured location.
5/16/2016	Held safety meeting. Field pressure was 1078 psi. Tubing & casing had 0 psi. Bled down well. Cleaned out 7-5/8" junk basket. Found several rolled up pieces of casing patch and had bumper sub packed off with sand & cuttings. Run in hole with 7-5/8" reverse tooth shoe with catcher assembly, 4.84' - 7-5/8" extension (junk basket), 4-3/4" jars with 2- 4-3/4" drill collars & tagged @ 7134'. Rotated down to 7138' without the pump. Circulated down to @ 7140'. Plugged off. Pulled out of the hole wet. Broke out and laid down 7-5/8" junk basket. Recovered pieces of casing patch and cuttings mixed in with the sand. Reran 7-5/8" reverse tooth shoe with catcher assembly, 4.84' - 7-5/8" extension (junk basket), 4-3/4" jars with 2- 4-3/4" drill collars to @ 5907'. Closed in well. Secured location.
5/17/2016	Held safety meeting. Field pressure was 1080 psi. Tubing & casing had 0 psi. Bled down well. Ran in the hole with 7-5/8" junk basket assembly from 5907' to 7139'. Installed circulating head & rigged up 3.5 power swivel. Cleaned from 7139' to 7152'. Pulled out of the hole. Recovered @ 10 small pieces of milled casing patch. Made up & ran in the hole with 7-3/4" Flat Bottom Shoe, 1 joint of 7-3/8" washpipe, 4-3/4" hydraulic jars, 2 - 4-3/4" drill collars. Tagged down @ 7152'. Installed circulating head & rigged up 3.5 power swivel. Cleaned out to 7173'. Circulated clean. Pulled out of the hole to 3210'. Closed in well. Secured location.
5/18/2016	Held safety meeting. Field pressure was 1074 psi. Tubing & casing had 0 psi. Bled down well. Continued to pull out of the hole. Laid down washpipe. Made up & ran in the holw with 7-1/4" guide, 5-3/4" overshot dressed with 2-7/8" grapple, 4-3/4" bumper sub & hydraulic jars, 4- 4-3/4" drillcollars and slinger. Tagged down @ 7159' top of fish. Engaged fish @ 7164'. Released seals & filled hole with 10 bbls. Wellbore started u-tubing. Pumped 42 bbls down the tubing. Bled down well. Pulled out of the hole pumping metal displacement 10 stands. Recovered seal assembly, 6' pup joint, on & off tool & 5' chemical cut. Made up and ran in the hole with Haliburton releasing tool, 4-3/4" bumper sub & hydraulic jars, 2- 4-3/4" drill collars & 4-3/4" slinger to 1966'. Closed in well. Secured location.
5/19/2016	Held safety meeting. Field pressure was 1082 psi. Tubing & casing had 0 psi. Bled down well. Ran in the hole from 1966' and engaged releasing tool @ 7173'. Attempted to release sealbore with no success. Releasing tool came out of Otis 8-5/8" sealbore packer atfter working jars at 27K over string weight and 37K of straight pull. Pulled out of the hole. Laid down releasing tool. Made up & ran in the hole with 4.010 Itco spear with 5-7/8" stop sub, 4-3/4" bumper sub, hydraulic jars, 2- 4-3/4" drill collars & 4-3/4" slinger below 2-7/8" N80 tubing. Engaged 8-5/8" Otis sealbore packer @ 7135' with the top at 7173'. Worked packer loose jarring 55K over string weight. Pulled out of the hole with the sealbore packer dragging @ 10K to 20K, with no swabbing. Recovered 8-5/8" Otis sealbore, with Pengo patch lower cone and 3' of 1/2" stainless steel capulary tubing riding on top of packer. Laid down fish and fishing tools. Ran 8-5/8" WFT positive set scraper and 50 joint kill string. Closed in well. Secured location.

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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5/20/2016	Held safety meeting. Field pressure was 1078 psi. Tubing & casing had 0 psi. Bled down well. Well was on a vacuum. Filled hole with 9 bbls of kill fluid. Ran in the hole with 8-5/8" 36# positive scraper & bumper sub from 1570' to top of liner @ 7204'. Pulled out of the hole (performed blow out drill with rig crew). Laid down 8-5/8" scraper assembly. Ran in the hole with 2-7/8" clean out string to 7635' (41' of fill). Installed circulating head. Rigged up king swivel. Attempted to clean out at 7635', could not get deeper than 7635', or rotate tubing. Pulled to 7615'. Kept plugging up at surface. Getting back, rubber element off of sealbore packer, metal cutting, scale and fiberglass from Homco patch. Circulated clean. Pulled to 6950'. Closed in well. Secured location.
5/21/2016	Held safety meeting. Field pressure was 1078 psi. Tubing & casing had 0 psi. Bled down well. Well was on a vacuum. Filled hole with 10 bbls of kill fluid. Ran in the hole to 7204'. Circulated clean to insure no rubber or trash at the top of the liner. Ran in the hole to 7635'. Rigged up 3.5 power swivel. Cleaned out from 7635' to 7672'. Pulled out of the hole to 2048'. Closed in well. Secured location.
5/23/2016	Held safety meeting. Field pressure was 1086 psi. Tubing & casing had 0 psi. Bled down well. Well was on a vacuum. Filled hole with 27 bbls of kill fluid. Pulled out of the hole. Found pieces of patch, lead & a section of hanger slip stuck in 2-7/8" reverse tooth collar. Installed shooting flange. Held safety meeting with rig crew & Western Wireline. Made up Gyro & Caliper log. Installed lubricator. Ran in the hole, surveying with Gyro and tagged @ 7675'. Logged well from 7204' to surface. Rigged down tools and lubricator. Removed shooting flange. Made up & ran in the hole with Weatherford 8-5/8" bridge plug. Set & tested @ 500 psi at 1563'. Held for 5 minutes. Good tested. Released tool. Closed in well. Secured location.
5/24/2016	Held safety meeting. Field pressure was 1083 psi. Tubing & casing had 0 psi. Bled down well. Well was on a vacuum. Pumped 8 bbls to fill hole. Ran in the hole from 1563' to 7204' TOL. Pulled bottom of bridge plug to 7199' with COE @ 7193' and top at 7189'. Set 8-5/8" bridge plug. Tested to 1000 psi. tested good. Dumped 7 sacks of 50# sacks of 20-40 sand. Tagged @ 7179'. Pulled out of the hole. Laid down retrieving head. Rigged down tongs & rig floor. Removed Class III bope. De-energized tubing spool. Removed & loaded out tubing spool. Changed out primary seal. Installed Class III bope. Filled hole and shut blinds. Rigged up rig floor. Closed in well. Secured location.
5/25/2016	Held safety meeting. Field pressure was 1085 psi. Tubing & casing had 0 psi. Bled down well. Moved in and spotted Schlumberger Wireline. Installed lubricator and made up logging equipment. Ran in the hole with USIT log and tagged @ 7175' wireline measurements. Correlated USIT log to USIT log ran on 10/7/2010. Logged well from 7160' to surface. Rigged down & loaded out lubricator. Closed in well. Secured location.
5/26/2016	Held safety meeting. Field pressure was 1083 psi. Tubing & casing had 0 psi. Bled down well. Moved in and spotted Baker Hughes Wireline. Installed pack off assembly and tied into shooting flange. Made up logging equipment. Ran in the hole with Vertilog log and failed surface test. Changed out and redressed tools. Ran in the hole and tagged @ 7156' wireline measurements. Correlated Vertilog log to USIT log ran on 10/7/2010. Logged well from 7138' to surface. Rigged down logging tools & equipment. Loaded out. Closed in well. Secured location for the holiday weekend.
5/31/2016	Held safety meeting. Field pressure was 1190 psi. Tubing & casing had 0 psi. Bled down well. Tubing spool failed inspection. Rigged down circulating tank. Moved tank from FF-32C to FF-32F and spotted on location. Closed in well. Secured location. Waiting on orders for tubing spool and or scope change.
6/2/2016	Held safety meeting. Field pressure was 1184 psi. Tubing & casing had 0 psi. Bled down well. Ran the hole and laid down 4-3/4" drill collars. Removed 11" Class III BOPE. Installed and function tested 7" 5M Class II BOPE. Tested BOPE to 500 psi. Loaded out 3.5 power swivel. Roped out mud pump. Ran in the hole with 228 joints of 2-7/8" N80 6.5# tubing. Shut and locked BOPE. Set rig 2-7/8" slips. Changed plans. Waiting on tubing spool.

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Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
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Signature
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6/8/2016	Held safety meeting. Field pressure was 1190 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole with 228 joints. Rigged down tubing handling equipment. Rigged down work floor. Removed 7" Class II bope. Installed & tested tubing spool. Tested primary seal at 300 psi low and 2760 psi high. Held both test for 20 minutes.Tested secondary seal at 300 psi low and 2760 psi high. Held both test for 15 minutes. Both seals tested good. Set tubing hanger in place. Installed 11" riser spool & 11" 5M Class III BOPE. Installed work floor. Rigged up chake manifold and mud pump to well. Closed in well. Secured location.
6/9/2016	Held safety meeting. Field pressure was 1190 psi. Tubing & casing had 0 psi. Bled down well. Rigged up Weatherford testing unit. Tested 2-7/8" pipe rams & choke to 300 psi low & 5000 psi high. Tested Hydril bag at 300 psi low & 3500 psi high. All test witnessed by Arsenio Lagunzad with DOGGR. Made up and ran in the hole with Weatherford 8-5/8" 36# AS1X test packer. Set packer with COE @ 5738'. Pressured tested casing from 5738' to 7178' top of sand cap. Pressured up thru tubing to 1608 psi and bled down to 1574' (2%) in one hour. Witnessed by Arsenio Lagunzad with DOGGR. Pressure tested backside from 5738' to surface. Pressured up to 1501 psi and bled down to 1210 psi in 30 minutes. Test failed. Pulled to 5067'. Tubing collars were hanging up in tubing spool. Installed circulating head. Closed in well. Secured location.
6/10/2016	Held safety meeting. Field pressure was 1190 psi. Tubing & casing had 0 psi. Bled down well. Pulled to 4500'. Set packer and pressure tested casing from 4500' to surface at 1447 psi and bled down to1247 psi in 8 minutes. Failed test. Bled down. Pulled to 3509'. Set packer. Pressure tested casing from 3509' to surface at 2652 psi. Bled down to 2646 psi in 1 hour (1%). Good test. Bled down well. Released packer and pulled to 2521'. Set packer. Pressured tested from 2521' to surface at 2830 psi. Bled down to 2798' in 1 hour (1%). Good test. Bled down well. Released packer and pulled to 1007'. Set packer. Pressure tested from 1007' to surface at 3383 psi. Bled down to 3372 psi in 1 hour (1%). Good test. All test witnessed by Arsenio Lagunzad with DOGGR. Released packer and pulled out of the hole. Laid down & loaded out packer. Closed in well. Secured rig.
6/11/2016	Held safety meeting. Field pressure was 1190 psi. Tubing & casing had 0 psi. Bled down well. Rigged down tubing equipment. Rigged down work floor. Removed Class III BOPE. De-energized & removed tubing spool. Installed 11" 5M riser spool. Installed double gate. Filled hole and pressure tested to 500 psi , no leaks. Good test. Cleaned location. Closed in well. Secured rig.
6/13/2016	Held safety meeting. Service rig & equipment. MIRU Doby Crane. Moved tubing & drill collars away from Well FF-32B. RDMO Crane. MIRU Onyx gas separator. Rigged up mud pump to Well FF-32E. Pump (32) bbls. (Well would not fill). SoCal Gas halted operations. Worked as directed by SoCal Gas: Assist Onyx rig down & rig up gas separators on Wells FF-32D, FF-35D & P-25R.
6/14/2016	Held safety meeting. Roustabout as directed by SoCal Gas: Assisted Onyx in rigging up, rigging down & killing wells FF-35D, MA-1B, SS-16 & SS-12.
6/15/2016	Ensign Monthly Safety meeting. Roustabout as directed by SoCal Gas: Assisted Onyx & Pacific Petroleum rigged up & down kill equipment for wells P-12,SS-17, P-25R, SS-4A, F-6 & SS-13.
6/16/2016	Ensign Monthly Safety meeting. Roustabout as directed by SoCal Gas: Assisted Onyx, Premerier Nytrogen unit & Pacific Petroleum rigged up & down kill equipment for wells P-50B, P-25R, SS-4A, & SS-4.
6/17/2016	Ensign Monthly Safety meeting. Roustabout as directed by SoCal Gas: Assisted Onyx, Premerier Nytrogen unit & Pacific Petroleum rigged up & down kill equipment for wells P-50B, P-69B, P-69D & SS-4-0.

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6/18/2016	Held safety meeting. Field pressure was 1195 psi. Tubing & casing had 0 psi. Bled down well. Removed double gate & spacer spools. Installed tubing spool & tested secondary seals to 300 psi low & 2760 psi high. Good test & charted. Installed Class III BOPE. Rigged up work floor. Tested pipe rams and all connection to 300 psi low and 5000 psi high. Tested Hydrill bag to 300 psi low & 3500 psi high. All test were 20 minutes. Mark Davis with DOGGR deferred BOPE test. (Will do BOPE inspection & check charts on 6/20). Rigged up tubing equipment. Made up and ran in the hole with 8-5/8" 24-40# Haliburton DNL bridge plug, on and off tool, pup joint & 8-5/8 20-40# RTTS test packer & 100 joints of 2-7/8" N80 tubing. Closed in well. Secured rig.
6/20/2016	Held safety meeting. Field pressure was 1199 psi. Tubing & casing had 0 psi. Bled down well. Found pipe rams BOPE hose had hole in it. Replaced hose. Added fluid to accumulator. Mark Davis with DOGGR performed a BOPE inspection and reviewed pressure test on BOPE done on 6/18. Ran in the hole and set bridge plug @ 5770'. Attempted to set bridge at 5790',5809' & 5850' with no success. Ran in the hole and tagged down @ 7175'. Attempted to set @ 7155' with no success. Pulled to 4682' and set RTTS test packer. Change in orders. Relaesed packer and pulled out of the hole. Laid down and loaded out bridge plug & test packer. Closed in well & secured rig.
6/21/2016	Held safety meeting. Field pressure was 1200 psi. Tubing & casing had 0 psi. Bled down well. Ran in the hole with 228 joints of 2-7/8" 6.5 N80 tubing (performed blow out drill with rig crew). Landed tubing @ 7086'. Rigged down tubing equipment & work floor. Removed BOPE. Rigged down mud pump. Emptied circulating tanks. Hauled off WFT 3.5 power swivel, WFT 4 - 4-3/4" drill collars & 20 joints of 2-7/8" 6.5# N-80 production tubing. Closed in well. Secured well.
6/22/2016	Held safety meeting. Field pressure was 1201 psi. Tubing & casing had 0 psi. Bled down well. Removed 2-7/8 test hanger. Installed crossover from 2-7/8' to 3-1/2" and 3-1/2" tubing hanger & landed in wellhead (bottom of tubing tail @ 7085). Installed and tested wellhead tree to 300 psi low & 3000 psi high. Loaded out rig floor. Rigged down mast. Moved Ensign rig 335 to FF-32F. Spotted steel plate. Moved in and spotted rig. Spotted rig equipment, mud pump & circulating tanks.
9/19/2016	MIRU on FF-32C. Spotted rig equipment. De-energized wellhead tree. Pulled tree. Installed 11" 5M spool. Installed 11" Class III BOPE. Changed out rams from 4-1/2" to 2-7/8". Rigged up choke assembly, work floor & tubing equipment. Closed in well & secured rig. Cleaned location.
9/20/2016	Held safety meeting. Field pressure was 1261 psi. Tubing & casing had 0 psi. Bled down well. Rigged up Weatherford Tester. Tested pipe rams, choke manifold, remote kill line, kill valves & check valves, return line & valves to choke manifold & blinds to 300 psi low and 5000 high. Pressure tested hydril bag to 300 psi low & 3500 psi high. Repaired leaks as needed. Waiting on permit from DOGGR.
9/22/2016	Held safety meeting. Field pressure was 1259 psi. Tubing & casing had 0 psi. Bled down well. Kris Gustafson with DOGGR performed BOPE inspection. Received permit to perform work on well. Unlanded & laid down tubing hanger. Pulled out of the hole with 110 joints of 2-7/8" 6.5 EUE N80 work string. Shut down waiting on Noise log on FF-32E. Pulled load guy lines & spotted 500 bbl return tank to unload FF-32A & FF-32F. Pulled out of the hole with 10 joints of 2-7/8" 6.5# EUE N80 tubing. Blew hydraulic hose on rig. Waiting on mechanic. Closed in well & secured rig. Cleaned location.
9/23/2016	Held safety meeting. Field pressure was 1266 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole 108 joints of 2-7/8" EUE N80 tubing. Ran in the hole with WFT retrieving head & 228 joints @ 7095'. Changed well over with 428 bbls of 8.5# polymer. Ran in the hole to 7158'. Closed in well & secured rig. Cleaned location.
9/24/2016	Held safety meeting. Field pressure was 1262 psi. Tubing & casing had 400 psi. Bled down well. No gas. Broke circulation and cleaned out sand from 7168' to 7178' top of RBP. Opened bypass & well went on a vacuum. Pumped 60 bbbls of 110 hi visc sweep and displaced with 41 bbls of 8.5# polymer. Engaged RBP @ 7178' and opened bypass. Let well stabilize. Released RBP & pulled out of the hole. Made up & ran in the hole with 7.7625 OD string mill, 5' - 5-5/8" pony collar, 7.7625 OD string mill & 2- 4-3/4 OD drill collars below 50 joints of 2-7/8" EUE N80 tubing. Closed in well & secured rig. Cleaned location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
9/26/2016	Held safety meeting. Field pressure was 1263 psi. Tubing & casing had 0 psi. Bled down well. Pumped 18 bbls to fill hole. Ran in the hole with 7.7625" gauge mills and tagged @ 6583'. Rigged up 90 ton Ensign power swivel. Dressed up 8-5/8" casing from 6580' to 6600'. Continued runnuing in the hole and tagged liner top at 7204' (no other restrictions found). Pulled out of the hole. Laid down dual string mill assembly. Made up & ran in the hole with 7-3/8" cut lip shoe, 3 joints of 7-3/8" washpipe and 50 joints of tubing @ 1651'. Closed in well & secured rig. Cleaned location.
9/27/2016	Held safety meeting. Field pressure was 1263 psi. Tubing & casing had 0 psi. Bled down well. Continued running in the hole with 3 joints of 7-3/8" washpipe to 7204' top of liner. Pulled out of the hole and laid down washpipe & 2- 4-3/4" drill collars. Made up & ran in the hole with 6-5/8" 28# positive scraper and bumper sub to 7657', 19' of fill. Pulled to 7040'. Closed in well & secured rig. Cleaned location.
9/28/2016	Held safety meeting. Field pressure was 1263 psi. Tubing & casing had 0 psi. Bled down well. Continued pulling out of the with 6-5/8" 28# scraper assembly. Laid down scraper. Made up 6-5/8" 28# retrievable bridge plug with 7-1/8" stop above retrieving head. Ran in the hole with 232 joints. Tagged top of liner @ 7204' with COE @ 7216'. Moved bridge plug up 7' with COE @ 7209'. Set bridge plug. Released retrieving head and pulled out of the hole. Ran in the hole with 8-5/8" WFT fullbore packer to 620'. Tested to 500 psi. Good test. Continued running in the hole with packer @ 3722' and tail @ 3850'. Closed in well & secured rig. Cleaned location.
9/29/2016	Held safety meeting. Field pressure was 1260 psi. Tubing & casing had 0 psi. Bled down well. Ran in the hole from 3722' & set COE on 8-5/8" fullbore packer @ 3744', and tested to 6-5/8" bridge plug @ 7209' to 1100 psi. Held for 20 minutes. Good test. Released packer and ran in the hole with tail below packer @ 7089'. Poured 11- 50# sacks of 20-40 mesh sand down tubing, followed with 30 bbls of kill fluid. Tagged sand cap @ 7190'. Pulled out of the hole and ran kill 1554'. Prepped location for 6-5/8" inner string. Closed in well & secured rig. Cleaned location.
9/30/2016	Held safety meeting. Field pressure was 1260 psi. Tubing & casing had 0 psi. Bled down well. Changed out pipe rams from 2-7/8" to 6-5/8". Redressed 11" tubing hanger. Made up hanger on kill string and landed. Made up 6-5/8" testpup to tubing hanger. Tested 6-5/8" rams 300 psi low and 5000 psi high. Both test held for 20 minutes. Good test. Hauled in and unloaded 170 joints of 6-5/8" 28# L80 buttress casing with turned down collars. Installed centralizers on to casing. Closed in well & secured rig. Cleaned location.
10/3/2016	Held safety meeting. Field pressure was 1268 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole with 50 joints of 2-7/8" EUE N80 kill string. Installed 6-5/8" centralizers. Ran in the hole with 40 joints of 6-5/8" 28# BTC L80 casing with shoe @ 1720'. Filled casing with kill fluid every 25 joints(1 centralizer per joint for first 22 joi nts and 1 centralizer on every other joint after). Closed in well & secured rig. Cleaned location.
10/4/2016	Held safety meeting. Field pressure was 1268 psi. Tubing & casing had 0 psi. Bled down well. Ran in the hole with 110 joints of 6-5/8" 28# BTC L80 casing with float shoe @ 7184' (with a total of 150 jts in the hole). Filled casing every 25 joints. Rigged up pump. Filled casing with 90 bbls and circulated @ 40 bbls thru float shoe. Closed in well & secured rig. Cleaned location.
10/5/2016	Held safety meeting. Field pressure was 1267 psi. Tubing & casing had 0 psi. Bled down well. Hauled off 16 joints of 6-5/8" casing. Moved in and spotted roll-off bins. Moved in and spotted Haliburton cementers. Rigged up cementing lines and return lines. Rigged up cement head to 6-5/8" casing. Spotted fresh water trucks. Pumped 3 bbls of fresh water & pressure tested surface lines to 500 psi low & 3500 psi high followed by 20 bbls of mud push, 150 bbls of 11.0# Class G lead cement (842 cuft & 255 sx), 13 bbls of 14.8# Class G tail cement (73 cuft & 40 sx). Dropped plug and displacement with 5 bbls of fresh and 228 bbls of polymer. Bumped plug and pressured up to 3382 psi. Set casing slips with 160K & tested to 750 psi, held for 15 minutes. Good test. Pulled BOPE stack and cleaned out wellhead to slips. Slips looked good. Set stack back on wellhead and tighten bolts. Closed in well & secured rig. Cleaned location.

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DEPARTMENT OF CONSERVATION
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
10/6/2016	Held safety meeting. Field pressure was 1267 psi. Tubing & casing had 0 psi. Bled down well. Removed BOPE. Rigged up Cameron and cut 6-5/8" casing and prepped for tubing spool. Installed & tested tubing spool. Energized P seals. Tested void & between P seals to 300 psi low & 5000 psi high. Good test. Changed pipe rams from 6-5/8" to 2-7/8". Installed 7-5/8" x 11" crossover spool & Class III BOPE. Pressure tested 11" 5M hydril bag to 300 psi low & 3500 psi high. Pressure tested 2-7/8" pipe rams, 7-1/16" 5M x 9"5M, 9" 5M x11" 5M crossover spools and choke flange to 300 psi low & 5000 psi high. All test were 20 minute tests. Closed in well & secured rig. Cleaned location.
10/7/2016	Held safety meeting. Field pressure was 1267 psi. Tubing & casing had 0 psi. Bled down well. Rigged up Pros. Pressure tested 6-5/8" 28# casing from surface to top of float shoe @ 7183' to 3736 psi. Held for 1 hour with final pressure was at 3712 psi. A loss of 24 psi. Witnessed by Ellan Moser with DOGGR. Ran in the with with 5-5/8" bit assembly. Tagged down @ 7157' 25' of cement. Rigged up 90 ton power swivel. Cleaned out cement from 7157' to top of float shoe @ 7182'. Drilled up wiper plug and thru shoe from 7182' to 7184'. Cleaned out an additional 5' of cement to 7189'. Fell thru and tagged sand @ 7196'. Reversed clean. Loaded out power swivel. Pulled 140 joints of 2-7/8" 6.5# EUE N80 tubing. Closed in well & secured rig. Cleaned location.
10/8/2016	Held safety meeting. Field pressure was 1269 psi. Tubing & casing had 0 psi. Bled down well. Pulled out of the hole with 86 joints of 2-7/8" 6.5# EUE N80 tubing. Stood back drill collars and broke off bit. Moved in and spotted Western Wireline. Rigged up logging tools. Ran in the hole and logged 6-5/8" casing from 7184' to surface. Rigged down logging tools. Rigged down Western wireline. Closed in well & secured rig. Cleaned location.
10/10/2016	Held safety meeting. Field pressure was 1269 psi. Tubing & casing had 0 psi. Bled down well. Moved in & spotted Schlumberger Wireline unit. Installed shooting flange. Rigged up logging tools and found cement residuals on tools. Laid down tools & removed shooting flange. Made up & ran in the hole with 6-5/8" positive set scraper with bumper sub below 231 joints of 2-7/8" 6.5# EUE N80 tubing to 7184'. Circulated hole clean. Pulled out of the with 231 joints of 2-7/8" 6.5# EUE N80 tubing. Laid down 6-5/8" scraper assembly. Installed shooting flange. Closed in well & secured rig. Cleaned location.
10/11/2016	Held safety meeting. Field pressure was 1270 psi. Tubing & casing had 0 psi. Bled down well. Rigged up Schlumberger Wireline unit & logging tools. Ran in the hole with USIT & CBL to 7154' & transduser would not function. Pulled out of the hole. Function tested transduser & tested good. Ran in the hole and logged from 7184' to surface. Re-ran logging tools to 7184' & looged with 1000 psi on casing from 7184' to 1300'. Raised pressure to 2000 psi and logged to surface. Laid down tools & removed shooting flange. Loaded out equipment. Closed in well & secured rig. Cleaned location.
10/12/2016	Held safety meeting. Field pressure was 1269 psi. Tubing & casing had 0 psi. Bled down well. Rigged up Baker Hughes Wireline unit & logging tools. Ran in the hole with vertilog and stacked out @ 1000'. Worked tool down to 1300' fell thru to 2163'. Could not get deeper. Pulled out of the hole and changed out tools. Ran in the hole with bottom of tool @ 52' and top @ 10'. Logging tool stuck. Pulled tool out of rope socket. Ran 4-11/16" overshot with 4' extension & 3-3/8" grapple. Engaged & pulled loose fish. Pulled out of the hole and laid down logging tools. Removed fish from overshot. Broke down & loaded out fishing tools. Made up & ran in the hole with WFT retreiving tool below 110 joints of 2-7/8" 6.5# EUE N80 tubing with bottom of retrieving tool @ 3450'. Closed in well & secured rig. Cleaned location.
10/13/2016	Held safety meeting. Field pressure was 1269 psi. Tubing & casing had 0 psi. Bled down well. Continued running in the hole with 132 joints of 2-7/8" 6.5# EUE N80 tubing (232 total). Rigged up king swivel. Circulated out sand cap from 7195' to top of 6 -5/8" bridge plug @ 7205'. Circulated clean & circulated down over bridge plug. Released bridge plug and monitored well. Pulled out of the hole with 232 joints of 2-7/8" 6.5# EUE N80 tubing. Laid down bridge plug. Picked up & broke down 6-5/8" scraper assembly. Loaded out equipment. Made up & ran in the hole with 2-7/8" reverse tooth collar, 6-5/8" brushes & 228 joints of 2-7/8" 6.5# EUE N80 tubing with reverse tooth collar @ 7164'. Closed in well & secured rig. Cleaned location.

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 C Sec 27 3N 16W S.B.B.M.
A.P.I. No. 03721359 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 11/29/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
10/14/2016	Held safety meeting. Field pressure was 1270 psi. Tubing & casing had 0 psi. Bled down well. Continued running in the hole and tagged @ 7657' with 247 joints of 2-7/8" 6.5# EUE N80 tubing & 6-5/8" brushes. Rigged up king swivel. Circulated out 17' of fill to7674', could not get deeper. Circulated clean. Laid down 19 joints. Stood back 50 joints. Continued pulling out of the hole laying down remaining tubing string. Ran in the hole with 50 joints for kill string. Landed tubing crossed back over to 4-1/2" pup joint for ram change. Change out pipe rams. Tested rams to 300 psi low & 5000 psi & charted. Good test. Closed in well & secured rig. Cleaned location.
10/17/2016	Held safety meeting. Field pressure was 1269 psi. Tubing & casing had 0 psi. Bled off well. Pumped 2 bbls of 8.5# polymer down casing. Pulled out of the hole & laid down 50 joints of 2-7/8" eue 6.5# J55 tubing. Laid down 4- 4-1/78 drill collars. Hauled in 6-5/8" 28# WFT packer completion assembly and offloaded onto location. Rigged up WFT torch tongs. Spotted Western Wireline. Ran in the hole with 4-1/2" wireline re-entry guide, XN nipple with 2.75 seal bore w/ 2.635 no-go, 6' x 3-1/2" TCPC pup joint, WFT 6-5/8 28# Arrow packer, 10' x 3-1/2" 9.3# TCPC pup joint, 1 joint of 3-1/2" TCPC tubing, X nipple with 2.812 profile, 1 joint of 3-1/2" TCPC tubing, 2' x 3-1/2" 9.3# TCPC pup joint, 4-1/4" OD Durasleeve sliding sleeve with a 2.812 profile, 4' x 3-1/2" 9.3# TCPC pup joint, crossover from 3-1/2" TCPC to 4-1/2" TSH 513, 4 joints of 4-1/2" 12.6# L80 TSH 513 tubing. Rigged up Western Wireline and set plug in XN nipple. Filled tubing. Rigged up Pros & performed bundle test to 4000 psi. Had a 1 to 2 psi bleed off per minute. Found small leak in testers needle valve. Changed out needle valve. Tested to 4000 psi and held for 20 minutes & lost 5 psi. Good test. Bled down. Rigged down Pros. Bled off pressure. Rigged up WFT hydro tester. Ran in the hole with 51 joints of 4-1/2" 12.6# L80 TSH 513 tubing (55 jts of 4-1/2"). Closed in well & secured rig. Cleaned location.
10/18/2016	Held safety meeting. Field pressure was 1269 psi. Tubing & casing had 0 psi. Bled off well. Pumped 15 bbls of polymer to fill tubing tubing to insure tubing is full and circulated an additional 13 bbls. Rigged up Western Wireline slickline unit and pulled one way valve in XN nipple. Ran in the hole & set plug in XN nipple. Rigged up Pros and bundled tested tubing string to 4000 psi. Good test. Pulled plug & installed one way valve in XN nipple. Ran in the hole with 86 joints of 4-1/2" 513 hyd tubing to 4532' & hydro tested tubing to 4000 psi. Closed in well & secured rig. Cleaned location.
10/19/2016	Held safety meeting. Field pressure was 1277 psi. Tubing had 40 psi & casing had 0 psi. Bled off well. Ran in the hole with 83 joints of 4-1/2" 513 hyd tubing to 7178' & hydro tested tubing to 4000 psi. Made up tubing hanger and landed tubing. Pumped 100 bbls of packer fluid and followed with 50 bbls of polymer. Set packer with 30K of compression, COE @ 7166.73'. Tested casing to packer 1000 psi. Good test. Closed in well & secured rig. Cleaned location.
10/20/2016	Held safety meeting. Field pressure was 1266 psi. Tubing had 0 psi & casing had 0 psi. Bled off well. Rigged up Western Wireline slickline unit. Pulled one way valve & ran tubing plug. Set plug @ 7175'. Pulled out of the hole. Rigged down Western wireline. Pressure tested casing to 1130 psi, with final pressure @ 1147 psi. Pressured up tubing to 3755 psi, final pressure @ 3745'. Both test were held for one hour & witnessed by Curtis Wetly with DOGGR. Rigged down tubing equipment. Removed work floor. Removed 11" hydril annular. Closed in well & secured rig. Cleaned location.
10/21/2016	Held safety meeting. Field pressure was 1269 psi. Tubing had 0 psi & casing had 0 psi. Bled off well. Removed double gate. Installed wellhead tree with mastergate & tree cap only. Tested to 300 psi low & 5000 psi high. Rigged down and moved to FF-32B.

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DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 D Sec. 27, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721356 Name Todd Van de Putte (Person submitting report) Title Storage Engineering Manager (President, Secretary, or Agent)
Date 2/14/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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12/26/2013	Held safety meeting with the rig crew. Rigged up the Onyx separator unit. Opened the well with 2102 psig surface pressure on the tubing and the casing. Pumped 50 bbl of high vis HEC polymer displaced with 43 bbls of 8.5 ppg KCl brine. Killed the well per schedule with 480 bbl of 8.5 ppg KCl brine. Installed the BPV and nippled down the production tree. Nippled up the Class III 5M BOPE, removed the BPV and secured the well.
12/27/2013	Rigged up the 3" choke line and the auxillary kill line. Rigged up the WEA test truck. Pressure tested the blind rams to 300 psig (low) and 5000 psig (high) for twenty minutes (test good). Pressure tested the pipe rams to 300 psig (low) and 5000 psig (high) for twenty minutes (test good). Pressure tested the Hydril annular preventer to 300 psig (low) and 3600 psig (high) for twenty minutes (test good). Pressure tested the choke manifold and all the control valves to 300 psig (low) and 5000 psig (high) for twenty minutes (All tests good). Rigged and pumped 360 bbl of 8.5 ppg KCl brine to kill the well. Circulated the well and secured the well.
12/30/2013	Opened the well with 1200 psig surface pressure on the casing and 350 psig on the tubing. Rigged up and pumped 50 bbl of hi-vis HEC polymer and displaced with 41 bbls of 8.5 ppg KCl brine. Pumped 356 bbl of annular volume and circulated out the gas cut fluids and secured the well.
12/31/2013	Rigged up and pumped a 50 bbl HEC polymer pill with 7 ppb of calcium carbonate. Displaced with 41 bbl of 8.5 ppg KCl brine. Killed the well per schedule with 356 bbl of 8.5 ppg KCl brine and the well remained dead. Backed out the hold hold down studs on the wellhead and unlanded the completion tubing. Attempted to release from the Otis permanent packer at 7054' and secured the well.
1/2/2014	Opened the well with 0 psig surface pressure on the tubing and 50 psig on the casing. Filled the well with 97 bbl of 8.5 ppg KCl brine. Moved in and rigged up the Tiger wireline unit and made up 2-7/8" tubing cutter. Ran in the well, correlated and cut the 2 -7/8" tubing at 7029'. Rigged down and moved out the wireline unit. Pulled out of the well and laid down the 2-7/8",6.5# J-55 production tubing to a kill string at 2375' and secured the well.
1/3/2014	Filled the well with 79 bbl of 8.5 ppg KCl brine. Pulled out of well and continued to lay down the 2-7/8" production tubing. Changed trailers and made up an 5-3/4" overshot with 2.875' grapple, a bumper sub and tubing jars on the 2-7/8", 6.5# P-110 workstring. Measured and picked up the 2-7/8", 6.5#, P-110 TKC workstring and made up to Tuboscope specs. Measured and pick up the 2-7/8" workstring to 3162' and secured the well.
1/6/2014	Opened the well with 1000 psig surface pressure on the tubing and 100 psig on the casing. Rigged up and bled down the casing and filled the well with 150 bbl of 8.5 ppg KCl brine and circulated out the gas cut brine. Continued measuring and picking up 2-7/8" TKC workstring to the top of the fish at 7029'. Engaged the fish and attemped to release from the Otis packer at 7050'. Worked and jarred on the Otis seal assembly at 100,000 lb (60,000 lb over string weight). Worked and jarred on the fish, pulled free, pulled out of the well to a kill string at 3828' and secured the well.
1/7/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 105 bbl of 8.5 ppg KCl brine. Pulled out of the well to the fish (recovered 10' cut off and the Otis seal assembly). Laid down the fishing tools and made up a WEA 8-5/8" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to the top of the Otis packer at 7042'. Pulled out of the well to a kill string at 2400' and secured the well.
1/8/2014	Filled the well with 100 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the 8-5/8" casing scraper. Made up a WEA 8-5/8" bridge plug on the 2-7/8" workstring and ran in the well to 2224'. Set the bridge plug, filled the well and attempted to pressure test(pumped away at 2 bpm @ 300 psig). Ran in the well to 2800' set the bridge plug, filled the well and attempted to pressure test (pumped away at 2 bpm @ 300 psig). Pulled out of the well to 1088', set the bridge plug, filled the well and pressure tested to 500 psig. Ran in the well to 7042', set the bridge plug, filled the well and attempted to pressure test (pumped at 2 bpm @ 300 psig). Dumped 15' sand on top of the bridge plug, pulled out of the well to 5700' and secured the well.

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 D Sec. 27, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721356 Name Todd Van de Putte (Person submitting report) Title Storage Engineering Manager (President, Secretary, or Agent)
Date 2/14/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
1/9/2014	The well required 83 bbl of 8.5 ppg KCl brine to fill. Pulled out of the well and laid down the 8-5/8" casing scraper. Nippled up the shooting flange on the BOPE. Moved in and rigged up the Schlumberger wireline unit. Made up the USIT tools, ran in the well to 7042' and ran USIT log to the surface. Rigged down and moved out the Schlumberger wireline unit. Made up a WEA 8-5/8" test packer on the 2-7/8" workstring. Ran in the well to 2100' and secured the well.
1/10/2014	Filled the well with 79 bbl of 8.5 ppg KCl brine. Set the WEA 8-5/8" test packer at 2106' and pressure tested below the test packer to the bridge plug at 7042' to 500 psig (pumped 1 bpm @ 500 psig). Released the test packer and ran in the well to 5017', set the test packer and pressure tested to 500 psig (pumped 1 bpm @ 500 psig). Released the test packer, ran in the well to 6000', set the test packer and pressure tested to 500 psig (pumped 0.5 bpm @ 500 psig). Released the test packer, ran in the well to 6500', set the test packer and pressure tested to 500 psig (pumped 0.5 bpm @ 500 psig). Released the test packer ran in the well to 6694', set the test packer and pressure tested to 500 psig (pumped 0.5 bpm @ 500 psig). Released the test packer and pulled out of the well. Made up an WEA 8-5/8" packer/bridge plug combo on the 2-7/8 workstring. Ran in the well to 2517' and secured the well.
1/13/2014	Filled the well with 25 bbl of 8.5 ppg KCl brine. With the 8-5/8" bridge plug at 7012', pulled to 6000' and pressure tested to 500 psig (bottom hole pressure 3152 psig; test no good). Released the test packer, ran in the well to 6503', set the test packer and pressure tested to 500 psig (test good). Released the test packer and pulled to 6410', set the test packer and pressure tested to 500 psig (test good). Released the test packer and pulled to 6282', set the test packer and pressure tested to 500 psig (test no good). Released the test packer and moved to 6354', set the test packer and pressure tested to 500 psig (test good). Released the test packer and moved up the hole to 6314', set the test packer and pressure tested to 500 psig (no good). Released the test packer and moved to 6330', set the test packer and pressure tested to 500 psig (test good). Moved the retrieveable bridge plug to 6300', set the test packer at 6282' and pressure tested to 500 psig (test good). Leak in the 8-5/8" production casing located between 6310' to 6330'. Moved the retrieveable bridge plug to 6000' and the test packer to 5000', pressure tested to 800 psig (test good). Released the packer and secured the well.
1/14/2014	Filled the well with 25 bbl of 8.5 ppg KCl brine. Moved the 8-5/8" retrieveable bridge plug to 5000', set the bridge plug, moved the test packer to 4000', set the test packer and pressure tested to 1200 psig for 10 minutes (good test). Ran in the well, released the bridge plug, moved to 4000'. Pulled to 3000' and set the test packer and pressure tested to 1650 psig for ten minutes (good test). Ran in the well, released the retrieveable bridge plug and moved to 3000'. Pulled the test packer to 1979', set the test packer and pressure tested to 2100 psig (good test). Moved the test packer to 1960', set the test packer and pressure tested to 2100 psig (communication with tubing). Moved the test packer to 1979', set the test packer and pressure tested to 2100 psig (good test). Secured the well with the test packer at 2400'.
1/15/2014	Filled the well with 32 bbl of 8.5 ppg KCl brine. Pulled out of the well with the 8-5/8" test packer (found the packer elements damaged). Made up a new 8-5/8" test packer on the 2-7/8" workstring. Ran in the well to 1000', set the test packer and pressure tested teh workstring x casing annulus to 2700 psig for ten minutes (test good). Ran in the well to 1959', set the test packer and pressure tested the workstring x casing annulus to 2200 psig for ten minutes (test good). Ran in the well to 3000', retrieved the bridge plug and pulled to 1986', set the bridge plug. Pulled to 1960', set the test packer and pressure tested to 2200 psig (no test). Ran in the well to 1986' retrieved the bridge plug and pulled out of the well. Found packer element stuck in the tool. Ran in the well to a kill string at 2500' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 D Sec. 27, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721356 Name Todd Van de Putte (Person submitting report) Title Storage Engineering Manager (President, Secretary, or Agent)
Date 2/14/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
1/16/2014	The well required 33 bbl of 8.5 KCl brine to fill. Pulled out of the well with a kill string and made up an 8-5/8" retrievable bridge plug on the 2-7/8" workstring. Ran in the well to 550', set the bridge plug and attempted to pressure test (No test). Released the bridge plug and moved up the hole to 1040', set the bridge plug and attempted to pressure test (No test). Pulled out of the well and laid down the 8-5/8" retrievable bridge plug. Made up a new 8-5/8" retrievable bridge plug on the 2-7/8" workstring. Ran in the well to 550', set the bridge plug and attempted to pressure test (No test). Ran in the well with the retrieveable bridge plug to 1960', set the bridge plug and attempted to pressure test (No test). Pulled out of the well and laid down the 8-5/8" retrieveable bridge plug. Made up an 8-5/8" test packer on the 2-7/8" workstring. Ran in the well to 550', filled the well and pressure tested the 8-5/8" production casing to 2000 psig for ten minutes (Good test). Ran in the well to 1960', set the test packer and pressure tested the workstring x production casing annulus to 2000 psig for ten minutes (Good test). Released the test packer and secured the well.
1/17/2014	Filled the well with 100 bbl of 8.5 ppg KCl brine. Pulled out of the well with the 8-5/8" test packer and laid down the test packer. Made up an 8-5/8" Arrowset retrievable bridge plug on the 2-7/8" workstring. Ran in the well to 480', set the bridge plug, filled the well and pressure tested to 500 psig. Released the retrieveable bridge plug, ran in the well to 2030', set the bridge plug, released from the setting tool and pulled out of the well. Made up an 8-5/8" test packer on the 2-7/8" workstring. Ran in the well to 1980', set the test packer and pressure tested to 2000 psig for twenty minutes (Test good). Released the test packer and pressure tested to surface to 2000 psig for twenty minutes (Test good). Pulled out of the well, laid down the test packer and made up a bridge plug retrieving tool on the 2-7/8" workstring. Ran in the well to 2030', released the bridge plug and ran in the hole to a kill string at 2450' and secured the well.
1/21/2014	Filled the well with 67 bbl of 8.5 ppg KCl brine. Pulled out of the well with the 8-5/8" retrieveable bridge plug (Left the retrieveable bridge plug in the hole). Ran in the well to 2000', engaged the retrievable bridge plug, pulled out of the well and laid down the bridge plug. Made up a retrieving tool on the 2-7/8" workstring. Ran in the well to the sand at 7027', nippled up the PGSR and secured the well.
1/22/2014	Filled the well with 55 bbl of 8.5 ppg KCl brine. Rigged up and reverse circulated the sand out the well and rubber pieces from the top of the bridge plug at 7042' and circulated the well clean. Released the bridge plug and pulled out of the well (Bridge plug hanging up on rubber pieces). Laid down the bridge plug. Made up the new 8-5/8" Arrowset bridge plug on the 2-7/8" workstring. Ran in the well to a kill string at 2600' and secured the well,
1/23/2014	The well was filled with 53 bbl of 8.5 ppg KCl brine. Ran in the well to 3720', set the bridge plug and pressure tested to 600 psig for ten minutes (Test good). Ran in the well to 7040', set the bridge plug, and pressure tested to 600 psig (Pumped away at 1 bpm @ 400 psig). Rigged up and place 15 cuft of sand with the top of the bridge plug with the top of the sand at 7025'. Pulled out of the well and made up an 8-5/8" test packer on the 2-7/8" workstring. Ran in the well to 1000', set the test packer, filled the well and pressure tested to 3000 psig for ten minutes (Test good). Released the test packer and ran in the well to 2010', set the test packer, filled the well and pressure tested to 2500 psig for ten minutes. Released the test packer, ran in the well to 3022' and secured the well.
1/24/2014	Filled the well with 61 bbl of 8.5 ppg KCl brine. Ran in the well to 3022', set the test packer, filled the well and pressure tested the workstring x casing annulus to 2100 psig (3400 psig bottom hole) for ten minutes (Test good). Released the test packer, ran in the well to 4035', set the test packer, filled the well and pressure tested the workstring x casing annulus to 1700 psig (3400 psig bottom hole) for ten minutes (Test good). Released the test packer, ran in the well to 5048', set the test packer and pressure tested the workstring x casing annulus to 1200 psig (3400 psig bottom hole) for ten minutes (Test good). Released the test packer, ran in the well to 6314', filled the well, and pressure tested the workstring x casing annulus to 700 psig for ten minutes (Test good). Pressure tested below the test packer (pump in rate at 1 bpm @ 500 psig). Released the test packer and moved it to 6319'. Pressure tested below the test packer to 500 psig for ten minutes (Test good). Casing leak located from approximately 6314' to 6319'. Pulled to a kill string at 2550' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 D Sec. 27, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721356 Name Todd Van de Putte (Person submitting report) Title Storage Engineering Manager (President, Secretary, or Agent)
Date 2/14/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
1/27/2014	Filled the well with 62 bbl of 8.5 ppg KCl brine. Pulled out of the well and rigged up the Tiger wireline unit. Made up a 4" perforating gun on wireline and ran in the well, correlated and shot 8, 0.5" holes at 6317'. Rigged down and moved out the Tiger wireline unit. Pumped into the perforations at 2.5 bpm @ 400 psig. Made up (10) joints, 2-7/8" tubing tail and a 8-5/8" squeeze packer, ran in the well to 5300' and secured the well.
1/28/2014	Filled the well with 65 bbl of 8.5 ppg KCl brine. Ran in the well with the 8-5/8" squeeze packer to 6033', with tubing tail at 6340'. Set the test packer, filled the well and pressure tested the workstring x casing annulus to 500 psig for ten minutes. Released the test packer and secured the well.
1/29/2014	The well was filled well with 62 bbl of 8.5 ppg KCl brine. Rigged up the Halliburton cementing equipment and pressure tested the same. With the 2-7/8" tubing tail at 6339' mixed and pumped 16 bbls. (90 cuft, 50 sx) of 14.8 ppg, Class "G" cement with additives and displaced with 34 bbl of 8.5 ppg KCl brine (estimated top of cement at 6058'). Pulled out of the well to 5964' rigged up and reverse circulated with 50 bbl of KCl brine. (Trace of cement to surface). Rigged up and squeezed with 200 psig surface pressure, pressure bled off and secured the well.
1/30/2014	Filled the well with 8 bbl of 8.5 ppg KCl brine. Rigged up and pressure tested to to 700 psig (Pumped away at 0.4 bpm). Ran in the well to 6317'. rigged up and reverse circulated with 50 bbl of 8.5 ppg of KCl brine (trace of cement to surface). Set the test packer and pressure tested to 500 psig (Bled down to 0 psig in 30 seconds). Released the test packer and pulled out of well. Laid down the test packer and the tubing tail. Made up a mule shoe on the 2-7/8" workstring. Ran in the well to 6367' and secured the well.
1/31/2014	Filled the well with 8 bbl of 8.5 ppg KCl brine. Moved in and rigged up Halliburton cementing equipment and pressure tested same. With the tubing tail at 6366', mixed and pumped 16 bbl (90 cu. ft. 50 sx.) of 14.8 ppg Class "G" cement with additives and displaced with 33 bbl of KCl brine (Estimated top of the cement at 6094'). Pulled out of the well to 5889', rigged up and reverse circulated with 50 bbl of KCl brine (Trace of cement to the surface). Rigged up and filled the well with 2 bbl of 8.5 ppg KCl brine and squeezed from the surface with 1000 psig surface pressure. Monitored and secured the well.
2/4/2014	Opened the well with 200 psig on the tubing and the casing. The well was standing full of KCl brine. Ran in the well and tagged cement at 6205'. Rigged up and pressure tested to 600 psig (Test good). Pulled out of the well. Measured and picked up a 7-5/8" bit, a bit sub, and (4) 4-3/4" drill collars on the 2-7/8" workstring. Ran in the well to 6200', nippled up the PGSR, picked up the power swivel and secured the well.
2/4/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. The well was standing full of 8.5 ppg KCl brine. Cleaned out the cement from 6205' to 6327', pressure tested to 600 psig for ten minutes (Test good). Cleaned out the cement to 6350' and circulated the well clean. Ran in the well to the top of the sand at 7030' and reverse circulated the well clean. Pressure tested the casing to 600 psig for ten minutes (Test good). Rigged down and moved out the power swivel and secured the well.
2/5/2014	The well was standing full of 8.5 ppg KCl brine. Nippled down the PGSR and pulled out of the well. Laid down the (4) 4-3/4" drill collars, the bit sub and the 7-5/8" bit. Rigged down the tubing equipment and the working floor. Cleaned the cellar, attempted to remove the wellhead bolts and secured the well.
2/6/2014	Nippled down the Class III 5M BOPE. Attempted to loosen the remaining well head bolts (Gas co issused hot work permit). Attempted to cut and grind wellhead bolts from the wellhead equipment. Nippled up the production tree and attempted to remove the tubing head and secured the well.
2/7/2014	Pulled a hot work permit for the wellhead work. Continued cutting the wellhead bolts from the wellhead equipment. Removed the tubing head and the primary seals. Nippled up a crossover spool and the Class III 5M BOPE. Rigged up the working floor and installed a shooting flange and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 32 D Sec. 27, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721356 Name Todd Van de Putte (Person submitting report) Title Storage Engineering Manager (President, Secretary, or Agent)
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Start Date	Ops this Report (DOGGR)
2/10/2014	The well was standing full of 8.5 ppg KCl brine. Rigged up the Schlumbger wireline unit. Made up the 8-5/8" USIT tools, ran in well to 7026' and ran the USIT/Neutron log from 7026' to 5500'. Pulled out of the well and rigged down and moved out the Schlumberger logging unit. Rigged down the working floor and secured the well.
2/11/2014	Held safety meeting with crews work as directed labor only
2/18/2014	The well was standing full of 8.5 ppg KCl brine. Nippled down the Class III 5M BOPE and the cross over spool. Installed a new primary seal, a refurbished seal flange and a refurbished tubing head. Pressure tested the primary seals, the seal flange and the secondary seal to 3200 psig for twenty minutes (All tests good) . Nippled up the Class III 5M BOPE and function tested. Rigged up the working floor and the tubing equipment. Made up a bridge plug retrieving head on the 2-7/8" workstring. Ran in the well to 1000' and secured the well.
2/19/2014	Ran in the well with the bridge plug retrieving tool to the bridge plug at 7033'. Rigged up and reverse circulated the sand from the top of the bridge plug and circulated the well clean. Opened the unloader, equalized the wellbore fluids and released the bridge plug. Pulled out of the well to a kill string at 2200' and secured the well.
2/20/2014	Pumped 20 bbl of 8.5 ppg KCl brine to fill the well. Pulled out of the well and laid down the bridge plug. Measured and picked up (10) joints of 2-1/16" tubing ran in the well with the 2-7/8" workstring and 2-1/16" tail and tagged at 7221' (TD at 7241'; 20' of fill). Pulled out of the well laying down the 2-7/8" TKC workstring to 4000' and secured the well.
2/21/2014	Continued to pull out of the well laying down the 2-7/8" TKC workstring. Pulled out of well and laid down the (10) joints of 2-1/16" tubing. Ran in well to 1600' with a kill string and secured the well.
2/24/2014	Filled the well 30 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the 50 joints of the kill string. Measured and picked up (1) joint of new 2-7/8",6.5#, L-80 tubing, a WEA 8-5/8" production packer, (1) jt of new 2-7/8", 6.5# L-80 tubing , a WEA WXN no/go nipple, (1) jt of new 2-7/8" tubing , a WEA sliding sleeve, (1) jt of 2-7/8" tubing, a gas lift mandrel. Measured and picked up 2-7/8", 6.5#, L-80 tubing to 4300' and secured the well,
2/25/2014	Pumped 20 bbl of 8.5 ppg KCl brine to fill the well. Measured and picked up 2-7/8" tubing to 7036', made up the tubing hanger and landed the completion with 12,000 lb compression. Filled the well with 138 bbl of 8.5 ppg KCl brine and pressure tested the tubing x casing annulus to 500 psig surface pressure for twenty minutes. Nippled down the Class III 5M BOPE. Nippled up the production tree and secured the well.
2/26/2014	Held a safety meeting with crews and rigged down the pump and the associated rig equipment. Rigged down the hoist and prepare to move to FF 36 . Installed the laterals. Loaded the BOPE and cleaned the location.

8/22

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County Aliso Canyon
Well name and No. I.W. #58, Sec. 27, T 3N, R 16W, S.B. & M.
A.P.I. well No. 037-21321 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date August 9, 1977

Signature P. S. Magruder Jr.

P. O. Box 3249, Terminal Annex, Los Angeles, California 90051 (Address) (213) 689-3561 (Telephone Number)

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Date	
1976	
11-2	Killed well with 450 barrels of 81#/cu.ft. polymer fluid.
11-3	Circulated 880 barrels of polymer fluid.
11-14	Inadvertently injected gas into casing at 3000 psi.
19	Shot fluid levels in tubing and casing and determined 128 barrels of kill fluid still in well.
11-22	Re-killed well with 325 barrels of 82#/cu.ft. polymer fluid.
1977	
5-4	Re-circulated well with 75# polymer fluid. Used 250 barrels to regain circulation.
5-7	Re-killed well with 250 barrels of 73#/cu.ft. polymer fluid.
5-19	Moved In California Production Service Rig #D-4 and rigged up.
5-20	Circulated 73#/cu.ft. polymer drilling fluid and conditioned drilling fluid. Set plug in tubing hanger. Removed Christmas tree and installed B.O.P.E. Tested blind rams and pipe rams to 4000 psi with water and nitrogen for 20 minutes. Tested Hydril bag to 3000 psi with water and nitrogen for 20 minutes. Tests O.K. and witnessed by D.O.G. Removed tubing plug.
5-21	Worked tubing for 1-1/2 hours and could not release latch-in on packer. Ran McCullough free point - tubing free to 6975'. Cut tubing with chemical cutter at 6945'. Well started to flow. Circulated out gas cut mud. Removed tubing hanger and closed well in.

OG 103 (4.76.GSRI-10M)

5-22-77 Rig and crew idle.

5-23-77 Circulated well for 2-1/2 hours. Started out of hole. Well started flowing with 3500' of tubing in hole. Circulated out gas. Ran back to 6900'. Increased mud weight to 77#/cu.ft. from 73#/cu.ft. Pulled to 5000'. Circulated for 2 hours. Circulated at 3000' for 1 hour and finished pulling out of hole. Made up 6 5/8" casing cutter. Ran to 2800'.

5-24-77 Finished going in hole. Cut 6 5/8" casing at 2939'. Pulled out of hole. Ran Bowen 6 5/8" 24# spear. Slips would not go in liner. Ran 6 5/8" 28# slips - could not get inside 6 5/8" casing patch.

5-25-77 Pulled out of well and recovered 16.72' of Burns lead seal hanger and 6 5/8" casing. Ran in well and jarred balance of 6 5/8" casing free. Pulled out and recovered all of 6 5/8" casing. Ran in well with 5" wash pipe shoe - 5 7/8" O.D. x 4 3/8" I D. Washed over tubing fish from 7140' to 7148'.

5-26-77 Washed over 2 7/8" tubing from 7148' to 7182'. Circulated hole clean. Pulled out of hole. Ran Baash-Ross overshot and latched on to fish, but jars would not work. Were unable to set slips in overshot in order to release packer.

5-27-77 Pulled out of well and changed jars and slips in overshot. Ran in hole and released latch-in. Pulled out and recovered all tubing. Ran in hole with 7 5/8" bit and scraper to 6998'. Circulated for two hours.

5-28-77 Pulled 7 5/8" bit and casing scraper. Ran and set DR plug in packer. Tested plug with 1500 psi - pressure fell to 800 psi in one minute. Circulated drilling fluid out of well with water. Started out of hole. Pulled one stand and well started to flow. Circulated water out of well with 75#/cu.ft. drilling fluid.

5-29-77 Rig and crew idle.

5-30-77 Circulated polymer fluid in hole. Pulled out 2 7/8" tubing. Set Johnston bridge plug at 3100'. Spotted 10 sacks of sand on top of bridge plug. Located sand at 3081' - well started to flow. Circulated to remove gas cut drilling fluid. Pulled out 2 7/8" tubing. Ran in Johnston cementing tool on 2 7/8" tubing. Located sand at 3081'. Pulled to 3058' and tested bridge plug to 1500 psi for 5 minutes. Tested casing above 2968' to 1500 psi for 5 minutes. Tested casing below 3009' to 1500 psi for 5 minutes. Pressure would not hold between 2968' and 3009'. Pulled to 2818'.

5-31-77 Circulated polymer fluid. Set Johnston retainer at 2818'. Obtained breakdown under 1000 psi at 9 cu.ft./minute rate. Squeezed 125 sacks of Class "G" cement preceded by 30 cu.ft. of water ahead and followed by 10 cu.ft. of water. Displaced 105 sacks of cement through leak at 2990' under 1200 psi final pressure. Pulled out. Ran in with bit and casing scraper. Drilled out cement from 2964' to 3024'. Pressure tested leak with rig pump at 1000 psi for 15 minutes - O.K. Circulated sand out of hole. Pulled out. Ran in hole with bridge plug retrieving tools.

6-1-77 Circulated polymer fluid. Pulled out with Johnston bridge plug. Ran 2 7/8" tubing to 7141'. Spotted 5 sacks of sand in 6 5/8" casing on top of bridge plug at 7169'. Located top of sand at 7153'. Circulated to recondition polymer fluid.

6-2-77 Pulled out tubing. Ran Noise Log by Triangle - confirmed shoe leak. Ran in with pilot mill on 2 7/8" tubing and milled out 6 5/8" liner from 7009' to 7015'. Circulated hole clean.

6-3-77 Milled 6 5/8" liner from 7015' to 7017'. Pulled out. Ran in hole with 7 5/8" x 4 3/4" mill.

6-4-77 Milled 6 5/8" liner from 7017' to 7026'. Circulated hole clean. Pulled out.

6-5-77 Rig and crew idle.

6-6-77 Pulled out of hole. Ran in hole with 7 5/8" x 4" pilot mill, two junk subs and eight drill collars. Milled from 7026' to 7030'.

6-7-77 Continued milling. Milled from 7030' to 7037'. Pulled out of hole. Ran in hole with 7 5/8" x 5 5/8" pilot mill, float sub, junk sub and two 7 5/8" stabilizers. Unable to mill. Started pulling out of hole.

6-8-77 Pulled out of hole. Ran in hole with 7 5/8" x 3 5/8" Servco pilot mill, two junk subs, eight drill collars and float sub. Milled from 7026' to 7030' (corrected pipe measurement). Pulled out of hole with 30 stands still in hole.

6-9-77 Pulled out of hole. Ran in with 6 3/4" x 5 5/8" pilot mill, four drill collars and float sub. Milled from 7030' to 7044'. Circulated hole clean.

6-10-77 Continued milling. Milled from 7044' to 7050'. Pulled out of hole. Ran in with new 6 3/4" x 5 5/8" A-1 pilot mill, four drill collars and a float sub. Milled from 7050' to 7053'.

6-11-77 Started milling 6 5/8" liner at 7053 - tubing parted at 6901'. Pulled out of hole. Ran in hole with Midway 5 3/4" overshot, 6 3/4" guide, 3 1/8" grapple and bumper sub. Latched on to fish. Pulled out of hole and recovered all fish. Laying down tubing to pick up drill pipe.

6-12-77 Rig and crew idle.

6-13-77 Finished laying down tubing. Measured and picked up 2 7/8" drill pipe. Ran in hole to 6968' with a new 6 3/4" x 5 5/8" A-1 pilot mill, four drill collars and a float sub.

6-14-77 Finished running 2 7/8" drill pipe. Tagged top of milling surface at 7044'. Milled from 7044' to 7063'.

6-15-77 Pulled out of hole with 29' of partially milled 6 5/8" liner and a centralizer. Ran in hole with 6 3/4" x 5 5/8" A-1 pilot mill, four drill collars and a float sub.

6-16-77 Continued milling on 6 5/8" liner. Milled from 7071' to 7094'. Pulled out of hole.

6-17-77 Finished pulling out of hole. Ran in with 6 3/4" x 5 5/8" A-1 pilot mill. Located top of milling surface at 7072'. Reamed to 7079' but were unable to mill further. Pulled out of hole. Recovered pieces of partially milled 6 5/8" liner. Ran in hole with 7 5/8" junk mill, bumper sub, jars and four drill collars. Located top of milling surface at 7077'. (Top of liner at 7094').

6-18-77 Using 7 5/8" junk mill, milled up cement and junk from 6 5/8" casing from 7077' to 7095'. Circulated well clean. Pulled out of well and ran 5 1/2" junk mill to clean out inside of 6 5/8" liner.

6-19-77 Rig and crew idle.

6-20-77 Ran in hole with 5 1/2" junk mill and cleaned out from 7082' to 7140'. Circulated hole for three hours. Started out of hole and stuck pipe. Worked pipe free. Repaired swivel.

6-21-77 Finished pulling out of hole. Ran in hole with 6 3/4" pilot mill. Milled from 7093' to 7116' (23'). Circulated for two hours. Pulled one stand.

6-22-77 Milled from 6 5/8" liner from 7116' to 7124'. Pulled out of hole and recovered 4' piece of liner on mill. Ran 7 5/8" junk mill and milled from 7103' to 7115'. Pulled up one stand.

6-23-77 Pulled out of hole - both subs full of metal. Ran 7 5/8" junk mill. Milled from 7115' to 7124'. Pulled out of hole. Started in hole with 4 5/8" O.D, 2" I.D. mill shoe.

6-24-77 Ran in hole with mill shoe. Cleaned out from 7122' to 7151'. Could not reverse circulation because of junk. Pulled out of hole. Ran in hole with 5 5/8" x 6 3/4" pilot mill.

6-25-77 Milled with 6 3/4" mill from 7124' to 7140'. Circulated hole clean. Started out of hole.

6-26-77 Rig and crew idle.

6-27-77 Pulled out of hole with 6 3/4" x 5 5/8" pilot mill. Ran in hole with Servco 7 5/8" junk mill. Cleaned out from 7112' to 7140'. Milled cement and 6 5/8" liner from 7140' to 7145'.

6-28-77 Pulled out of well with 7 5/8" junk mill. Ran in with Halliburton cement retainer. Achieved breakdown through WSO holes at 7122' under 3200 psi and with 14 cu.ft./minute rate. Retainer set at 7077'. Pumped in 100 sacks of Class "G" cement with retainer set at 6921'. Squeezed 90 sacks of cement through WSO holes at 7122' under final pressure of 2400 psi. Pulled out of well. Ran 42 stands in well with four drill collars, bit and scraper.

6-29-77 Ran in hole with 7 5/8" bit and scraper. Drilled out cement from 7063' to 7140'. Circulated polymer fluid to clean well. Pulled out of hole. Ran in with Halliburton cement retainer and set same at 7077'. Achieved breakdown through WSO holes at 7122' under 2900 psi and with 5 cu.ft. per minute rate. Attempted to set retainer at 7138' - unable to get past 7117'. Set retainer at 6983'. Pumped in 50 sacks of Class "G" cement and squeezed 38 sacks of cement through WSO holes at 7122' under final pressure of 4000 psi. Let cement stand under pressure for one hour. Bled off pressure. Pulled five stands.

6-30-77 Pulled out of well with Halliburton cement retainer. Ran in well with 7 5/8" bit and scraper. Drilled out cement from 7042' to 7145'. Circulated polymer fluid to clean well. Pulled out of well with 35 stands still in well.

7-1-77 Finished pulling out of well with 7 5/8" bit and scraper. Shot four 1/2" holes at 7104' with GO-International wireline unit. Ran in well with Lynes WSO tester and set it at 7050'. Opened tester for two hours. Last hour a

faint blow (flowing surface pressure less than two inches of water). Pulled out of well. Stylus mechansim on charts failed. Recovered 180' of polymer fluid in 2 7/8" drill pipe.

7-2-77 Ran in with Lynes WSO tester. Set tester at 7065'. Opened tester to WSO holes at 7104'. Light blow for first ten minutes. Very light blow for balance of the two hour test. Pulled out of well. Recovered 100' rise in 2 7/8" drill pipe - WSO by Company. Ran in well with Halliburton squeeze tool to 7000'.

7-3-77 Rig and crew idle.

7-4-77 Rig and crew idle.

7-5-77 Replaced polymer fluid in well with fresh water. Set Halliburton squeeze tool at 7079'. Applied 2000 psi pressure at wellhead - pressure dropped 200 psi in five minutes. Re-set Halliburton squeeze tool at 7108'. Applied 2000 psi pressure at wellhead - pressure dropped to 1800 psi in five minutes. Set squeeze tool at 7046', achieved breakdown at 2600 psi and rate of 8 cu.ft. per minute. Squeezed with 135 sacks of Class "G" cement under a final pressure of 3500 psi.

5-77 Pressure tested 8 5/8" casing using Halliburton RTTS tool, as follows:

3500'	to 7025'	(top of cement)	at 2000 psi	for 60	minutes
2500'	to Surface	"	3200 psi	" 60	"
2000'	"	"	3700 psi	" 60	"
1000'	"	"	4000 psi	" 60	"

All above tests O.K.
Pulled out of well. Ran in well with 7 5/8" bit and casing scraper. Drilled out cement from 7025' to 7106' and cleaned well up to 7145' (top of 6 5/8" liner). Started pulling out of well and drill pipe stuck. Worked from 9:00 P.M. to 2:00 A.M. circulating and pulling 2 7/8" drill pipe in singles. Pulled 11 singles - drill pipe came loose. Pulled out of well. Ran in well with Halliburton RTTS tool to 3500'.

7-7-77 Set Halliburton RTTS tool at 3500'. Pressure tested 8 5/8" casing from 3500' to 7176' at 2000 psi for 60 minutes test - O.K. Pulled out of hole. Ran in well with 5 1/2" reverse circulating junk basket and jars on 2 7/8" drill pipe to 7111'. Displaced fresh water with polymer drilling fluid. Cleaned hole to 7142'. Pulled out of well. Ran in well with 5 1/2" junk mill and four 3 3/4" drill collars.

7-8-77 Finished running in well with 5 1/2" junk mill. Milled to top of Baker DR plug at 7177'. Circulated polymer fluid in well to clean well. Started pulling out of well.

7-9-77 Finished pulling out of well with 5 1/2" junk mill. Ran in well with Baker DR plug retrieving tool. Recovered Baker DR plug from 7176'. Circulated polymer drilling fluid in well. Ran in well with GO-International casing patch for 8 5/8" casing and a Johnston mechanical collar locator. Using GO-International wireline unit, set patch - top of patch at 2967' - bottom of patch at 3009'.

7-10-77 Rig and crew idle.

7-11-77 Finished pulling out of well. Laid down "patch" setting tools. Ran Baker seals on drill pipe and stabbed into packer at 7176'. Pressured tested packer at 1800 psi - O.K. Circulated for two hours. Pulled out and laid down 2 7/8" drill pipe.

7-12-77 Finished laying down drill pipe. Made up production tube, seal assembly and safety system. Hydrotesting tubing in well.

7-13-77 Finished hydrotesting tubing in hole. Could not latch into packer. Circulated bottoms up. Pulled out of hole. Started in hole with 5.66" mill.

7-14-77 Finished going in hole with 5.66" tapered mill. Reamed from 7145' to 7179'. Circulated hole for 1-1/2 hours. Pulled out of hole. GO-International ran gauge ring to 7144'. Ran packer to 7144' - would not enter liner. Started in hole with packer on tubing.

7-15-77 Packer would not enter 6 5/8" liner. While pulling out of hole, tubing string parted dropping 1921' of tubing and packer in hole. Ran in hole with overshot. Recovered fish. Laid down 44 joints of bad tubing.

7-16-77 Ran packer with mule shoe. Could not enter 6 5/8" liner. Pulled out of hole. Started in hole with one joint of 2 3/8" tubing to clean out to top of 2 7/8" liner.

7-17-77 Rig and crew idle.

7-18-77 Finished running in well to depth of 7183'. Circulated polymer fluid to clean well. Pulled out of well. Started running in well 2 7/8" tubing with Baker seals and Otis safety system while hydrotesting each stand for one minute to a pressure of 5000 psi. Ran in 102 stands.

7-19-77 Finished running production string in well while hydrotesting. Attempted to latch seal assembly into packer, but were unable to latch into packer. Pulled out of hole.

7-20-77 Ran in well with 10 joints of 1" Hydril tubing on 2 7/8" tubing. Washed and drilled out cuttings from 7160' to 7193' (top of 2 3/8" wire-wrapped liner). Took two hours to wash out last 1' of cuttings. Pulled out to 7145' and circulated polymer fluid at rate of 14 cu.ft./minute for two hours.

7-21-77 Pulled out of well. Ran in well with Midway Surge tool. Opened tool on top of 6 5/8" liner. Pulled out of hole and recovered no junk. Started running in hole with Midway Surge tool to recover junk inside 6 5/8" liner.

7-22-77 Finished running in well with Midway Surge tool. Opened tool on top of packer at 7176'. Pulled out of hole and recovered no junk. Evidence of fine cuttings in well. Ran in well with sawtooth shoe. Reverse circulated polymer fluid and pumped down two sacks of sawdust in annulus and reverse circulated again while cleaning out to top of packer at 7176'. Recovered 5 to 7 cu.ft. of fine iron cuttings.

7-23-77 Reverse circulated for one hour. Pulled out of well. Ran in with 300' of 1" tubing and 1" tungsten carbide shoe. Tried to clean out 2 3/8" liner but repeatedly plugged 1" tubing while circulating in either direction. Pulled out of 6 5/8" liner at 7145'. Reverse circulated for two hours.

24-77 Rig and crew idle.

7-25-77 Pulled out of well. Ran in well with 60' of 1" tubing and two junk subs. Drilled and cleaned from 7172' to 7196'. Unable to drill further. Pulled out of well - junk subs empty but evidence of very fine metal cuttings at bottom. Ran in 2000' of tubing.

7-26-77 Finished running 2 7/8" tubing in well to 7192' - top of 2 3/8" tubing. Using Camco wireline equipment, ran following tools with results as indicated:

1. MAGNET: recovered about 5 milligrams of iron cuttings (7214').
2. BAILER: no recovery, except for some polymer drilling flu d (7214').
3. IMPRESSION BLOCK: indication of fine cuttings (7214').
4. HYDROSTATIC BAILER: made 5 trips and recovered rubber (probably B.O.P.E. rubber) on first 4 trips - no recovery on 5th trip (from 7214' to 7215').
5. IMPRESSION BLOCK: indication of fine cuttings. There were also some markings on side indicating that 1 3/4" block may be entering a tight pipe.

7-27-77 Ran 1" Impression Block and Sinker Bar on wireline and stopped at 7220'. Ran hydrostatic bailer - no recovery. Pulled out of well. Started running production string while hydrotesting each stand for one minute.

7-28-77 Finished running production tube in well. Latched onto Baker Model "D" packer. Pulled 25,000# over weight of tubing to check latch. Removed B.O.P.E. and installed Christmas tree. Tested tree seals to 5000 psi - O.K. Replaced polymer drilling fluid in well with lease salt water. Pulled sleeve from Otis safety system using wireline.

7-29-77 Archer-Reed pulled out NO-GO plug. Rig released at 9:00 A.M. (7-29-77).

jp.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern Calif. Gas Co. Field Aliso Canyon County Los Angeles
Well IW #58, Sec. 27, T 3N, R 16W S.B. B. & M.
A.P.I. No #037-21321 Name R. W. Weibel (Person submitting report) Title Agent (President, Secretary or Agent)
Date June 8, 1989

Signature N. W. Buss for R. W. Weibel 8/10/89

P.O. Box 3249 Terminal Annex, L.A., California 90051 (213) 689-3925
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	GWO No. 91851: was issued to install big tubing
1989	
5-16 to 5-17	Rigged up. Pressure tested tubing to 1000 psi. Installed back pressure valve in donut. Removed xmas tree and installed 9" x 3000 psi BOPE. Removed back pressure valve and installed 2-7/8" pup with safety valve in donut.
5-18	Tested pipe rams, blind rams and choke manifold at 3000 psi for 20 minutes; Hydril bag at 2300 psi for 20 minutes. BOPE inspected by Pam Ceccarelli of DOG. Released Otis latch from packer at 7240' and pulled out of well. Removed 2 joints tubing, Pengo tubing patch and production equipment. Ran Otis test seals to 7240' and pressure tested 8-5/8" casing at 1500 psi for 20 minutes.
5-19	Laid down 2-7/8" tubing.
5-20	Ran 3.25" latch type seal assembly, joint of 3-1/2" tubing, 2.635" NX nipple, joint of 3-1/2" tubing, 3-1/2" XO sliding sleeve, joint of 3-1/2" tubing, 3-1/2" gas lift mandrel with 2000 psi pump out, 3-1/2" tubing crossed over to 4-1/2" N-80 8rd thread casing. Ran in well hydrotesting to 4000 psi to packer at 7240'. Spaced out and installed donut.
5-22	Displaced polymer completion fluid from well with 320 bbls. of 3% KCl water. Attached to packer at 7240'. Pulled 15,000# over weight to check. Landed donut with 12,000# on latch when donut was in place. Installed back pressure valve in donut. Removed BOPE and installed xmas tree. Pressure tested xmas tree and seals to 5000 psi. Removed back pressure valve and blind flanged outlets. Released rig at 10:00 P.M.

OG103 (3/86/DWBB/5M)

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #62, Sec. 27, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-21313 Name J. W. Gourley (Person submitting report) Title Agent (President, Secretary or Agent)
Date June 27, 19 86

Signature N.W. Buss 6/27/86
N.W. Buss for J.W. Gourley

Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO No.: 99586 was issued to recover junk and set casing patch
1986	
1-20	Moved CPS Rig M-72 from Well IW #73 to IW #62. Filled well with 142 bbls. of 63#/cu.ft. polymer completion fluid and displaced additional 125 bbls. of fluid from well. Installed back pressure valve in doughnut. Removed xmas tree and installed 9" x 3000 psi Class III BOPE. Pressure tested as follows with water: blind rams 3000 psi for 20 minutes; pipe rams 3000 psi for 20 minutes; Hydril 2300 psi for 20 minutes; choke manifold 3000 psi for 20 minutes. Witnessing of test declined by Mr. Bill Winkle of the D.O.G.
1-21	Using free point and rotational torque indicator, worked Baker seal assembly loose from packer at 7072'. Circulated well. Pulled out of well, laying down production equipment (one 2-7/8" Camco gas lift mandrel, one 2-7/8" Camco annular flow safety system, one 2-7/8" Camco heavy wall tube, one Baker anchor seal assembly with 4 seals and one 5' production tube). Made up 8-5/8" bit and casing scraper on 2-7/8" tubing and ran in well to packer.
1-22	Pulled out of well with bit and scraper. Made up Baker locator seals on 2-7/8" tubing. Ran seals to packer at 7072'. Pressure tested packer at 1500 psi for 15 minutes. Pulled out of well, changing 2-7/8" tubing collars on bottom 5208' of tubing. Baker sealed the threads.
1-23	Made up Baker 8-5/8" x 5-1/2" 17# casing patch on 2-7/8" tubing. Using wireline, oriented Baker patch from 1978'-2023', across stage collar at 2001'. Set Baker casing patch. Pulled out of well, laying down setting tools. Secured well.

1986

1-24 Made up one 2-7/8" x 5' Baker production tube on one 2-7/8" Baker anchor seal assembly with 2 seal units, one joint of 2-7/8" tubing, one BST PSI "DU" 2-7/8" x 1.0" gas lift mandrel; hydrotested tubing in well to 7073'. Spaced out and attached to Retrieva-D packer and landed with 10,000# on latch when doughnut was in place. Installed back pressure valve in doughnut. Removed BOPE and installed tree. Pressure tested tree and doughnut at 5000 psi. Displaced polymer completion fluid from well with 430 bbls. of 3% KCl water. Released rig at 10:00 p.m. on 1-24-86.

WELL FILE HISTORY

Operator Southern California Gas Company Field ALiso Canyon County Los Angeles

Well: FF-32-F Sec. ____ T. ____ R. ____ ____ B.&M.

A.P.I. No. 037-21313 Name: Matt Ortwein Title : Storage Field Engineer

(Person submitting report) (President, Secretary, or Agent)

Date 8/2/2000

(Month, day, year)

Signature ____

Address ____ Telephone Number: ____

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Date	
06/16/2000	Move rig and equipment to location and begin rigging up. Remove instruments and laterals. Spot Baker tank and fill same with lease water treated with biocide.
06/19/2000	Rig up choke manifold and tie to Gas company system. Set up rig and tie down. Hook up pump and lines. Pump 200 barrels of treated lease water down tubing while venting casing to withdrawal. Continue to rig up.Secure well and equipment.
06/20/2000	Open well, no pressure on tubing. 500 psi on casing. Continue pumping treated lease water down tubing while venting casing to withdrawal system. Pumped a total of 220 barrels to fill well. Install BPV and remove tree. Install class III BOPE. Test BOPE.
06/21/2000	Open well, no pressure. Back out hanger hold downs. Rig up Baker Atlas and ran in well with chemical tubing cutter. Cut 2-7/8" tubing at 7011'. Pull 55 stands and inspection unit broke down. Rig down Tuboscope Secure well and equipment.
06/22/2000	Open well, no pressure. Rig up Tuboscope and pull tubing through inspection unit. 2-red; 10 - blue and 217 yellow. Rig down Tuboscope. Ran in to 200' to service mid break. Made up fishing tools with grapple to catch 4.67" I.D. per program. Spear would not set properly. Pulled out of well and changed grapple to 4.80 catch. Ran in well To 1800'. Secure well and equipment.
06/23/2000	Open well, no pressure. Ran in well to 1978'. Engage patch and jar out of hole. Lay down patch and tools. Made up 8-5/8" casing scraper and ran in well to 7000'. Pull out of well to 1800'. Secure well and equipment.
06/26/2000	Open well, no pressure. Continue pulling out of well with 8-5/8" scraper. Break down tools. Rig up Schlumberger and ran USIT casing inspection log from 7500' to surface.
06/27/2000	Open well, no pressure. Continue running in well to top of fish at 7011. Tagged fill at 7024'. Reverse circulated fill from 7024' to packer at 7072'. Recovered sand and scale. Clean up and pull out of well. Lay down wash pipe and arrange trailers. Secure well and equipment.
06/28/2000	Open well no pressure. Well standing full. Remove BOPE and lift stack to access hanger hold down studs. Remove studs and packings. Chase threads and replace as required. Set in BOPE and lay down 8 joints of blue band pipe and work pipe from rack. Haul to storage racks. Secure well and equipment.
06/29/2000	Open well, no pressure. Move trailers and rig up casing tongs. Picked up and ran Baker 6-5/8" X 8-5/8" Model "D" packer, 3 joints of 6-5/8" 24# LT&C casing, 14 joints of 6-5/8" buttress casing with XO's. Top of patch at 1946.25'. Top of element at 1950'. Center of bottom pack off element at 2735.55'. Bottom of reentry guide at 2737'. Pull out of well and break down tools. Secure well and equipment.
06/30/2000	Open well, no pressure. Made up and ran 5-9/16" overshot with 2-7/8" LH release grapple, jars, bumper sub, 4) 4-3/4" collars, and intensifier. Ran in well on 2-7/8" N-80 tubing to 6900'. Pull out of well on odd break to service connection. Ran in well to 6900'. Secure well and equipment.
07/05/2000	Open well, no pressure. Continue running in well with 5-9/16" overshot with 2-7/8" LH release grapple, jars, bumper sub, 4) 4-3/4" collars, and intensifier. Ran in well on 2-7/8" N-80 tubing from 6900' to top of fish at 7011'. Engage fish and attempt to release from packer. Right hand torque released tool. Pull out of well. No recovery. Picked up same tools with new grapple and extension. Ran in well to 6500'. Secure well and equipment.
07/06/2000	Open well, no pressure. Continue to run in well with fishing tools to top of fish at 7011'. Engage fish and set grapple. Worked tubing to maximum API torque. Attempts to release Baker latch were unsuccessful. Set off jars and pulled off 2-7/8" tubing. Pull out of hole. No recovery. Secure well and equipment.
07/07/2000	Open well, no pressure. Pick up 5-3/4" overshot with 3-5/8" grapple on 1 joint of 5" wash pipe. Ran in well with WP, Bumper sub, jars, four 4-3/4" drill collars and intensifier. Ran in well to 6900'. Secure well and equipment.
07/10/2000	Open well, RIH to top of fish @ 70 11', workover fish, attempt to release packer @ 7072'. Release from packer (burnt out seals). POOH. Lay down intensifier, four 4-3/4" drill collars, bumper sub jars, 1 joint 5-3/8" wash pipe and fishing tools and fish. Recovered one 10' cut off 2-7/8" tubing latch and seals. Make up seals, on off tool and sliding sleeve, RIH. Stab into packer @ 7072', space out well. Land tubing with 8000 #'s compression, rig down, nipple up production tree.
07/11/2000	Load out equipment, move to FF 35 C

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company Field: Aliso Canyon County: Los Angeles
Well: Fernando Fee 32 F Surface Location:
A.P.I. No. 03721313 Todd Van de Putte Title: Senior Storage Field...
(President, Secretary, or Agent)

Date: 9/27/2010 Signature: _____
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
6/1/2010	Spotted the pump and the Ensign Rig #321. Spotted the choke manifold, the dog house, the accumulator and the light plant. Rigged up and tied down the hoist. Rigged up to kill the well and rigged up associated rig equipment.
6/2/2010	Rigged up the accumulator lines and the auxillary kill line. Moved in the diesel tank.
6/3/2010	Opened the well with 2500 psig tubing and casing pressure. Reviewed the kill schedule with the rig crew. Pumped 50 bbls of hi-vis HEC polymer down the tubing and displaced the polymer with 40 bbls of 9.5 ppg KCl brine. Killed the well with 320 bbls per the kill schedule. Installed the back pressure plug and nippled down the production tree. Nippled up the Class III 5M BOPE and function tested same. Removed the back pressure plug. Secured the rig and the well.
6/4/2010	Checked the tubing and the casing pressure with 0 psig on each. Filled the well with 18 bbls KCl brine. Installed the back pressure plug. Tested the blind rams to 5000 psig for twenty minutes. Removed the BPV and tested the pipe rams to 5000 psig for twenty minutes. (choke manifold leaking, repaired) Tested the Hydril annular preventer to 3500 psig for twenty minutes. Tested the choke manifold and all the control valves to 5000 psig for twenty minutes (BOPE Test witnessed and approved by F Pineda DOGGR District 2). Rigged down the BOPE testers. Cleaned the location and secured the well.
6/7/2010	Held a safety meeting with the rig crew. Opened the well with 0 psig pressure on both the tubing and the casing. Filled the well with 16 bbl KCl brine. Backed out the hold down studs and unlanded the 2-7/8" tubing. Released the 8-5/8" HES G-6 packer @ 6920' and pulled the packer to 6600' and set the packer. Rigged up the KTW wirelline unit and set the PXN plug in the XN nipple. Tested the plug to 400 psig for twenty minutes(bled down 100 psig). Released from the On/Off tool, pulled out of the well and laid down the 2-7/8" production equipment. Ran in the well with a kill string to 3500' and secured the well.
6/8/2010	Pulled out of the well with the 2-7/8" kill string. Made up a spear, extension, bumper sub, jars, (4) 4-3/4" drill collars and an instensifer. Ran in the well to the top of 6-5/8", 28#, L-80 scab liner at 1940'. Engaged the liner and jarred at 80,000lb over string weight and pulled the 6-5/8" liner free. Circulated out the gas from the well, pulled out of the well and laid down (20) joints of 6-5/8 liner (Left one 6-5/8" packer slip segment in the well). Laid down the fishing tools. Made up the top half of the On/Off tool, ran in well with the 2-7/8" kill string to 3500' and secured the well.
6/9/2010	Pulled out of the well with the 2-7/8" kill string. Rigged up the KT&W wirelline unit and made up a 4" magnet and ran in the well to the top of the 8-5/8" packer at 6650'. Pulled out of well with the 4" magnet (1" packer piece recovered). Made up a 1.75" magnet and ran in the well to the top of the 8-5/8" packer at 6650'. Pulled out of the well with no recovery. Rigged down the wirelline unit. Made up the top half on/off tool, ran in the well with a 2-7/8" kill string to 3500', and secured the well.
6/10/2010	Ran in the well to the top of the 8-5/8" packer at 6504'. Engaged the on/off tool and rigged up the KT&W wireline unit. Ran in the well, pulled the prong, then the PXN plug body and rigged down the wireline unit. Released the 8-5/8" G-6 packer and rigged up and circulated the well for 30 minutes. Attempted to pull out of the well and the 8-5/8" packer would not move. Attempted to release and move packer. Secured the well.
6/11/2010	Rigged up the 2.5 power swivel and the PGSR. Rotated the 8-5/8" packer free and pulled up the hole 60'. The 8-5/8" packer became stuck and worked the 8-5/8" packer. Sheared off the on/off tool and pulled out of well to a 2-7/8" kill string at 3500'. Secured the well and Held BOP drill (48 seconds to complete drill)
6/14/2010	Pulled out of the well with the 2-7/8" kill string. Made up a 5-3/4" overshot with a 3" grapple, a bumper sub, jars, and (4) 4-3/4" drill collars. Ran in the well to the top of the packer at 6530'. Engaged the fish and attempted to push down the packer. The overshot slipped off of the fish and could not get back over the stub. Pulled out of the well and laid down the fishing tools. (Grapple was found with two wickers pulled). Ran in the well with a 2-7/8" kill string to 3500' and secured the well.
6/16/2010	Pulled out of the well with the 2-7/8" kill string and made up a 5-1/2" overshot with a 3-1/16" grapple, a bumper sub, jars, and (4) 4-3/4" drill collars. Ran in the well to top of 8-5/8" packer at 6530'. Engaged the fish and attempted to work the packer down and up. Slipped off the packer and could not re-engage. Pulled out of the well and laid down the overshot. Made up an outside tubing cutter, ran in the well with a 2-7/8" kill string to 3500' and secured the well.
6/17/2010	Ran in the well with the outside tubing cutter to the top of the fish at 6540'. Cut off the on/off tool and pulled out of the well and laid down the outside tubing cutter(recovered on/off tool and 3' stub). Made up a 5-3/4" overshot with a 3-21/32" grapple, a bumper sub, jars, and (4) 4-3/4" drill collars. Ran in the well to top of the fish at 6545', engaged the fish and attmepted to work the fish down. Jarred on the fish at 40,000lb over string weight and pulled the packer free. Pulled up the hole to 5500' and secured the well.
6/18/2010	Pulled out of the well with the 8-5/8" packer (packer hanging on casing collars on the way up the hole). Laid down the fishing tools and the 8-5/8" packer (one slip missing on packer). Made up a 8-5/8" casing scraper, a bumper sub and ran in the well to 6956'. Pulled up the hole with the scraper hanging up at 5500' and worked the scraper up hole to 5100'. Secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company Field: Aliso Canyon County: Los Angeles
Well: Fernando Fee 32 F Surface Location:
A.P.I. No. 03721313 Todd Van de Putte Title: Senior Storage Field...
(President, Secretary, or Agent)

Date: 9/27/2010 Signature: Todd R Van de Putte
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
6/21/2010	Attempted to work the 8-5/8" casing scraper up the hole. Picked up the 2.5 power swivel and rotated and circulated while attempting to work up the hole. Laid down the 2.5 power swivel and ran in the well. Tagged the 6-5/8" liner top at 6954' and secured the well.
6/22/2010	Rigged up the Tiger wireline unit and made up a 2-7/8" chemical cutter. Ran in the well to 6940' and cut the 2-7/8" tubing. Rigged down the Tiger wireline. Pulled out of the well laid down the 2-7/8" tubing cut off. Made up a 8-5/8" string mill, a set of jars, and (2) 4-3/4" drill collars. Ran in the well to top of the fish at 6940'. Pulled up the well to a 2-7/8" kill string at 3500' and secured the well.
6/23/2010	Pulled out of the well with the kill string and laid down the fishing tools. Nippled up a shooting flange and rigged up Schlumberger wireline unit with a full lubricator. Made up the USIT tools and ran in the well to 6925 and logged to surface. Rigged down the Schlumberger wireline unit. Ran in the well to 3500' with a 2-7/8" kill string and secured the well.
6/24/2010	Pulled out of the well with the 2-7/8" kill string. Made up a reverse circulating junk sub and ran in well to 3500'. Shut the rig down to replace the drilling line. Secured the well.
6/25/2010	Repaired the drilling line on the rig. Held a safety meeting with the rig crew. Opened the well with 0 psig tubing and casing pressure. Filled the well with 4 bbl brine. Ran in the well to the top of the fish at 6640'. Reversed circulated over the fish, pulled up the hole to 5000' and secured the well.
6/28/2010	Pulled out of the well and laid down the reverse circulating junk sub. Made up a 5-3/4" overshot with a 4" grapple, a bumper sub, a set of jars, and (4) 4-3/4" drill collars. Ran in the well to top of the fish at 6940', engaged the fish worked and jarred the fish loose. Pulled out of the well and laid down the fish. (Recovered the 8-5/8" casing scraper and the bumper sub) Laid down the fishing tools. Made up a 7-3/4" string mill and (4) 4-3/4" drill collars ran in the well to 3500'. Secured the well overnight.
6/29/2010	Ran in the well with the 7-3/4"mill to 5523' and worked a tight spot in the 8-5/8" casing. Continued in the hole to the 6-5/8" liner top. Pulled out of the well and laid down the 7-3/4" mill. Ran in the well with a 2-7/8" kill string to 3500' and secured the well.
6/30/2010	Pulled out of the well with a 2-7/8" kill string. Made up an 8-5/8" retrieveable bridge plug, ran in the well to 6930', set bridge plug and pressure tested the bridge plug to 500 psig surface pressure (leaked off 300 psig in twenty minutes) Dumped sand on top of the 8-5/8" bridge plug and pulled out of the well. Made up an 8-5/8" test packer, ran in the well to 3500' and secured the well.
7/1/2010	Ran in the well with the 8-5/8" test packer to 6000', set packer and pressure tested below packer to 1000 psig surface pressure for 5 minutes. Tested 2-7/8" tubing x 8-5/8" casing annulus to 600 psig surface pressure for 5 minutes (bled down 100 psig) Released the 8-5/8" test packer, pulled up the hole to 4000' and reset the test packer. Pressure tested below the packer to 1000 psig surface pressure for 5 minutes, tested good. Tested the 2-7/8" tubing x 8-5/8" casing annulus to 1000 psig surface pressure for 5 minutes (bled down 550 psig). Released the test packer and moved the packer to 2078' and pressure tested below the packer to 1000 psig surface pressure for 5 minutes, tested good. Tested the 2-7/8" tubing x 8-5/8" casing annulus to 2000 psig surface pressure for 5 minutes (bled down 1650 psig). Released the test packer, moved the packer to 1954' and pressure tested below the packer to 1000 psig surface pressure (bled down 600 psig). Pressured tested the 2-7/8" tubing x 8-5/8" casing annulus to 2000 psig, tested good. Pulled out of the well and laid down the 8-5/8" test packer. Made up an 8-5/8" retrieveable bridge plug, ran in the well to 2000' and secured the well.
7/2/2010	Ran in the well to 3514' with the 8-5/8" bridge plug, set the bridge plug and tested the annulus to 1000 psig (250 psig loss in 5 minutes). Pulled out of the well and made up an 8-5/8" tension packer. Ran in the well to 3327' set the 8-5/8" tension packer and pressure tested below the packer to 1000 psig surface pressure (Held pressure). Released the packer and pulled up the hole to 1952', set packer tested annulus to 2000 psi surface pressure (Held pressure). Pressure tested below the tension packer to 1400 psig surface pressure (injection rate 0.2 bpm at 1400 psig). Released the 8-5/8" tension packer, pulled out of the well and laid down the packer. Made up a bridge plug retieving tool, ran in the well to 3000' and secured the well.
7/6/2010	Ran in the well to 3514', engaged the 8-5/8" bridge plug and released the bridge plug. Pulled out of the well and laid down the 8-5/8" retrievable bridge plug. Ran in the well to 6924' with a 2-7/8" kill string and secured the well.
7/7/2010	Rigged up the Tuboscope scanolog unit and pulled out of the well thru the scan unit. The 2-7/8" tubing scan results were 0 yellow band, 146 blue band, 51 green band, 20 red band. Rigged down the Tuboscope scan unit. Ran a 2-7/8" kill string in the well to 3500' and secured the well.
7/12/2010	Pulled out of the well and laid down the 2-7/8" tubing string. Laid down (4), 4-3/4" drill collars. Ran in the well to 3500' with a 2-7/8" kill string and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company | Field: Aliso Canyon | County: Los Angeles
Well: Fernando Fee 32 F | Surface Location:
A.P.I. No. 03721313 | Todd Van de Putte | Title: Senior Storage Field...
(President, Secretary, or Agent)

Date: 9/27/2010 | Signature: Todd R Van de Putte
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 | Telephone Number: 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
7/13/2010	Pulled out of the well and laid down 106 joints of 2-7/8" tubing. Loaded the excess 2-7/8" tubing, the 4-3/4" drill collars and the 2.5 power swivel. Made up the 8-5/8" bridge plug retrieving head, measured and picked up 46 joints of 2-7/8" L-80 tubing, 162 joints of N-80, yellow band tubing and secured the well.
7/14/2010	Measured and picked up the 2-7/8" tubing to 6768' and secured the well.
7/19/2010	Measured and picked up the 2-7/8" tubing to top of the sand plug at 6925'. Installed the PGSR and changed over the well to 10 ppg brine with 400 bbl. Cleaned out the sand to the top of the 8-5/8" retrievable bridge plug at 6937'. Released the 8-5/8" bridge plug and filled the well with 4 bbl brine. Removed the PGSR and circulated out the gas cut brine (Lost 22 bbl of brine to the well) and circulated the well. Pulled up the hole to 3200' and secured the well.
7/20/2010	Opened the well with 100 psig tubing and casing pressure. Bled down the well and filled the well with 21 bbl brine. Pulled out of the well and laid down the 8-5/8" bridge plug. Made up a 4-11/16" polishing mill and ran in the well to the 6-5/8" polished bore receptacle at 6954'. Cleaned the PBR from 6954' to 6960' and pulled out of the well and laid down the mill. Made up a 4-1/2" Lok-set bridge plug, ran in the well to 6330' and secured the well overnight.
7/21/2010	Ran in the well to 7009' and the 4-1/2" set the bridge plug. Pressure tested the bridge plug to 500 psig surface pressure and dumped 5 cu. ft of sand on top of the bridge plug. Pulled up the hole to 3500'. Shut down the rig for repairs on the rig motor.
7/22/2010	Pulled out of the well and laid down the 4-1/2" bridge plug retrieving head. Rigged down the tubing equipment and the working floor. Nippled down the Class III 5M BOPE. Nippled down the tubing head and sent in for repairs. Nippled up the innerstring spool and tested the seals to 5000 psig for twenty minutes. Nippled up the Class III 5M BOPE. Rigged up the working floor and changed the BOP pipe rams to 6-5/8". Rigged up the 6-5/8" casing tongs and made up the PBR seal assembly and the 6-5/8" innerstring packer. Measured and picked up the 6-5/8", 28#, L-80 Hunting SLF casing with the WEA JAM unit to 2500' and secured the well.
7/23/2010	Continued to measure and pick up the 6-5/8", 28#, L-80 Hunting SLF casing with the WEA JAM unit and ran to 6640' and secured the well.
7/26/2010	Continued to measure and pick the 6-5/8", 28#, L-80 Hunting SLF casing to 6954'. Tagged the PBR, rigged up and pumped 117 bbls 3% KCL with corrosion inhibitor in the 6-5/8" x 8-5/8" annulus. Stabbed the 6-5/8" casing and seals in the PBR, set with 40,000lb compression and set the 6-5/8" hydraulic packer with 2500 psig. Rigged down the working floor and secured the well.
7/27/2010	Nippled down the Class III 5M BOPE and installed the 6-5/8" casing in the slips and landed with 40,000lb compression. Installed the pack-off and nippled up the tubing head. Tested all the wellhead seals to 5000 psig for twenty minutes (All tests good). Nippled up the Class III 5M BOPE. Rigged up the working floor and the 2-7/8" tubing equipment. Made up the 4-1/2" retrieving head ran in well 6802'. Nipppled up PGSR secured well.
7/28/2010	Ran in the well, tagged the sand at 6999' and cleaned out sand to the 4-1/2" bridge plug at 7006'. Reverse circulated the hole clean and released the 4-1/2" bridge plug. Pulled out of the liner. Circulated the gas cut brine to surface and nippled down the PGSR. Pulled out of the well and laid down the bridge plug and the retrieving head. Made up an 6-5/8" HES G-6 packer, 6' 2-7/8" pup jt, an On/Off tool with the PXN plug in place,1 jt 2/7/8" tubing, sliding sleeve, 1 jt 2-7/8" tubing and a gas lift mandrel. Ran in the well to 6930' and set the 6-5/8" packer, released from the on/off tool and respaced the completion string. Landed the 2-7/8" tubing in the tubing hanger with 10,000# compression. Pressure tested the 2-7/8" tubing x 6-5/8" innerstring annulus to 500 psig surface pressure for twenty minutes (Held pressure). Secured the well overnight.
7/29/2010	Held a safety meeting with the rig crew. Pressure tested the 6-5/8" innerstring x 8-5/8" production casing annulus to 500 psig (Bled down 125 psig in 10 minutes). Nippled down the Class III 5M BOPE. Rigged down the Ensign #321 rig and loaded the associated equipment. Rigged down the hoist for move to SS 25A.

04/27/94 Jackson
Day 1. Move in and rig up. Attempted to bleed down 1400 psi from tubing and casing. Rigged up to kill well.
MWO 99772

[redacted]

04/28/94 Jackson
Day 2. Bled casing pressure from 1400 psi. Attempted to bleed off to load up, but not successful.
MWO 99772

[redacted]

04/29/94 Jackson
Day 3. Killed well with 3% KCL. Bull head 48 Bbls. down tubing. Bled 1400 psi on schedule while pumping 200 Bbls. total fluid. Well dead. Installed BOE, tested to 5000 psi and Hydril to 3500 psi. Rigged up floor. Unland donut at 40,000#. Released from packer. Pulled to 6881'.
MWO 99772

[redacted]

04/30/94 Jackson
Day 4. Bled 100 psi from well. Added water to casing to control while pulling. Measured out of well. Laid down gas lift equipment. Ran 7" 26# positive scraper to 6117'. Pulled out and ran 7" 23# positive scraper to 3635'. shut in well.
MWO 99772

[redacted]

05/02/94 Jackson
Day 5. Bled 150 psi from well. Pulled 7" 23# scraper. Ran 7" 23# Baker bridge plug and set at 3499'. Ran full bore packer to 100', 1500 psi to surface o.k. Reset at 105'. Tested o.k. Set at 110'. Test o.k. to surface. Set at 115'. Test to surface blew gas up surface pipe. Tested from 115' to bridge plug, 1500 psi. Ran in hole and released bridge plug. Took kick. Shut in. Bled gas.
MWO 99772

[redacted]

Comp/Date. 11/1/94

05/03/94 Jackson

Day 6. With casing pressure of 375 psi, tubing pressure of 125 psi, killed well with 127 Bbls of 2% KCl water. Pulled out of well with bridge plug. Made up Baker A-3 lock-set plug gauge ring OD 5.968'. Set bridge plug at 3499'. Pulled out of well. Ran 7" scraper and wire brush from 95' to 125'. Pulled out of well. Made up 20' of Weatherford roll out casing patch. Ran in well and set patch from 102.5' to 122.5'. Laid down tools. Closed in well with blind rams.
MWO 99772

[redacted]

05/04/94 Jackson

Rig idle.
MWO 99772

[redacted]

05/05/94 Jackson

Day 7. Rig was not running 5/5/94 to allow patch to cure. 5/5/94 opened well (no pressure). Ran in hole with retrieving tool for bridge plug. Removed standard collars and replaced with beveled collars. Engaged and released bridge plug. Secured well. Mixed 2% KCl.
MWO 99772

[redacted]

05/06/94

Jackson

Day 8. Opened well. Pulled bridge plug from 3500'. Made up seal assembly. Solid test. Found standing valve leaking. Rebuilt and retested standing valve. Picked up Hydrotest tools. Test in hole at 4000 psi. Spider all tubing connections at API recommended torque. Changed all collars to beveled tally in hole to EOT.
MWO 99772

[redacted]

05/07/94 Jackson

Day 9. Opened well. Continued running in hole with gas lift assembly. Changed collars to beveled. Hydrotested at 4000 psi. Made up tubing to API recommended torque. Made up SSV. Space well. Solid test above SSV. Secured well.
MWO 99772

[redacted]

REVISION

05/09/94 Jackson

Day 10. Bled 800 psi from well. Pumped 70 Bbls down casing to kill well. Pulled to 500'. Ran SCSSV and band control tubing. Landed with 10,000 lbs on packer (string wt. 68,000 lbs). Tested tubing with nitrogen to 2000 psi o.k. Tested casing with nitrogen to 3000 psi. Very slight bubble from surface pipe. Tested SCSSV (2000 psi differential). Bled off casing and tubing. Secured well.
MWO 99772

[redacted]

05/10/94 Jackson

Day 11. Tested wellhead seals. Re-energized seals. Tested casing with nitrogen. Surface pipe had very slight blow starting at 200 psi. Bled down casing. Mixed 2% KCl fluid. Released latch and pulled out of well. Pumped 50 Bbls. to control gas kick Secured well.
MWO 99772

[redacted]

05/11/94 Jackson

Day 12. Bled 400 psi from well. Pumped 30 Bbls. 2% KCl. Finished pulling out of well with tubing. Ran lockset packer to 28'. Pressure tested above packer with nitrogen and noted leak at 300 psi. Repeated test at 19' and noted same leak. Repeated test at 14' and noted same leak. Laid down packer. Ran lockset bridge plug to 180' to test casing patch. Bridge plug would not set. Pulled up and stuck bridge plug in patch. Worked free. Retrieved bridge plug, but found that one slip was missing. Ran kill string.
MWO 99772

[redacted]

05/12/94 Jackson

Day 13. Bled 125 psi from well. Pumped 30 Bbls down tubing. Pulled out. Ran seal assembly to 7481'. Latch in o.k. Pulled 20m over to test. Pressure casing to 2000 psi. Small leak from surface pipe. Bled tubing. No drop in casing pressure. Bled casing. Released from packer. Secured well.
MWO 99772

[redacted]

05/13/94 Jackson
Day 14. Rig down.
MWO 99772

[redacted]

05/14/94 Jackson
Day 15. Opened well. Killed well per schedule. Pulled tubing. Rigged Schlumberger. Ran casing inspection log. Ran kill string.
MWO 99772

[redacted]

05/16/94 Jackson
Day 16. Kill well 500 psi on tubing and casing. Pulled kill string. Ran Baker lockset bridge plug, would not go through patch at 108'. Ran 5.7" tapered mill. Turned with power swivel 102 to 122. Dressed 108' to 114'. Ran bridge plug to 990, would not set. Pulled out, no plug. Ran to 3100'. Latched bridge plug, set and released. OK. Secured well.
MWO 99772

[redacted]

05/17/94 Jackson
Day 17. Pumped 32 Bbls. down tubing. Pulled bridge plug to 980'. Bridge plug would not set. Pulled bridge plug. Ran new bridge plug and set at 990'. Tested 990 to surface with water at 3000 psi for 1 hour, OK. Unloaded well to 180' with nitrogen. Set full bore packer at 14'. Tested with nitrogen from 14' against fluid at 180' (BP at 980') , successful. (1-1/2 hr total) No blow to surface casing at 2000 psi. Tested above packer at 14' to BOE. No blow to surface casing. Tested for 1 hr at 2000 psi. Bleed well, released packer and pulled. Released bridge plug and continued in well to 3480' for kill string. Secured well.
MWO 99772

[redacted]

05/18/94 Jackson
Day 18. Zero pressure on well. Added 20 barrels to casing. Pulled bridge plug. Ran gas lift assembly and spaced out. Latched packer at 7481'. Pulled 20M over. Landed with 12,000 compression on packer. Tested tubing @ 2000 psi, pressure casing with 2000 psi. Tested SSV. Operated OK. Bled off tubing and casing. Secured well.
MWO 99772

[redacted]

05/19/94 Jackson

Day 19. Removed working floor. Nippled down blow out equipment. Installed production tree. Tested well head seals and flanges. Released rig at 1:00 p.m.
MWO 99772 [redacted]

File in
WELL HISTORY FILE

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee #34-A, Sec. 34, T 3N, R 16W, S.B. B. & M.
A.P.I. No. 037-22044 Name R. D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date June 24, 1991

Signature J. B. Lane for R. D. Phillips

P. O. Box 3429 Terminal Annex, Los Angeles, CA 90051 (213) 689-3925
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date 1991	
5-06	Moved in and rigged up. Hooked up kill lines. Well had 400 psi on tubing and casing. Pumped 142 Bbls to fill well.
5-07	Installed equalizing back pressure valve in donut. Removed xmas tree. Installed 8" 5000# BOPE. Tested blind rams to 4000 psi, pipe rams to 4000 psi, annular preventer to 2500 psi, choke manifold to 4000 psi. Backed out donut studs.
5-08	Replaced locked screw and gland nut on tubing head. Filled well with 81 BBls. Pulled seals out of Baker packer at 7500'. Pulled and laid down 248 joints of 3-1/2" J-55 EUE 8RD tubing. Changed pipe rams to 2-7/8". Made up full bore packer. Ran in well. Found holes from 2093' to 2098'. Established breakdown rate of 3 Bbls min. at 800 psi. Pulled up to 2055'.
5-09	Pulled out of well with full bore packer. Ran minimum I.D. caliper log from 7490' to surface. Ran 7-5/8" bit on 8-5/8" 40# casing scraper. Picked up and measured 2-7/8" drill pipe. Tagged packer at 7450' with drill pipe.
5-10	Pulled out of well. Rigged up Schlumberger. Ran CPET log from 4000' to surface. Pulled out of rope socket in lubricator dropping tool down hole. Made up and ran 7-3/8" OD overshot with 3-3/8" grapple.
5-11	Ran in well with 7-3/8" OD overshot to 7456'. Pulled out of well recovering logging tool. Ran Schlumberger METT log from 7490' to surface. Rigged down Schlumberger. Made up 8-5/8" retrievable bridge plug. Ran in well to 1871'.

Mailed to DOG 6/27

OG103 (10/89/GSR1/5M)

5-13 Ran in well with retrievable bridge plug and set at 6500'. Pulled out of well. Made up #2 retrievable bridge plug and set at 120'. Tested bridge plug to 1000 psi. Removed BOPE, tubing head and seal flange. Made up 8-5/8" 40# spear and rigged up casing jacks.

5-14 Speared 8-5/8" 40# casing and pulled 300,000#. Slips would not move. Cut 13-3/8" casing slips. Released spear. Laid down 13-3/8" well head and cut slips out of head. Lowered casing head 32-3/8". Rewelded 13-3/8" casing head.

5-15 X-rayed weld. Landed 8-5/8" casing with 270,000# hanging on slips in 13-3/8" wellhead. Installed 8-5/8" pressure seal and innerstring spool. Re-installed BOPE and tested to 2000 psi for 20 minutes. Energized seals and tested to 5000 psi. Moved top bridge plug from 120' to 2148'.

5-16 Changed over to clean KCL water at 2148'. With drill pipe hung at 2116', dumped 6 sacks of 20-40 sand down drill pipe. Waited one hour. Ran in and tagged top of sand at 2137, 11' above bridge plug. Pulled out of well. Made up full bore packer. Ran in well and set packer at 2029'. Mixed and pumped 75 cu.ft. cement with 3% CaCl. Displaced with 69-1/2 cu.ft. of 2% KCL water.

5-17 Released and pulled out of well with full bore packer. Made up 7-5/8" bit and 8-5/8" scraper and drilled out cement from 2065' to 2110'. Pressure tested 8-5/8" casing to 600 psi. Pulled out of well. Ran in well with bridge plug retrieving head. Circulated sand out of well. Latched onto bridge plug at 2148' and pulled out of well. Ran in well to 1876' with bridge plug retrieving head.

5-18 Ran in well to 6500'. Released bridge plug. Pulled out of well. Picked up 358' of 2-3/8" CS Hydril tubing with 45 degree shoe on bottom joint. Ran in well. Tagged fill at 7822'. Cleaned out fill to 7844'. Circulated well clean. Pulled out of well to 5906'.

5-20 Pulled out of well and laid down 2-3/8" CS Hydril tubing. Picked up Baker packer test seals. Ran in well to packer at 7489'. Set 15,000# on packer. Tested seals to 600 psi for 20 minutes. Pulled and laid down 2-7/8" drill pipe to 1876'.

5-21 Pulled kill string. Laid down test seals. Ran in well with Homco 8-5/8" casing patch and set at 2080'-2120'. Pulled out of well laying down Homco casing patch setting tool. Ran in well with kill string.

5-22 Pulled and laid down kill string. Rigged up casing tongs. Changed pipe rams to 6-5/8". Rigged up Torque-and-Turn. Made up seal assembly x-over to 6-5/8" 24# Atlas Bradford FL4S casing. Started running 6-5/8" AB-FL4S casing.

5-23 Ran in well with 63 joints of 6-5/8" innerstring (185 total to 7460'). Pumped 125 bbls of 2% KCL with Exxon coat 7726' in 6-5/8" x 8-5/8" annulus. Stabbed into 8-5/8" Baker retrieva "D" packer with joint #186 (7500' total). Landed 6-5/8" innerstring with 15,000# on packer. Nippled up tubing head. Changed pipe rams to 2-7/8". Tested seal flange and tubing head to 5000 psi.

5-24 Finished testing BOPE to 2000 psi. Ran Otis 6-5/8" "BWB" production packer on wireline and set at 7430'. Picked up Otis production seals and equipment. Picked up 2-7/8" tubing and ran in well Hydrotesting to 4000 psi.

5-25 Finished Hydro-testing 2-7/8" tubing in well. Ran tubing to 7430'. Spaced out and changed over to 2% KCL with EXXON COAT 7726. Stabbed into packer and pulled 20,000# over tubing weight to check latch. Landed 2-7/8" tubing with 8000# down on Otis 6-5/8" "BWB" packer. Removed BOPE. Installed xmas tree and tested to 5000 psi. Released rig.

Mailed 9/19

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County ALISO CANYON
Well FERNANDO FEE #35, Sec. 34, T 3N, R 16W, S.B.B. & M.
A.P.I. No. 037-00689 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 30, 1978.

Signature PSM/ P.S. Magruder, Jr.

P.O. Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1978	
6-22	0 Day. Killed well with 200 barrels of 82#/cu.ft. brine - polymer drilling fluid.
9-19	0 Day. Moved in California Production Service Rig #D-4.
9-20	1st Day. Completed rig up. Attempted to circulate well. Unable to maintain circulation. Lost fluid at a rate of 1.6 barrels per minute. Pumped in a high viscosity pill and let stand for two hours. Attempted to establish circulation. Lost fluid at a rate of 2.6 barrels per minute. Spotted a carbonate pill across perforations. Let pill stand for two hours. Attempted to establish circulation. Los fluid at a rate of 1.0 barrels per minute. Spotted a second carbonate pill and closed well in.
9-21	2nd Day. Attempted to circulate well. Lost fluid at a rate of 4.2 BBL. per minute. Pumped calcium carbonate pill across production zone. Set plug in doughnut. Removed Xmas tree and installed B.O.P.E. Tested blind rams and pipe rams to 4000 psi with water and nitrogen for 20 minutes. Tests witnessed and approved D.O.G. Released tubing from packer. Attempted to circulate well. Lost fluid at a rate of 1.5 BBL. per minute. Spotted carbonate pill across production zone and shut in well.
9-22	3rd Day. Attempted to circulate well. Formation took fluid at a rate of 1.0 BBL. per minute. Spotted a calcium carbonate pill across production zone. Pulled and laid down 2-3/8" tubing and Camco safety sytem. Ran in and set 2.75" tubing plug below 7" packer at 6955'. Ran in and set Baker Model "C" bridge plug at 60'.
9-23	4th Day. Removed B.O.P.E. and tubing head. Unlanded 5-1/2" casing with 144,000#. Removed packing assembly. Relanded 5-1/2" casing. Reinstalled B.O.P.E. and changed to 5-1/2" pipe rams. Unlanded 5-1/2" casing and pulled Baker bridge plug. Started pulling and laying down casing.

1978 Daily Well Report for FERNANDO FEE #35 - Aliso Canyon

9-24 Rig and crew idle.

9-25 5th Day. Finished pulling and laying down 5-1/2". Changed to 2-7/8" pipe rams. Ran in and set B ker Model "C" bridge plug at 60'. Rigged up to retest B.O.P.E. Tested blind rams and pipe rams to 4000 psi with water for 20 minutes. Tested Hydril "GK" to 3000 psi with water for 20 minutes.

9-26 6th Day. Ran 2-7/8" drill pipe with sawtooth collar on bottom. Tagged fill at 6940'. Washed down to 6945'.

9-27 7th Day. Pulled out of well. Broke off and laid down sawtooth collar. Made up Baker packer retrieving tool on bottom of four 4-3/4" drill collars. Ran in to top of packer at 6965'. Milled over top of "F" packer and latched into same. Pulled packer loose and circulated well.

9-28 8th Day. Pulled out of well with Baker Model "F" packer. Left packer extension (5' long) in hole. Made up Midway spear on jars, bumper sub and four 4-3/4" drill collars. Ran in and took hold of packer extension sitting on top of 5" liner. Pulled out of well with fish. Made up 4-1/8" bit on 10 joints of 2-3/8" tubing and starting running in well.

9-29 9th Day. Continued with 4-1/8" bit and tagged top of fill at 7143'. Cleaned out from 7143' to 7177'. Circulated well clean. Pulled out and laid down bit and 2-3/8" tubing. Made up Baker bridge plug and ran in to 7000'. Made several unsuccessful attempts at setting bridge plug.

9-30 10th Day. Pulled out of well with Baker Lok-Set bridge plug. Made up Baker Model "C" bridge plug on 1 joint 2-7/8" tubing and 2-7/8" drill pipe and started running in well. Bridge plug would not go inside 5" liner. Pulled out of well. Ran back in with a smaller Baker Model "C" bridge plug (Max I.D. = 4.408"). Set plug at 7000'. Dumped 4 sacks of sand on top of plug. Pulled out of well. Started running back in with 6 joints of 2-7/8" tubing and 7" Baker full bore retrievable cementing tool.

10-2 11th Day. Located sand plug at 6985'. Backscuttled well clean. Rigged up Halliburton to obtain breakdown on W.S.O. holes at 6967'. No breakdown was obtained. Holes held 2550 psi. Pulled out of well and laid down squeeze tool.

10-3 12th Day. Tagged sand plug at 6983' and pulled out of well. Rigged up Welex and shot 4-1/2" holes at 6966'. Made up Baker fullbor retrievable squeeze tool with 180' of 2-7/8" tubing on bottom and ran in well. With bottom of tubing hanging at 6967' Halliburton obtained a breakdown on 4 cu.ft. per minute at 2100 psi. Backscuttled water out. Halliburton mixed and pumped 30 cu.ft. of class "G" cement with 10 cu.ft. of water ahead and 5 cu.ft. of water behind to equalize. Pulled up to 6656' and backscuttled. No cement returns. Cement in place at 5:15 P.M. Set Baker fullbore at 6656' and squeezed away 2 cu.ft of cement at a final pressure of 2500 psi. Held pressure on well for two hours. Bled off pressure and started pulling out of well.

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10-4 13th Day. Finished pulling out of well. Made up 6-18" bit and 7" casing scraper on four - 4-3/4" drill collars and 2-7/8" drill pipe. Ran in and tagged cement at 6823'. Drilled out cement from 6823' to 6966'. Circulated well clean. Pulled out of well. Ran back with 342' of 2-7/8" tail below Baker fullbore cementing tool and 2-7/8" drill pipe.

10-5 14th Day. With bottom of 2-7/8" hanging at 6967' and Baker fullbore retrievable squeeze tool set at 6625', Halliburton spotted 30 cu.ft of water across holes and obtained a breakdown of 4 cu.ft. per minute at 2200 psi. Halliburton mixed and pumped 30 cu.ft. of class "G" cement with 30 cu.ft. of water ahead, 5 cu.ft. of water behind and 170 cu.ft. of mud to equalize. Pulled up to 6687' and backscuttled. Recovered 10 cu.ft. of cement. Cement in place at 8:30 A.M. Set Baker fullbore at 6325' and squeezed away 3.5 cu.ft. of cement at a final pressure of 2500 psi. Held pressure on well for two hours. Bled off pressure and pulled out of well. Made up 6-1/8" bit and 7" casing scraper on 4-3/4" drill collars and 2-7/8" drill pipe and ran in to top of cement at 6875'. Drilled out cement from 6875' to 6967'. Circulated well clean. Started pulling out of well.

10-6 15th Day. Finished pulling out of well. Made up 7" Baker fullbore squeeze tool with 342' of 2-7/8" tubing on bottom and ran in to 6967'. Pressure tested holes at 6966' for 20 minutes at 2000 psi. Pulled out of well and laid down Baker fullbore. Rigged up Triangle and ran noise log from 6978' (top of liner) to surface. No evidence of gas movement behind casing. Made up Baker retriving tool and ran in to top of liner. Cleaned out sand from 6978' to 7000. Latched onto and released bridge plug. Pulled above liner and circulated well.

10-7 16th Day. Ran 4-1/8" junk mill and milled up junk from 7174' to 7182'.

10-9 17th Day. Ran in with Lynes Production Tester and set at 6900'. Opened tool at 12:30 P.M. Closed tool at 1:00 P.M. Opened tool for final flow at 1:30 P.M. Closed tool at 9:00 P.M. for final shut in. Backscuttled well clean of gas.

10-10 18th Day. Pulled Lynes Production test tools. Pressures recorded were as follows:

IH	3920
FH	3900
IF	2960
FF	3075
ISI	3160
FSI	3175

Ran Triangle noise log from 7100' to 5000'. Ran Welex gauge on wire line to 6978. Ran and set Baker model "F" packer at 6950' using collar locator. Ran drill pipe to 5000'.

10-11 19th Day. Rigged up and ran 5-1/2" casing Hydrotesting each joint to 4000 psi.

10-12 20th Day. Ran 5-1/2" casing Hydrotesting to 4000 psi.

10-13 21st Day. Finished running 5-1/2" casing which was landed on Baker Model "F" packer at 6950'. Pulled out of packer and circulated inhibitor between casing strings. Relanded 5-1/2" casing with 40,000# on packer.

1978 Daily Well Report for FERNANDO FEE #35 - Aliso Canyon

10-13 Total string weight 132,000#. Picked up B.O.P.E. and installed 5-1/2" slips. Cut off 5-1/2" casing. Set bridge plug at 60'.

10-14 22nd Day. Installed seal flange and tubing head. Reinstalled B.O.P.E. Pressure tested wellhead seals to 5000 psi and re-pressure tested B.O.P.E. with 2-3/8" rams. Recovered bridge plug from 60'. Picked up 2-3/8" tubing, changing collars, cleaning pins, applying Baker seal and hydrotesting to 5000 psi for one minute test on each joint.

10-15 Rig and crew idle.

10-16 23rd Day. Finished running 2-3/8" tubing hydrotesting and changing collars. Landed tubing with 10,000# on packer at 6934'. Pulled up 25,000# to check latch. Tubing string weight 30,000#. Removed B.O.P.E. Installed Xmas tree. Tested tree with 5000# for one hour. O.K.

10-17 24th Day. Changed polymer fluid to lease waste salt water. Set Camco plug in "D" nipple at 6922'. Tested to 2000 psi for 20 minutes.

RELEASED RIG AT 2:00 P.M.

SUBMIT IN DUPLICATE

20798-705 1-74 8M ① OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD ALISO CANYON

Well No. I.W. #66, Sec. 34, T. 3N, R. 16W, S. B. B. & M.

A.P.I. No. 037-21457

Date September 12, 19 78 Signed P. S. Magruder, Jr.

P. O. Box 3249, Terminal Annex
Los Angeles, California 90051 Title Agent
(Address) (213) 689-3561 (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1978	
7-25	Killed well with 445 barrels of 86#/cu.ft. brine-polymer drilling fluid. Started moving in California Production Service Rig D-4.
7-26	Finished rigging up California Production Service Rig #D-4. Removed Xmas tree and installed B.O.P.E. Tested blind rams and pipe rams with 4000 psi with water and nitrogen for 20 minutes each test; Hydril GK with 3000 psi with water and nitrogen for 20 minute test.
7-27	Released tubing from packer. Circulated well. Lost approximately 60-70 barrels to formation. Pulled tubing. Removed and laid down safety system. Made up 7 5/8" bit and casing scraper and started clean-out run.
7-28	Cleaned out to packer at 6975'. Pulled out of well. Ran in with plug and latched into packer. Set plug in packer. Rigged up Halliburton and spotted 9 sacks of sand on top of packer. Pulled up 60' and let stand for 4 hours. Did not locate sand. Spotted 9 more sacks of sand.
7-29	Located top of sand at 6914'. Backscuttled sand down to 6947'. Pulled tubing out of well. Rigged up Welex and shot four 1/2" holes at 6938'. Ran tubing and rigged up Halliburton. Had breakdown of 0.5 cu.ft. per minute at 2000 psi with tubing hung at 6941'. Displaced 30 cu.ft. of water. Mixed 29 cu.ft. (25 sacks) of Class "G" cement with 0.75% CFR-2 and 4 cu.ft. water and 219 cu.ft. of drilling fluid behind. Pulled up to 6324' and squeezed away 9 cu.ft. at 2200 psi. Closed B.O.P.E.
7-30	Rig and crew idle.
7-31	Ran in and found top of cement at 6878'. Pulled out of well. Found 7 joints of tubing cemented. Estimated 2 cu.ft. of cement was squeezed out through the holes at 6938'. Ran in with bit and scraper and drilled out cement to 6944'. Rigged up Halliburton and pressure tested casing at 1850 psi for 20 minutes. Circulated well.

OG 103

8-1 Pulled tubing out of well. Laid down bit and scraper. Rigged up Triangle and ran Noise Log from 6930' to 1000'. Log showed that gas leak had stopped. Cleaned out sand from 6944' to 6975'. Made up Otis retrieving tool and ran in to pull packer plug. Made several unsuccessful attempts to latch into plug. Pulled tubing out of well and found retrieving tool broken, leaving bottom of 12" tool in well.

8-2 Made up 6" O.D. magnet on one stand of 2 7/8" tubing and ran in on sand line - no recovery. Pulled out of well. Made up 7 1/2" O.D. impression block and ran in on sand line - no impression. Made up 5 7/8" O.D. socket with 3 1/8" slips, bumper sub and jars. Ran in to 6867'.

8-3 Attempted to latch onto packer plug with overshot - could not get below 6944'. Pulled out of well and laid down fishing tools. Made up bit and scraper and ran in to 6943'. Drilled out 3' cement bridge and cleaned out to top of packer at 6975'. Circulated well clean. Reran fishing tools and apparently latched onto packer plug.

8-4 Pulled out of well with Otis packer plug and fishing tools. Junk left in hole - one 3/4" x 3 1/4" slips section; 3" of tubing seal divider (guide ring 5 1/2" O.D. 3.69" I.D.); and 2" of X-locking mandrel fishing neck. Picked up sawtooth collar and ran in with 10 joints of 2 3/8" tubing on bottom on 2 7/8" tubing. Cleaned out from 6980' to bottom of 6 5/8" liner at 7223'. Circulated well clean. Pulled tubing out of well. Laid down 2 3/8" tubing and sawtooth collar.

8-5 Made up Lynes tester with three pressure bombs and four-way tool and ran in well. Set packer at 6900' - tail at 6920'. Tool was opened for initial flow at 11:35 A.M. and shut in at 11:45 A.M. Final flow was started at 11:55 A.M. and production test proceeded for 8 hours. Test was completed at 8:00 P.M. - flow rate 11 MM/D - 1200 psi surface pressure. Opened backscuttle tool and filled annulus and tubing with drilling fluid.

8-6 Rig and crew idle.

8-7 Pulled out of well and laid down Lynes testing tools. Rigged up Triangle and ran Noise Log from 7100' to 5000'. No indication of gas leakage. Made up Otis safety system with plug and tested to 5000 psi. Running in with 2 7/8" tubing, hydrotesting to 5000 psi for one minute.

8-8-78 Finished running in well with 2 7/8" tubing. Hydrotested all tubing to 5000 psi for one minute. Landed tubing with 8000# on packer and pulled 25,000# over weight of tubing string to check latch. Removed B.O.P.E. and installed Xmas tree.

8-9 Rigged up Associated Services test pumps and tested Xmas tree to 5000 psi. Circulated 82#/cu.ft. polymer drilling fluid out of well with lease salt water. Rigged up Otis, ran in and pulled side-door choke. Set plug in NO-GO nipple and tested packer and seals to 2200 psi. Pulled tubing plug.
RELEASED RIG at 4:00 P.M. (8-9-78).

jp

FORM 103 SUBMIT IN DUPLICATE △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD ALISO

Well No. I.W. #82, Sec. 27, T. 3N, R. 16W, S.B. B. & M.

Date 10/24/78, 19 Signed Psm/ P.S. Magruder, Jr.

P.O. Box 3249 Terminal Annex
Los Angeles, California 90051 Title Agent
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	MWO 99530
1978	History of Well I.W. #82 - Aliso
7-25	Killed well with 450 barrels of 86#/cu.ft. brine-polymer drilling fluid.
8-9	Moved in California Production Service Rig #D-4. Started rigging up.
8-10	Finished rigging up. Removed Xmas tree and installed B.O.P.E. Tested blind rams and pipe rams to 4000 psi with water and nitrogen for 20 minutes each test. Tested Hydril "GK" to 3000 psi with water and nitrogen for 20 minutes. Released tubing from packer. Attempted to circulate well. Required 188 barrels to fill well. Unable to maintain circulation. Well was taking fluid at a rate of 100 barrels per hour.
8-11	Pumped in 90 sec. viscosity pill to establish circulation. Let pill stand at bottom of well for two hours. Pulled up 12 stands of tubing and attempted to circulate. Unable to maintain circulation and lost 32 barrels to well. Ran 12 stands back in well and pumped in 150 sec. viscosity pill (8 sacks carbonates and 2 sacks HEC polymer).
8-12	Established circulation. Circulated well. Pulled tubing out of well. Picked up Kelly and picked up fishing tools to recover GO-International casing patch. Did not recover patch.
8-13	Rig and crew idle.
8-14	Attempted to recover top section of 8 5/8" casing patch at 3967'. Set spear at 4002' but unable to jar patch loose.
8-15	Ran 5 3/4" spear to 3967' and engaged top of casing patch. When pulling out of well, one stand (60') of 2 7/8" tubing and fishing tools were dropped into well. Unable to run full gauge tools through casing head area, possibly because of junk in wellhead. Made several unsuccessful attempt to run 7 1/4" Johnston Bridge Plug.

8-16 Ran Lynes bridge plug and set at 100'. Dumped two sacks of sand on bridge plug. Removed B.O.P.E. and tubing head. Using Alco casing jacks and spear, removed 40' casing patch from well leaving bottom seals in well. Reinstalled B.O.P.E.

8-17 Reamed 7 13/16" O.D. tapered mill through tight spot in 8 5/8" casing at 14'. Ran in with Lynes retrieving head and circulated sand out. Recovered Lynes packer. Ran Johnston bridge plug and set at 510'. Pressure tested 8 5/8" casing from 510' to surface with 3000 psi for one hour - test O.K. Ran in well with 6 5/8" guide and overshot. Engaged fish at 7086' and pulled to 3989'. Jarred fish through bad spot in casing.

8-18 Laid down fish and fishing tools. Ran in well with Otis seal plug on latch-in locator and set in Otis packer at 7166'. Pulled up 20,000# to check latch. Spotted 10 sacks sand on top of Otis packer at 7166'. Waited one hour. Located sand at 7169'.

8-19 Spotted 10 sacks of sand on top of packer at 7166'. Ran in with 7 13/16" tapered mill and milled from 3990' to 3997'. Circulated well clean. Pulled out of well. Picked up 4 3/4" O.D. jars.

8-20 Rig and crew idle.

8-21 Ran in well with 7 13/16" tapered mill. Reamed from 4038' to 4039'. Ran to 4075' and circulated well clean. Continued running in well. Reamed past tight spot at 5372'. Ran in to 6098' and reamed to top of sand at 7112'. Pulled out of well. Rigged up Welex and shot four 1/2" holes at 7090'. Made up Johnston positrieve squeeze tool with 250' of 2 7/8" tubing stinger below squeeze tool and started running into well.

8-22 Ran in well to 7113'. Spotted 50 cu.ft. of fresh water and established breakdown of 10 cu.ft./minute at 1750 psi. Backscuttled water out. With open-end tubing hung at 7091' and Johnston positrieve squeeze tool at 6841', Dowell mixed and pumped 50 cu.ft. of Neat Class "G" cement with 30 cu.ft. of water ahead, 4 cu.ft. of water behind and 222 cu.ft. of mud to equalize. Pulled 5 stands and backscuttled 22 cu.ft. of excess cement out of well. Cement in place at 11:25 A.M. Set Johnston squeeze tool at 6540' and squeezed away 7.5 cu.ft. of cement at a final pressure of 2500 psi. Held pressure for two hours. Bled off pressure and pulled out of well. Broke off and laid down Johnston squeeze tool. Made up 7 5/8" bit and scraper with 4 drill collars on tubing and ran in well. Tagged soft cement at 6983'. Drilled out from 6983' to 7080'. Circulated well clean.

8-23 Drilled and cleaned out cement from 7080' to 7110'. Circulated well. Pulled out of well and laid down bit and scraper. Made up Johnston positrieve squeeze tool with 250' of 2 7/8" tubing tail on bottom and ran in to 5204'. Set squeeze tool and pressure tested holes at 7090'. Pressure bled from 2500 psi to 1500 psi at a rate of 2 cu.ft. per minute. Ran in to 7091' and set squeeze tool. Obtained breakdown at 2200 psi at a rate of 3 cu.ft. per minute.

8-24 With open-end tubing hung at 7091' and Johnston positrieve squeeze tool at 6841', Dowell mixed and pumped 50 cu.ft. of Neat Class "G" cement with 30 cu.ft. of water ahead, 4 cu.ft. of water behind and 215 cu.ft. of mud to equalize. Pulled 5 stands and backscuttled 20 cu.ft. of excess cement out of well. Cement in place at 7:15 A.M. Set Johnston squeeze tool at 6540' and squeezed away 9 cu.ft. of cement at a final pressure of 2500 psi. Held pressure for four hours. Bled off pressure and pulled out of well. Laid down Johnston squeeze tool. Made up 7 5/8" bit and scraper with four drill collars on tubing and ran in well. Tagged cement at 6978'. Drilled out from 6978' to 7110'. Circulated well clean.

8-25 Pulled tubing out of well. Laid down bit and scraper. Made up Johnston positrieve squeeze tool and ran in to 4300'. Set tool and pressure tested casing. Pressure bled from 2500 psi to 2400 psi in 20 minutes. Pulled tubing and squeeze tool out of well. Rigged up Dresser Atlas and shot two 1/2" holes from 7088' to 7089'. (2 shots misfired). Made second run and shot four 1/2" holes from 7088' to 7089'. Made up squeeze tool and ran in to 7019'.

8-26 With open-ended tubing hanging at 7091' and Johnston positrieve squeeze tool at 6841', Dowell spotted 30 cu.ft. of fresh water and established breakdown of less than 1 cu.ft. per minute at 1900 psi. Backscuttled water out. Dowell mixed and pumped 50 cu.ft. of Neat Class "G" cement with 30 cu.ft. of water ahead, 4 cu.ft. of water behind and 215 cu.ft. of mud to equalize. Pulled 5 stands and backscuttled 36 cu.ft. of excess cement out of well. Cement in place at 9:30 A.M. Set Johnston squeeze tool at 6540' and squeezed away 2 cu.ft. of cement at a final pressure of 2500 psi. Held pressure for 4 hours. Bled off pressure and pulled out of well. Laid down squeeze tool. Made up 7 5/8" bit and scraper with four drill collars on tubing and ran in well. Tagged top of cement at 7094'.

8-27 Rig and crew idle.

8-28 Drilled out cement from 7094' to 7120'. Circulated well clean. Made up Johnston positrieve squeeze tool and ran into well. Set tool at 4300' and pressure tested casing. Pressure bled from 2500 psi to 2300 psi in two minutes. Ran tubing to 7090' and spotted 30 cu.ft. of water across perforations. Pressured up on casing. Casing held 2500 psi O.K. for 20 minutes. Continued pressure testing casing up hole. Isolated possible casing leak between 6014' and 6055'.

8-29 Rigged up Triangle and ran Noise Log. Recorded from 7110' to 3000'. Rigged up McCullough to run Casing Inspection and Caliper Logs. Recorded Caliper Log from 7086' to 3000'.

8-30 Rigged up McCullough to complete Caliper Log. Recorded from 3000' to surface. Ran McCullough Casing Inspection Log. Tool malfunctioned. No log was obtained. Rigged up Triangle to verify accuracy of of previously run Noise Log. Results were inconclusive.

8-31 Rigged up McCullough and ran Casing Inspection Log. Recorded from 7080' to surface. Ran Triangle Noise Log. Recorded from 7080' to surface. Determined that gas movement behind casing had stopped. Made up Johnston positrieve squeeze tool and ran in well. Set squeeze tool at 6027' and pressure tested casing to 2000 psi. Casing held pressure. Continued pulling up and testing at 5' intervals. Found no leaks between 6027' and 5894'.

9-1 Picked up Johnston 8 5/8" bridge plug and ran in well on 2 7/8" tubing. Set bridge plug at 6998'. Spotted 10 sacks of sand on top of plug. Pulled tubing out of well. Picked up Johnston positrieve squeeze tool and ran into well. Tagged top of sand at 6970'. Set squeeze tool at 6967' and pressure tested bridge plug. Plug held 3000 psi for 20 minutes. Changed over from polymer fluid to lease water.

9-2 Set Johnston positrieve squeeze tool at 6000'. Tested 8 5/8" casing from 6000' to 6998' with 3000 psi for one hour. Test inconclusive. Made tests with packer set at 4000', 5407', 5997', 5710', 5586' and 5523' with inconclusive results. Will change positrieve squeeze tool.

9-3 Rig and crew idle.

9-4 (Labor Day) Rig and crew idle.

9-5 Laid down Johnston test tool. Ran Baker fullbore. Pressure tested 8 5/8" casing from 6998' to 4000' with 3000 psi for one hour - O.K. Tested from 3995' to surface with 3000 psi for one hour - O.K. Isolated leak in 8 5/8" casing at 3997'.

9-6 Removed B.O.P.E. and installed tubing head. Reinstalled B.O.P.E. Tested pipe rams and blind rams at 4000 psi for 20 minutes. Tested Hydril GK at 3000 psi for 20 minutes. Tests witnessed and approved by D.O.G. Tested flanges and seals on tubing head at 5000 psi. Made up Jonston retrieving head and started running in well.

9-7 Ran in with Johnston retrieving head. Located sand fill at 6970'. Cleaned out to 6998'. Pulled Johnston bridge plug from 6998'. Laid down bridge plug and retrieving tool. Made up Otis retrieving head and ran in to 7056'. Changed over from lease water to 83# per cu.ft. polymer drilling fluid. Cleaned out fill from 7056' to 7159'.

9-8 Attempted to recover Otis packer plug. Unable to latch onto plug due to junk (remainder of casing patch seal) wedged inside retrieving tool. Made up new retrieving tool and ran back to top of plug. Latched onto plug and pulled out of packer. Circulated well to clear gas. Approximately 13 barrels were lost to formation. Spotted high viscosity pill (300 sec.) across production zone. Started pulling out of well.

9-9 Ran in well with sawtooth collar on 2 3/8" tubing and cleaned out fill from 7258' to 7333'. Circulated well clean.

9-10 Rig and crew idle.

9-11 Ran in with production tester and set packer at 7082' with tail to 7102'. Opened tool at 11:30 A.M. for 5 minute initial flow. Closed for three hour initial shut-in. Final flow 6 1/2hours with gas to surface at 6:30 P.M. Flowed gas 2 1/2 hours. Closed tool at 9:00 P.M. for final shut-in. Backscuttled well to clear tubing of gas.

9-12 Pulled Lynes tester. Pressure chart readings were as follows:

IH 3970 psi
FH 3920 psi
IF 2300 psi
FF 2240 psi
ISI 2900 psi
FSI 2930 psi

Ran 2 7/8" tubing with 200' 2 3/8" tubing on bottom and sawtooth collars. Cleaned out from 7299' to 7335'. Circulated gas-cut mud from well. Ran in with production Lynes tester #2 to 7102'.

9-13 Set Lynes production tester at 7083' with tail to 7103'. Opened tool at 7:08 A.M. Closed tool at 10:08 A.M. Closed tool for final shut-in at 7:08 P.M. Backscuttled tubing free of gas and secured well. (Final pressure 880 psi).

9-14 Pulled out with Lynes production tester, pressures as follows:

Hydrostatic	3950 psi
Initial Flow	2110 psi
Final Flow	2020 psi
Final Shut-in	2965 psi

Ran Noise Log and found no gas leakage. Ran 7 5/8" bit and 8 5/8" casing scraper to 4100'. Circulated well clean.

9-15 Set casing patch in 8 5/8" 36# casing at 4016' - top 3974' (42') over stage collar leak at 3997'. Laid down 4 3/4 drill collars, Kelly and swivel.

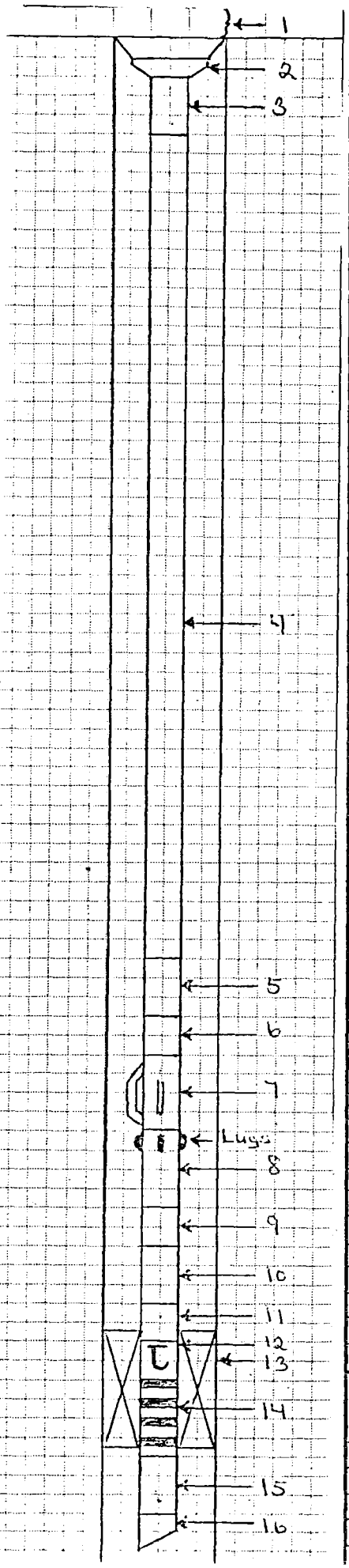
9-16 Ran Otis 2 7/8" annular flow safety system on 2 7/8" EUE 8rd tubing, removing collars, cleaning pins, applying Bker seal and hydrotesting each joint to 5000 psi for one minute test. Landed tubing with 10,000# on packer. Pulled 25,000 and checked latch. Tubing string weight 42,000#.

9-17 Rig and crew idle.

9-18 Removed B.O.P.E. and installed Xmas tree. Rigged up Associated Services test pumps and tested Xmas tree to 5000 psi. Circulated 82#/cu.ft. polymer drilling fluid out of well with lease salt water. Rigged up Archer Reed, ran in and pulled side-door choke. Set plug in NO-GO nipple and tested packer and seals to 2000 psi for 20 minutes. Pulled tubing plug. Started rigging down. RELEASED RIG at 10:00 P.M.

AA/emr

WELL PROFILE



OPERATOR: SOUTHERN CALIFORNIA GAS COMPANY

WELL #: I.W. #82

FIELD: Aliso Canyon

COUNTY: Los Angeles

STATE: California

DATE: September 16, 1978

☐ NEW COMPLETION ☒ WORKOVER

	CASING	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE					
WEIGHT					
GRADE					
THREAD					
DEPTH					

ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	Kelly Bushing to Tubing Hanger	15.00	15.00
2.	Doughnut	.60	15.60
3.	Pup Joint 2 7/8" N-80 8rd EUE 6.5#	7.72	23.32
4.	227 Joints 2 7/8" 8rd EUE 6.5# N-80 2.441" with J-55 Collars	7100.55	7123.87
5.	Pup Joint 2 7/8" 8rd EUE 6.5# N-80	4.10	7127.97
6.	Otis "X" Nipple 2 7/8" 2.313" I.D.	1.11	7129.08
7.	Otis Annular Flow Safety System	7.65	7136.73
8.	Otis Blast Joint 3.668" O.D. x 2.375" I.D.	19.95	7156.68
9.	Otis "XN" NO-GO Nipple 1.791" I.D.	1.20	7157.88
10.	Otis Blast Joint 3.668" O.D. x 2.375" I.D.	10.03	7167.91
11.	Crossover 2 7/8" 8rd 10rd 3 1/2"	1.17	7169.08
12.	Otis "J" Latch	.82	7169.90
13.	Otis "PW" Permatrieve Packer 7.50" O.D. x 4.00" I.D. set by wireline measurement at.....		7170.00
14.	Otis Seal Unit (4) 4.04" O.D. x 3.00" I.D.	4.05	7173.95
15.	Otis Production Tube	2.24	7176.19
16.	Otis Mule Shoe Guide	.98	7177.17

- NOTES -

Tubing landed with 10,000# on packer.
Pulled 25,000# over tubing to check latch.
Otis 2 1/2" "X" Separation Tool ran in place.

COMMENTS:

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon, Los Angeles
Well IW #82, Sec. 34, T 3N, R 16W, S.B. B. & M.
A.P.I. No. 037 - 21458 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date May 7, 1980

Signature P. S. Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, Cal 90051 (213) 689-3561
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1980	MWO # 99621 was issued to repair leak in stage collar at 3,978' by removing casing patch, cementing leak and installing a new casing patch.
4.17.	1st Day. Moved in rig and rigged up.
4.18.	2nd Day. Circulated out gas and 63#/cu.ft. polymer completion fluid with 76#/cu.ft. polymer completion fluid. Set plug in doughnut and removed xmas tree. Installed BOPE equipment. Pressure tested BOPE with water and nitrogen; blind rams, pipe rams and choke manifold at 4,000 psi for 20 minutes and hydril bag at 2,400 psi for 20 minutes. Finished rigging up.
4.19.	3rd Day. Worked and pulled pipe to the right to unlatch from the packer. Unlatched and pulled 20'. Circulated and pulled 10' and got stuck. Turned pipe and pulled 120,000#. Made 10' but stuck the tubing. Ran Freepoint survey and determined pipe was free to the safety valve. Ran chemical cutter but could not go all the way down the well. Pulled 110,000# to let cutter go down the well and the tubing came loose. Cancelled cutter. Unlatched from packer again and pulled 30 joints of 2 7/8" tubing with collars dragging on the casing patch.
4.20.	Rig and crew idle.
4.21.	4th Day. Measured out of the well. Stopped at casing patch. Could not work through. Ran chemical cutter and cut tubing at 3,974' leaving 165' of 2 7/8" tubing, 40' of safety system and 8' of seals and production tube. Ran 6 1/4" guide shoe and 5 3/4" Bowen overshot without a grapple. Pushed top of fish to 4,109'.

4.22. 5th Day. Pulled out of the well. Ran spear with stop , bumper sub, jars and four 4 3/4" drill collars. Ran in the well to 4,000'. Stop failed to locate the spear correctly. Jarred out of the casing patch. Pulled out of the well. Ran spear, one 4 3/4" drill collar, 7 1/4" stop, bumper sub, jars and four 4 3/4" drill collars. Ran spear to 3,979'. Pushed casing patch together and set spear at 4,009'. Jarred out of the well to 2,000'.

4.23. 6th Day. Finished pulling casing patch to casing head. Using casing jacks, jacked casing patch through casing head. Recovered 36' of patch.

4.24. 7th Day. Pulled out of well. Ran 7" spear, bumper sub, jars and two 4 3/4" drill collars and speared fish at 4,010'. Jarred out of well and recovered bottom 5' section of the casing patch. Ran 2 7/8" overshot, bumper sub, jars and two 4 3/4" drill collars. Located fish at 4,109'. Jarred out of well. Recovered 5 joints of bent 2 7/8" tubing, Otis annular safety system, sheared "J" latch and seals. Ran in well with 7 5/8" bit, scraper and two 4 3/8" drill collars. Located fish at 3,993'. Circulated one hour.

4.25. 8th Day. Ran 4" spear with a 3' stop, bumper sub, jars and two 4 3/4" drill collars. Speared into packer at 3,992'. Jarred on packer and the bottom pack-off of the casing patch. Released spear and left fish in well.

4.26. 9th Day. Pulled out of well. Ran 7 5/8" junk mill, stabilizer, junk sub and 60' of 4 3/4" drill collar. Milled 2' with good cuttings at the surface. Mill hung up on junk. Pulled out of well. Ran 4" spear, stop sub, bumper sub, jars and two 4 3/4" drill collars and accelerator to 3,904'.

4.27. Rig and crew idle.

4.28. 10th Day. Jarred packer loose from 3,904'. Pulled packer. Ran in with 7 5/8" bit, 8 5/8" casing scraper. Cleaned out to 7,183'. Circulated well clean. Pulled out and ran in with Baker model "C" bridge plug set at 4,082'. Closed rams and pressured up to 1,500 psi which bled off 400 psi in 10 minutes.

4.29. 11th Day. Equalized 6 sacks of sand on top of bridge plug at 4,082'. Pulled up 75' and waited one hour. Ran down and located sand at 4,067'. Equalized 50 cu.ft. of 12% HcL and 3% HF acid and pumped away 45 cu.ft. at rate of 17 cu.ft./minute with 2,000 psi. Equalized 115 cu.ft. of class "G" cement with 1% CFR-2 at 3,988'. Pulled up 420' and closed rams and pressured up to 2,200 psi. Displaced 15 cu.ft. of salt water and held for two hours. Bled back 11 cu.ft., thus squeezing away 4 cu.ft. Pulled out and ran in with 7 5/8" bit and 8 5/8" casing scraper and one stand of drill collar. Drilled out cement 3,644' to 3,860'. Circulated well clean.

4.30. 12th Day. Drilled out cement from 3,850' to 3,988'. Tested casing with 1,500 psi for 20 minutes. Circulated waste salt water out of well with 76#/cu.ft. polymer completion fluid. Backscuttled sand off of bridge plug. Recovered model "C" bridge plug. Set 8 5/8" Otis permatrieve packer at 7,130' on wire line.

5.01. 13th Day. Ran in well with Otis latch-in locator and two seals. Set in packer at 7,130' and pulled 20,000# over the weight of string. Pressure tested packer and seals to 1,500 psi. Pulled out and ran and set 42' Pengo casing patch from 4,007' to 3,965'.

5.02. 14th Day. Ran in well with Otis production tube, three seals, latch-in locator, 2.205" "XN" nipple and annular flow safety system. Hydrotested tubing to 4,000 psi and changed collars. Latched in to packer and pulled 20,000# over weight of string to check latch. Set down on packer with 10,000# and secured well.

5.03. 15th Day. Removed BOPE and installed xmas tree. Pressure tested to 5,000 psi. Circulated polymer completion fluid out of well with 440 barrels of waste salt water. Released rig at 7:00 pm.

OTIS COMPLETION GUIDE

OTIS ENGINEERING CORPORATION
GENERAL OFFICE: Belt Line Rd. at Webb Chapel
P. O. Box 34380, DALLAS, TEXAS 75234
A HALLIBURTON Company

OEC-217-B

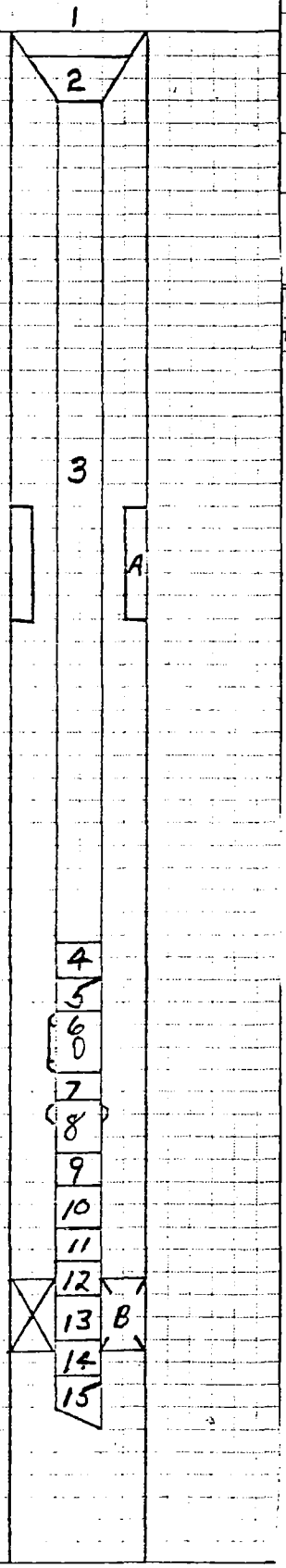
PREPARED FOR	COMPANY	TELEPHONE	DATE
MR. Ed Lancaster	Southern California Gas	(213) 368-3608	5.6.80.

FIELD NAME	WELL NAME	COUNTY	STATE	
Aliso Canyon	IW #82	L.A.	Cal	☐ NEW COMPLETION ☒ WORKOVER

	SIZE	WEIGHT	GRADE	THREAD	DEPTH
CASING	8 5/8"	36#			
LINER					

(X) SAFETY EQUIPMENT ( ) GAS LIFT EQUIPMENT (X) PACKERS AND ACCESSORIES
( ) COMPLETION EQUIPMENT ( ) POST COMPLETION EQUIPMENT

TUBING SIZE UT 2 7/8" THREAD 8rd EUE



	DESCRIPTION OF EQUIPMENT	Length	Depth
1.	K.B.	15.00	15.00
2.	Doughnut 2 7/8" EU x 2 7/8" EU	0.60	15.60
3.	226 Jts 2 7/8" EU 8rd N-80 tubing	7069.00	7084.60
4.	Pup Jt 2 7/8" EUE 8rd N-80	2.15	7086.75
5.	X nipple 2.350 I.D.	1.20	7087.95
6.	Otis 2.313 annular flow safety system	7.80	7095.75
7.	Pup Jt 2 7/8" EUE 8rd	2.10	7097.85
8.	Otis Blast Jt 4.50 OD 2.347 I.D.	19.90	7117.75
9.	Otis 2.205 No-GO Nipple	1.30	7119.05
10.	Otis Blast Joint 3.668 OD 2.347 ID	9.85	7128.90
11.	X-over 2 7/8" EU x 3 1/2" EU	1.10	7130.00
12.	Otis J latch assembly	1.25	7131.25
13.	Otis seal assembly - 3 - 3.00 ID	3.03	7134.28
14.	Otis Production Tube	3.25	7137.53
15.	Otis Guide Shoe	1.20	7138.73
A.	Pengo patch w/l set at 3,965' to 4,007'.		
B.	Otis 8 5/8" 32-40# PW packer w/l set at 7,130' ± .		
1.	Otis X nipple at 7,088' ran with 2.350 side-door choice in place.		
2.	Tubing landed with 9,000# on packer. Pulled 25,000# over to check latch.		
3.	Tubing weight 41,000# on hook.		
4.	Added 1.25' to tubing for w/l correction.		
	TOTAL ESTIMATE		7138.73

COMPLETION PROCEDURE

AC_CPUC_0036221

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well IW #82, Sec. 34, T3N, R 16W S.B.B. & M.
A.P.I. No. 037-21458 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date December 1, 1980

Signature

P.O. Box 3249 Terminal Annex, Los Angeles, Cal. 90051 (213) 689-3561
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
980	MWO 99621 was issued to correct shoe leak.
0.29.	1st Day. Removed xmas tree. Installed BOPE.
0.30.	2nd Day. Rigged up California Production Service Rig #D-4. Pressure tested blind rams, pipe rams and manifold to 4,000 psi. Pressure tested hydril to 3,000 psi. Attempted to circulate well, losing 60 bbls per hour. Mixed and displaced high viscosity pill on bottom.
0.31.	3rd Day. Pulled out of well with 2 7/8" tubing. Made up spear and ran in to patch at 3,965'. Pulled on patch with 20,000# overweight of tubing.
1.01.	4th Day. Recovered top swedge from patch. Ran spear in to patch to 4,003'. Pulled out slowly with patch. Patch stopped in wellhead and could not work through same.
1.02.	Rig and crew idle.
1.03.	5th Day. Pulled casing patch to wellhead. Rigged up casing jacks and pulled patch through wellhead with 200,000#. Laid down and loaded out casing jacks. Broke down fishing tools. Made up 7 5/8" junk mill.
1.04.	6th Day. Finished running in well with 7 5/8" mill to 4,008'. Milled on swedge from bottom of casing patch. Pushed swedge to 7,130'. Circulated conditioned mud for three hours. Ran in with packer retrieving tool. Latched into packer at 7,130'. Worked to release packer. Jars failed. Released from packer.

11.05. 7th Day. Ran in with new jars and latched on to packer at 7,130'. Jarred packer loose. Pulled out 120' with packer swabbing well. Shot two 3/8" holes in 2 7/8" tubing at 6,647'. Pulled packer.

11.06. 8th Day. Ran model "N" drillable bridge plug on wire line set at 7,130'. Ran in retrievable retainer to 7,128' with 300' tubing tail. Circulated polymer fluid out of well with waste salt water.

11.07. 9th Day. Set retainer at 6,828' with 2 7/8" tubing tail to 7,128'. Equalized 100 cu.ft. of 12% HCL and 3% HF acid. Obtained breakdown at 17 cu.ft./minute at 2,400 psi. Mixed 50 cu.ft. of cement, pressured up to 2,500 psi and retainer failed. Backscuttled out cement and pulled out retainer. Ran drillable retainer to 6,980' on wire line.

11.08. 10th Day. Obtained breakdown with 12 cu.ft./minute at 2,400 psi. Mixed 50 sacks self-stress cement. Pumped in well with 26 cu.ft. out holes at final pressure of 2,500 psi. Pulled out of well. Ran in well with 7 5/8" mill and two junk subs.

11.09. Rig and crew idle.

11.10. 11th Day. Milled up retainer at 6,980' and cement to 7,002'. Mill stopped. Pulled out with 7 5/8" mill. Ran back in well with 7 5/8" bit on drilling assembly and drilled out cement from 7,002' to 7,046'.

11.11. 12th Day. Continued drilling out cement from 7,046' to 7,095'. Cleaned out to 7,130' (top of bridge plug). Ran 8 5/8" retrievable retainer with 310' of tail to 7,081'. Pressure tested down tubing 2,000 psi for 20 minutes. Pulled out with retainer.

11.12. 13th Day. Ran in well with 7 5/8" bit and drilling assembly. Displaced 63#/cu.ft. lease water from well with 85#/cu.ft. polymer completion fluid. Drilled up 8 5/8" bridge plug at 7,130' and cleaned out to 7,182'. Pulled out of well. Made up 5 3/4" bit with 4 1/2" O.D. junk sub and 8 5/8" scraper.

11.13. 14th Day. Cleaned out to 7,188' with 5 5/8" bit and junk sub below 8 5/8" scraper. Ran 5 5/8" bit below drilling assembly and cleaned out to 7,274'. Circulated well and started out with bit.

11.14. 15th Day. Ran 5 5/8" concave mill on drilling assembly and cleaned out to 7,333'. Circulated well and pulled out. Made up 8 5/8" test tools on 2 7/8" tubing with 8' of tail and started in well.

1.15. 16th Day. Pressure tested manifold, rig manifold and lines at 4,000 psi for 20 minutes. Set test tools at 7,156' with tail to 7,164'. Opened tool and flowed well for two hours. Had gas to surface in 2 minutes with surface pressure of 2,300 psi. Shut in pressure after flow 2,650 psi. Closed tool and ran Noise log from 7,115' to 4,700'. Showed no noise above WSO holes at ~~7,190'~~ 7090'. Displaced gas from tubing with 87#/cu.ft. polymer completion fluid and released test tools.

1.16. Rig and crew idle.

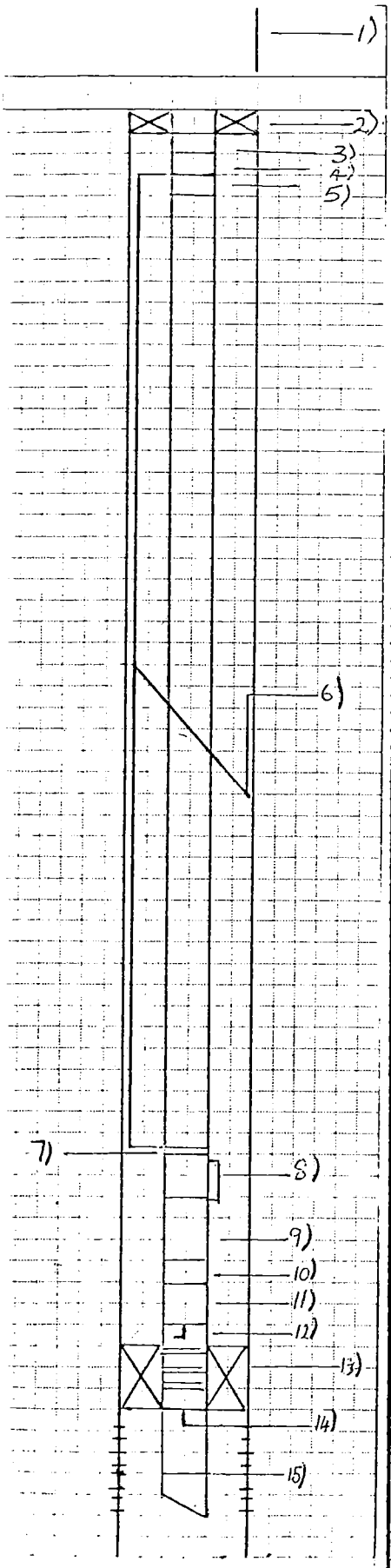
1.17. 17th Day. Circulated well. Pulled out of well and broke down testing tools. Ran in well with 5 3/4" mill to 7,333' and found no fill.

1.18. 18th Day. Set permatrieve packer in 8 5/8" casing at 7,150'. Ran in with casing patch and set top seal at 3,966' and bottom seal at 4,008'. Set with wire line. Pulled out of well with 2 7/8" tubing. Made up two seals and ran in changing to chamfered collars on tubing.

1.19. 19th Day. Ran in with two seals, latch-in locator sub and latched into packer at 7,151'. Pulled 25,000# over weight of tubing to check latch. With 10,000# on packer tested seals and packer with 1,500 psi. Made up production system and hydrotested tubing to 5,000 psi. Landed tubing with 10,000# on packer. Removed BOPE and installed xmas tree.

1.20. 20th Day. Tested xmas tree to 5,000 psi. Circulated 86# polymer completion fluid out of well with waste salt water. Released rig at 7:00 pm.

WELL PROFILE



OPERATOR: Southern Calif. Gas Company

WELL #: IW #82

FIELD: Aliso Canyon

COUNTY: Los Angeles

STATE: California

DATE: November 20, 1980

☐ NEW COMPLETION ☒ WORKOVER

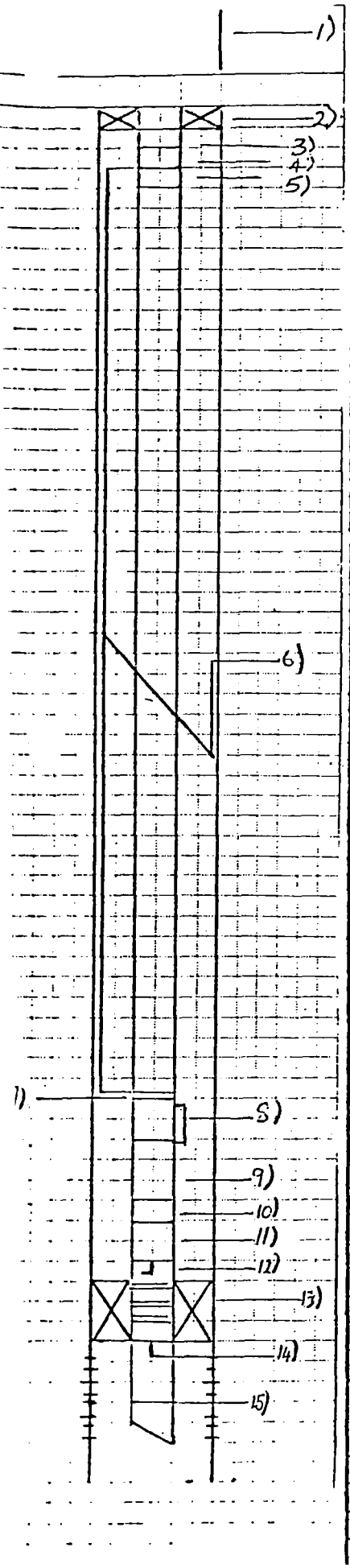
	S	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE	8 5/8"				
WEIGHT					
GRADE					
THREAD					
DEPTH					15.00

ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	K.B.	15.00	0.00
2.	Doughnut 2 7/8" EUE 8rd	1.00	15.00
3.	Pup Joint 2 7/8" 8rd	6.20	16.00
4.	Pup Joint 2 7/8" 8rd	8.10	22.20
5.	Pup Joint 2 7/8" 8rd	8.10	30.30
6.	221 Joints 2 7/8" 8rd Tubing	7070.36	38.40
7.	Pup Joint 2 7/8" 8rd x 2'	2.15	7108.76
8.	Otis 2 7/8" annular flow system	8.85	7110.91
9.	Blast Joint 2 7/8" x 20'	20.45	7119.76
10.	Otis "XN" landing nipple (2.205)	1.30	7140.21
11.	Blast Joint 2 7/8" x 10'	9.80	7141.51
12.	Otis "J" Latch Locator	0.40	7151.31
13.	Otis 8 5/8" PWC Packer (3.25)	4.20	7151.71
14.	Otis production seal assembly (3.25)	2.85	7155.91
15.	Otis production tube with guide	3.18	7158.76
			7161.94
	Tubing landed with 10,000# compression		

COMMENTS:

		7161.94

WELL PROFILE



OPERATOR: Southern Calif. Gas Company

WELL #: IW #82

FIELD: Aliso Canyon

COUNTY: Los Angeles

STATE: California

DATE: November 20, 1980

☐ NEW COMPLETION ☒ WORKOVER

	CASING	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE	8 5/8"				
WEIGHT					
GRADE					
THREAD					
DEPTH					

ITEM NO.	TUBING DETAILS		
1.	K.B.	15.00	15.00
2.	Solid Doughnut 2 7/8" EUE 8rd	1.00	16.00
3.	Pup Joint 2 7/8" 8rd	6.20	22.20
4.	Pup Joint 2 7/8" 8rd	8.10	30.30
5.	Pup Joint 2 7/8" 8rd	8.10	38.40
6.	221 Joints 2 7/8" 8rd Tubing	7070.36	7108.76
7.	Pup Joint 2 7/8" 8rd x 2'	2.15	7110.91
8.	Otis 2 7/8" annular flow system	8.85	7119.76
9.	Blast Joint 2 7/8" x 20'	20.45	7140.21
10.	Otis "XN" landing nipple (2.205)	1.30	7141.51
11.	Blast Joint 2 7/8" x 10'	9.80	7151.31
12.	Otis "J" Latch Locator	.40	7151.71
13.	Otis 8 5/8" PWC Packer (3.25)	4.20	7155.91
14.	Otis production seal assembly (3.25)	2.85	7158.76
15.	Otis production tube with guide	3.18	7161.94

Tubing landed with 10,000# compression

COMMENTS:

7161.9

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Fernando Fee 35 C, Sec. 34, T 3N., R 16W., SB. & M.
A.P.I. No. 037-21279 Name R. D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 13, 1990

Signature J. B. Lane

J. B. Lane for R. D. Phillips

P. O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) 213-689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1990	
6-06 to 6-12	Move in and rigged up on well.
6-13	Installed equalizing back pressure valve. Removed xmas tree and installed BOPE.
6-14	Attempted to test BOPE. Donut leaked and would not test. Pressure released tubing hanger from tubing head. Worked tubing, trying to release seals and latch from packer.
6-15	Attempted to release seals and latch from packer with no success. Ran free point and back off shot. Free point showed movement of pipe to packer. Fired string shot in packer at 6893'. Unable to unlatch from packer.
6-16	Backed off 2-7/8" tubing at 6861'. Pulled and re-dressed doughnut. Tested pipe rams, blind rams and manifold to 4000 psi. Tested Hydril bag to 2700 psi. Witnessing of test was waived by Pam Ceccarelli of the DOG.
6-18	Pulled 2-7/8" 6.5# J-55 8rd EUE tubing and accessories, leaving one joint of tubing latched into the packer. Changed pipe rams from 2-7/8" to 3-1/2". Picked up and stood back kelly and 6" drill collars.
6-19	Made up 5" mill shoe, one joint of 5" wash pipe, bumper sub, and jars. Picked up and ran 3-1/2" IF drill pipe to 6800'.

Dist 8/22
DOG 12/17

OG103 (10/89/GSR1/5M)

AC_CPUC_0036227

6-20 Located 6-5/8" liner top at 6859'. Backscuttled and cleaned out sand from 6861' to 6892'.

6-21 Washed over fish from 6861' - 6892'. Backscuttled sand out of well. Pulled out of well. Laid down wash pipe.

6-22 to 6-23 Made up fishing tools. Ran in and attempted to screw onto fish. Pulled loose from fish at 30,000 lbs. over. Ran chemical cutter. Tool stopped at 6861'. Pulled chemical cutter and CCL. Circulated and attempted to screw onto fish - would come off fish at 30,000 lbs. over.

6-25 to 6-27 Picked up one joint of 5" washover pipe with mill shoe. Ran in and circulated over fish from 6863' - 6892'. Backscuttled for thirty minutes. Pulled out of well with wash pipe. Made up Bowen overshot and attached grappel to fish at 6861'. Jarred on latch and seals, worked pipe free.

6-28 to 6-29 Pulled out of well. Made up 3-1/16" grapple. Ran in well to 6090'. Attached grapple to fish. Jarred and worked pipe attempting to release latch and seals. Pulled out of well. No recovery.

6-30 Rig shut down.

7-02 to 7-03 Made up 5" washpipe with sawtooth and 4-3/4" overshot. Ran in well to 6890' and backscuttled for 45 minutes. Attached to fish and worked 7 rounds of torque into pipe. Latch did not release. Released overshot from fish. Pulled out of well. Made up outside cutting tool.

7-05 to 7-06 Ran in and out of 2-7/8" tubing at 6889' just above packer. Pulled out of well. Recovered 27.12' of 2-7/8" tubing. Made up and ran grapple on fishing assembly to fish at 6892'. Backscuttled - 45 minutes. Attempted to attach grapple to latch with no success. Pulled out of well.

7-07 Made up overshot with 2-7/8" grapple. Ran in well and attached grapple to 2-7/8" fish at 6889'. Jarred and worked fish to 140,000 lbs. (50,000 lbs. over hook weight).

7-09 Rig down for repair.

7-10 Pulled out of well. No recovery. Made up 5-1/16" x 4" mill shoe on bottom hole assembly and ran in well to 6823'.

7-11 Ran in and milled on junk at 6892' with reverse circulating tool. Pulled out of well and laid down mill. Made up grapple on bottom hole assembly. Ran in to 2057'.

7-12 Finished running in well to latch at 6892'. Attached grapple to latch and jarred to 180,000 lbs. (90,000 lbs. over hook weight). Pulled out of well. Left overshot bowl and grapple in well.

7-13 Modified pilot mill. Ran in well to 6859'. Circulated and conditioned drilling fluid.

7-14 to 7-17 Milled on 6-5/8" 28# liner and 6-5/8" x 8-5/8" liner hanger from 6859' to 6870'. Circulated clean. Pulled out mill #1 (50% used). Made up mill #2.

7-18 to 7-19 Ran in mill down to liner at 6870' (would not mill). Pulled out with mill #2. Cut bottom wing off mill.Milled on 6-5/8" liner from 6870' to 6882'. Circulated clean.

7-20 Pulled out of well. Made up washover mill shoe 7-9/16" x 5-9/16" on 6" drill collars. Ran in to 6800'.

7-21 Milled on 6-5/8" liner from 6882' to 6883'. Circulated well clean and pulled out of well. Laid down wash pipe.

7-23 Rig and crew idle.

7-24 Made up shoe and washover pipe and ran in well.

7-25 Finished running in well to 6883' with sawtooth washover shoe. Milled between 6-5/8" x 8-5/8" pipe for 70 minutes - made 3". Circulated bottoms up. Recovered gravel and small metal stringers.

7-26 Milled with sawtooth between 8-5/8" x 6-5/8" pipe for 90 minutes (no progress). Pulled out of well. Sawtooth showed no wear.

7-27 Made up 5" surge tool. Ran in well and surged from 6883' to 6890'. Pulled out of well with surge tool, recovered metal cuttings. Made up 7-1/2" x 5-1/2" mill shoe on 38' of wash pipe.

7-28 Ran in well with 7-1/2" x 5-1/2" mill shoe. Milled from 6883' to 6889'. Circulated well clean.

7-30 Cleaned out 2' fill. Milled 6". Rig down for repair.

7-31 Milled on 6-5/8" liner from 6889' to 6892'. Pulled millshoe #1. Made total of 9'. Made up mill shoe #2. Ran in well to 3596'.

8-01 Finished running in well. Reamed from 6887' - 6892'. Continued milling 6-5/8" 28# liner from 6892' to 6897'.

8-02 Milled and cleaned out rubber from 6897' - 6898'.

8-03 Pulled out of well with 7-1/2" x 5-1/2" mill shoe. Made up surge tool. Ran in well to 3100'.

8-04 Finished running in well with surge tool. Surged at 6893'. Pulled out of well. Recovered one gallon of metal and rubber. Made up 2-3/4" basket grapple on bumper sub, jars, and four 6" drill collars. Ran in well to 5883'.

8-06 Finished running in well and attached grapple to 2-7/8" tubing at 6887'. Jarred on fish to 170,000 lbs. Tried to work packer down hole. Pulled out of hole. Recovered metal, rubber, and a 12" piece of 2-7/8" tubing.

8-07 to 8-09 Made up 7-1/2" x 5-1/2" mill shoe. Milled over packer from 6894' to 6900'. Rubber and metal returns over shale shaker. Backscuttled and circulated bottoms up. Pulled out of well.

8-10 Made up surge tool. Ran in well and surged from 6892' to 6900'.

8-11 Pulled out of well with surge tool. Recovered one gallon of metal plus two slivered pieces of 6-5/8" liner (each approx. 11' long). Made up 4-5/8" grapple in 7-3/8" overshot, 6" bumper-sub, 6" jars, 4-6" drill collars and accelerator. Ran in well to 6896' and attached to fish. Jarred on fish. Pulled out of well. Recovered 6" long piece of 6-5/8".

8-13 Made up 7-1/16" impression block on two joints 2-7/8" tubing. Ran to 6900' on sand line. I.B. showed 1-3/16" x 3/16" mark in center of block. Changed out Hydril bag. Made up 5-3/4" x 2-1/2" taper mill.

8-14 Ran in well and stopped at 6896'. Milled to 6897'. Pulled out. Mill showed wear on 5-3/4" O.D. Had 2 pieces of tubing 6" long x 2" wide in mill. Laid down mill.

8-15 Made up 5-7/8" short-catch overshot with 4-5/8" basket grapple and ran in well. Latched onto fish at 6897'. Jarred on fish to 180,000 lbs. (80,000 lbs over string weight). Overshot grapple worn out after two hours of jarring.

8-16 Pulled out of well. 4-5/8" grapple gone from overshot. Made up 7-3/8" mill shoe built up to 7.5" OD x 5.6" ID with tungsten carbide insert buttons. Ran in to 6897'. Backscuttled well clean and worked over fish to 6898'.

8-17 Continued to mill on 6-5/8" casing at 6897'. Attempted to mill with no pump for 30 minutes. Would not mill. Milled 9-1/2 hours. Laid down backscuttle tools.

8-18 Rig down for repair.

8-20 Cleaned out to 6899'. Pulled mill shoe #4. Made up mill #5 and ran in to 2059'.

8-21 Finished running in well with 7-1/2" x 5-1/2" mill shoe. Continued to mill 6-5/8" 28# liner from 6899' to 6902'. Circulated bottoms up.

8-22 Pulled mill #5. Made up 7-1/2" x 5-1/2" mill shoe #6. Ran in well to 2600'. Changed drill line.

8-23 Rig down for repair.

8-24 Finished running in well. Milled element and 6-5/8" liner from 6902'-6903'. Circulated well clean.

8-25 Pulled out with mill shoe. Recovered one quart of metal and one piece of rubber. Made up 7-3/8" overshot with a 5-1/2" grapple and bottom hole assembly. Ran in well to 6896'. Jarred on fish to 135,000 lbs. Pulled to 2050'.

8-27 Finished pulling out of well. Changed from 5-1/2" to 5-3/8" grapple. Ran in to 6896'. Jarred on fish to 160,000 lbs. Pulled out of well. Laid down overshot. Made up 7" x 6-1/4" x 12' washover pipe and surge tools.

8-28 Ran in well with surge tool. Unable to get the 7" x 6-1/4" wash pipe over the packer. Surged for junk at 6895' - 6900'. Pulled surge tool . Recovered two pieces of metal. Made up overshot with 5-1/2" grapple. Ran in well to 6903'. Unable to attach grapple to fish.

8-29 Pulled out of well with 5-1/4" grapple . Made up overshot with 4-1/2" grapple and ran in well to 6897'. Jarred on fish to 202,000 lbs. - 110,000 lbs. over string weight. Pulled out of well to 2100'.

8-30 Pulled out of well with overshot fishing assembly. Recovered 4-11/16" close-catch overshot bowl, Baker latch-in locator sub (damaged from milling), packer mandrel, production tube, and two seal units. Ran Baker Retrieva-D packer retrieving tool to 6900' and attached to packer. Jarred to 152,000 lbs (56,000 lbs over string weight) for one hour.

8-31 Pulled out of well with packer retrieving tool. Recovered 6-5/8" Retrieva-D packer (bottom 2.65') ported extension, lower seal bore, 4" extension sub, X-overs (2), 2-3/8" shear-out safety joint, 2-3/8" collar, and severed 2-3/8" liner. Ran 5" mill shoe, 10 joints washpipe (5" x 4-1/4"), drive sub, jars, and drill pipe to 6885'. Changed well over to 76 pcf workover fluid.

9-01 Circulated and conditioned well fluid to 76 pcf and 40 sec./qt. viscosity. Secured well.

9-04 Rig down for repair.

9-05 Milled and washed over 2-3/8" liner from 6892' to 6939'. Slipped and cut drilling line. Pulled out of well. Had 17' of 2-3/8" liner inside of wash pipe. Laid down fish. Made up new mill shoe on 5" wash pipe.

9-06 Milled and washed over 2-3/8" liner from 6939' to 7012'. Milled lugs at 6979' and 6994'. Unable to make hole. Backscuttled well clean. Started out of well to check mill shoe.

9-07 Finished pulling out of well. Changed out mill shoe and ran in well. Milled and cleaned out junk and sand from 7012'-7034'. Backscuttled well clean. Pulled wash pipe to top of 6-5/8" liner.

9-08 Continued to wash over 2-3/8" liner from 7034'-7101'. Backscuttled well clean. Started out of well to check mill shoe.

9-10 Finished pulling out. Had 156' of 2-3/8" liner stuck in wash pipe. Laid down fish. Found shoe full of junk. Changed shoe, ran in and washed over liner from 7086' - 7127'. Backscuttled well clean.

9-11 Continued to mill and wash over 2-3/8" liner from 7127' to 7170'. Unable to make any hole. Attempted to backscuttle but tools plugged. Pulled out of well.

9-12 Finished pulling out of well. Recovered 78' of 2-3/8" liner (screen) from wash pipe. Made up new shoe. Ran in mill and washed over 2-3/8" liner from 7164' to 7182'. Backscuttled clean and pulled out of well.

9-13 Pulled out of well. No recovery. Laid down wash pipe and made up overshot for 2-3/8" liner. Ran in well to top of liner.

9-14 Attempted to work overshot over top of 2-3/8" liner to 7187'. Pulled out of well. No fish in overshot. Made up 7-5/8" mill. Ran in to top of liner.

9-15 Milled top of 6-5/8" liner down 6905'-6907'. Circulated well clean. Pulled out of well. Made up 5-3/4" x 2-1/4" taper mill. Ran in and reamed thru top of 6-5/8" liner.

9-17 Pulled and laid down 5-3/4" OD taper mill. Ran 7-5/8" bit and 8-5/8" 36# casing scraper to liner top.

9-19 Pulled out of well with bit and 8-5/8" scraper. Ran Vertilog in 8-5/8" from surface to 6898'. Found areas of corrosion in 8-5/8" casing at 6832', 2350', and 966'. Ran 5-5/8" bit and 6-5/8" 28# casing scraper to 7184'.

9-19 Pulled out of well with bit and 6-5/8" scraper. Ran in hole with 5" OD x 10' long surge tool assembly on 2-7/8" tubing, crossed over to 3-1/2" drillpipe. Surged 6-5/8" liner and worked tool from 7185'-7188'. Pulled tool and recovered 3 gallons of iron cuttings and sand, plus a 26" piece of 6-5/8" casing.

9-20 Ran 5" OD x 10' long surge tool assembly on 2-7/8" tubing, crossed over to 3-1/2" drillpipe. Worked surge tool to 7188' and surged 6-5/8" liner. Pulled surge tool - recovered small amount of wire wrap pieces and small packer pieces. Started in well with retrievable bridge plug and fullbore retrievable packer.

9-21 Finished running in well with packer and bridge plug. Set bridge plug at 6895' and tested 8-5/8" casing to 700 psi. Set packer at 5601' and tested to 1500 psi (5601'-6895'). Recovered bridge plug and set at 5633'. Tested 8-5/8" casing to 900 psi (0'-5633'). Set bridge plug at 4407' and tested 8-5/8" casing to 1500 psi (0'-4107'). All tests good-no leaks.

9-22 Pulled out of well and laid down packer and retrievable bridge plug. Left piece of bow spring (7-1/4" x 1-5/8" x 3/16") from plug in well. Ran 8-5/8" 36# x 6-5/8" 28# lead seal driveover adapter and set on top of 6-5/8" liner at 6902'.

9-24 Pulled out with lead seal adapter setting tool. Ran 5-5/8" bit on 2-7/8" tubing, crossed over to 3-1/2" drillpipe to 7190' - unable to work deeper. Circulated well clean. Pulled bit up above liner top.

9-25 Ran in hole with 5-5/8" bit to 7190'. Circulated well and filtered 300 bbls. of wellbore workover fluid.

9-26 Completed filtering workover fluids on the surface and in the well. Pulled out of well with 5-5/8" bit and 6-5/8" casing scraper. Made up tubing conveyed perforating assembly, maximum differential bar vent, 8-5/8" packer, and annulus valve on 3-1/2" drillpipe. Ran in hole to 6800'.

9-27 Completed running in hole. Tagged bottom of hole with perforating assembly and picked up 10' to set packer and test lines. Ran GR correlation log from 6800' - 7000'. Reset packer 10' lower. Using gas, pressured well to 2150' psi surface pressure for 150 psi underbalance (est. fluid level: 5800'). Dropped perforating bar - pressure built to 2300 psi. Flowed well for 11 minutes. Killed by bullheading 78 bbls.

9-28 Ran pulling tool and hydraulic jars on 0.092" slick line and recovered drop bar. Dropped bar for second perforation firing attempt - no indication of firing. Latched onto drop bar with slickline pulling tool and spudded tools twice at 7027'. Recovered drop bar. Pulled perforating assembly - guns failed to fire due to fine metal and rock debris located above firing head.

9-29 Re-ran 4" perforating assembly, maximum differential bar vent, 8-5/8" packer, and annulus valve on 3-1/2" drillpipe. Positioned guns (to perforate 7070'-7110' and 7149'-7179', 4 HPF) and set packer at 6839'. With fluid level in drillpipe at 1525' (for 200 psi underbalance), dropped bar. Noticed 600' rise in fluid level (stabilized).

10-1 Laid down packer and guns, and loaded out. Made up bit and casing scaper for 6-5/8" casing. Ran in well and located fill at 7188', cleaning out to 7190'. Backscuttled gas out of well.

10-2 to 10-03 Rigged up to pick up 2-3/8" wire wrapped liner. Ran 2-3/8" wire wrap liner (250'). Picked up 1.315" OD tail pipe. Ran in well to 7179' (top at 6930'). Mixed and pumped slurry with 45 cu.ft. of 40-60 sand. Established 21 cu.ft. in place, pressure rose to 1200 psi. Backscuttled sand out with 2000 psi.

10-4 Circulated 3 barrels per minute at 700 psi. Pumped 25 cu.ft 40-60 sand, pressure rose to 1200 psi. Backscuttled sand out with 800 psi.

10-5 Pumped 11 cu.ft. of 40-60 sand down at 1.5 bbls. per minute. Unsuccessfully attempted to backscuttle. Worked tool to top of 6-5/8" liner. Pipe backscuttled clean-no sand. Pulled out of well and laid down tubing with tools.

10-6 Attempted to run Photon Log. Stopped at liner top. Rigged down Loggers and ran in with 1" tubing. Located fill at 7169'. Backscuttled fill out of well.

10-8 Pulled out of well. Attempted to run Photon Log. Stopped at 6963'. Pulled out of well and added weight bars. Ran in well and stopped at 7080'. Logged up to 6700'. BESTLINE. HLS

10-9-90 Made up lead seal drive over adapter and ran in well to liner top. Set lead seal adapter (top at 6927'). Made up and set bridge plug at 5925'. Tested to 1000 psi.

10-10 Laid down 3-1/2" IF drill pipe (217 joints), 6" drill collars and tools.

10-11 to 10-12 Loaded out tools and dug out cellar floor to lower wellhead.

10-13 Attempted to remove tubing head and 8-5/8" seal flange. Pulled 68,000 lbs. Could not break seal flange loose. Made up tubing head and BOPE.

10-15 Cut casing head off and lowered 33". Welded new 13-5/8" casing head on. X-rayed weld, (o.k.). Relanded 8-5/8" casing with 100,000 lbs weight in slips. Installed 8-5/8" packing. Ran bridge plug.

10-16 Installed seal flange for 8-5/8" casing and landing spool for 6-5/8" casing. Unable to pump into seal located in landing spool. Picked up BOPE. Removed landing spool to inspect seal (o.k.). Reinstalled landing spool and BOPE.

10-17 Nipped up BOPE, tested to 1000 psi (o.k.). Tested landing spool seal with 4000 psi (o.k.). Laid down tools. Pulled bridge plug from 60'. Ran in well to retrieve bridge plug set at 6000'.

10-18 Ran in to latch bridge plug. Released plug and pulled out. Laid down bridge plug. Made up Otis 8-5/8" packer. Ran in on wireline and set at 6850'. Packer did not set and fell to top of liner. Ran in with seal overshot. Attempted to latch onto packer, no indication at surface that packer was latched.

10-19 Pulled out of well. Recovered Otis packer. Made up new packer. Ran packer on wireline and set at 6850'. Made up Otis test seals (overshot).

10-20 Ran in and located packer at 6850'. Pulled 20,000 lbs weight over. Set 10,000 lbs down on packer. Tested packer with 1500 psi for 30 minutes (o.k.). Released from packer.

10-22 Pulled out of well. Changed pipe rams to 6-5/8". Picked up 6-5/8" N-80 AB FL4S casing, tested to 5000 psi and torqued connections 4800 - 5500 ft-lbs. Ran to 2680'.

10-23 Continued running 6-5/8" N-80 AB FL-4S casing to 6847'. Located and latched packer. Pulled 20,000 lbs over string weight. Set 10,000 lbs on packer. Tested backside to 1,500 psi (o.k.). Released from packer.

10-24 Pumped 155 bbls. of 63 pcf inhibited 2% KCL water to fill 6-5/8" - 8-5/8" casing annulus. Landed 6-5/8" on packer and pulled 20,000 lbs over. Tested with 1500 psi (o.k.). Set top bridge plug. Removed BOPE. Installed slips and tubing head with 20,000 lbs down on packer. Tested seal flange and tubing head to 5000 psi., BOPE to 1000 psi.

10-25 Pulled bridge plug. Ran in with 2-7/8", 6.5# N-80 EUE tubing, testing to 4000 psi. Latched into packer and pulled 20,000 lbs over. Tested to 1500 psi (o.k.). Spaced out and landed tubing with 10,000 lbs on packer. Installed back pressure valve. Removed BOPE and installed xmas tree.

10-26 Tested xmas tree to 5000 psi. Using wireline, opened sliding sleeve. Circulated 76 pcf fluid out of well with 63 pcf 2% inhibited KCl water. Released rig.

FORM 103

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Southern California Gas Company FIELD Aliso Canyon

Well No. I. W. #63, Sec. 34, T. 3N, R. 16W, S.B. B. & M.

Date December 9, 1977 Signed P. S. Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, Ca., 90051 (213) 689-3561 Agent

(Address) (Telephone Number) Title (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
11-13-76	Pumped 83-1/2# mud 39-40 viscosity in well. Used displacement + 20 barrels to receive fluid to surface in casing. Started pumping at 8:00 A.M finished at 3:30 P.M. Mud returns were 74# (in tank 79#).
11-14-76	Mixed 400 barrels of 82-1/2# in Baker tank. Started pumping at 7:00 A.M. Added 140 barrels of 86# per cu.ft. water to Baker tank. Received 81-1/2# returns at 1:25 P.M. Circulated until 2:00 P.M. Returns 81-1/2#.
7-8-77	Moving CPS D-6 rig from Porter #26 to I.W. #63.
7-9-77	Finished moving California Production Service Rig #D-6 from Porter #26 to I.W. #63 and rigged up. Associated Services tested primary casing seal in casing head and seal flange to 3500 psi.
7-10-77	Finished rigging up. Rigged up choke manifold and circulated out old hole fluid with new polymer 86# drilling fluid. Set in B.O.P.E. and flanged up.
7-11-77	Using H. & H. test pump, tested pipe and blind rams to 4000 psi with water and Hydril bag to 3000 psi. Using NOWSCO Services, tested pipe and blind rams to 4000 psi with nitrogen and Hydril bag to 3000 psi. After testing with nitrogen, opened Hydril and found bag rubber damaged. Changed Hydril rubber and re-tested with water. Attempted to unlatch tubing from Retrieva-"D" packer.
7-12-77	Ran McCullough freepoint and collar locator. Ran 2 1/8" cutter - made chemical cut at 7942'. Pulled and laid down 207 joints seal lock tubing, 18 joints 2 7/8" J-55, and cut off, Baker Model "L" sliding sleeve, Baker Model "F" nipple. Picked up 2 7/8" drill pipe.
7-13-77	Finished pickingup 2 7/8" drill pipe. Pulled out of well. Made up Midway 7 5/8" O.D. x 4 1/8" I.D. mill shoe. Ran in well and milled over Baker C-1 safety system at 7063' to remove shield from bottom of safety system.

7-14-77 Milled over Baker C-1 safety valve to 7070' with 7 5/8" O.D. x 4 1/8" I.D. mill. Pulled out of well. Ran in with 5 7/16" O.D. x 4 3/4" mill shoe. Milled over 7065'. Pulled out of well. Ran back in with 7 5/8" O.D. x 4 1/8" O.D. mill shoe. Milling over C-1 safety valve.

7-15-77 Finished pulling out of hole. Recovered 14.85' of 2 7/8" tubing from cut-off joint above C-1 safety valve. Ran back in well with 7 5/8" O.D. x 4 1/8" I.D. mill shoe. Milled over down to 7067'. Pulled out of well. Ran back in with new mill shoe.

7-16-77 Milling over C-1 safety valve to 7068'. Pulled out of well - left 2" x 3 1/4" piece of mill shoe in well. Ran back in well with new 7 5/8" O.D. x 4 1/8" mill, attempted to mill over C-1 safety valve - unable to rotate.

7-17-77 Pulled out of well. Ran in well with 5 5/8" O.D. Bowen overshot with 3 5/8" grapple. Ran down to 7068', pulled out of well. No indication of anything inside overshot.

7-18-77 Ran in well with 7 5/8" Servco concave mill and two 6 5/8" junk subs. Milled on junk from 7066' to 7070', pulled out of well. Both junk subs were full of small pieces of iron junk. Ran back in well with 5 1/2" O.D. x 4 3/8" I.D. mill shoe and located junk at 7069'. Milled to 7071', but could not mill any deeper and mill shoe was badly worn.

7-19-77 Pulled out of well with 5 1/2" O.D. x 4 3/8" mill shoe. Ran back in well with 7 5/8" Servco concave mill and two junk subs. Located junk at 7070' and milled on junk to 7072'. Pulled out of well, recovered several pieces of junk. Mill indicated it was on top of 6 5/8" liner hanger. Running in well with Midway 5 5/8" surge tool to recover iron junk.

7-20-77 Finished running in well, with Midway 5 5/8" surge tools. Dropped knock out bar. Pulled out of well. Recovered 10 gallons of small steel cuttings. Reran surge tool. Pulled out of well. Recovered 3 small pieces of junk. Ran back in well with 5 1/2" washover shoe and joint of washover pipe. Washed over tubing fish from 7072' to 7093' top of Retrieva "D" packer. Circulated well clean. Pulling out of well.

7-21-77 Finished pulling out of well, with wash, pipe, ran in well with Baash Ross Socket with 2 7/8" slips. Worked over tubing fish at 7072', slips did not hole. Pulled out of well, changed slips in socket, ran back in, latched onto fish, jarred fish loose, pulled out of well. Recovered 25.55' 2 7/8" tubing and seal assembly, total 37.79'. Ran back in well with Baker packer retrieving tool.

7-22-77 Finished running in well, with Baker Retrieving tool. Pulled out of well but did not recover packer. Ran in well with 4 1/2 casing spear. Pulled out of well with no recovery. Ran back in well with 2 3/8 tubing stinger and cleaned out inside packer down to 7105'. Pulled out of well. Ran back in well with packer retrieving tool.

7-23-77 Worked Baker packer retrieving tool into packer. Pulled out of well. Recovered top sub from packer mandrel. Ran back in well with Midway 4" latch spear - worked down to 7099'. Pulled out of well. . . no recovery. Ran back in well with Baker packer retrieving tool with mill shoe. Pulling out of well.

7-24-77 Finished pulling out of well with Baker packer retrieving tool with no recovery. Ran back in well with Midway 3 1/4" spear. Pulled out of well with no recovery. Ran back in well with Servco 5 5/8" x 3" pilot mill. Milled on packer from 7095'.

7-25-77 Continue milling on Retrieva "D" packer. Milled to 7098'. Pulled out Servco pilot mill. Ran in with Midway spear - attempted to work spear in Retrieva "D" packer - unable to take a hold of packer. Pulled out. Ran in with Servco 5 11/16" pilot mill and milled to 7099'.

7-26-77 Milled on Baker Retrieva "D" packer with Servco 5 21/32" pilot mill to 7101'. Pulled out and changed mill. Picked up four 4 1/16" drill collars. Ran in and milled with #5 pilot mill.

7-27-77 Continued milling with #5 Servco 5 21/32" pilot mill on Baker Retrieva-"D" packer at 7101'. Unable to mill. Pulled out. Ran in with 12' 3 1/8" O.D. drill collar with 3 1/8" mill shoe on jars and bumper sub + 4 1/16" drill collars. Cleaned out inside of packer and port subs to 7106'. Unable to clean out any deeper. Pulled out and recovered 13.50' of Retrieva-"D" packer assembly + port subs, including X-over sub and inside mandrel of shear-out safety joint - to of fish at 7112'.

7-28-77 Picked up and ran in with 251' of 5" wash pipe and 5 7/16" shoe. Washed over 2 3/8" wire-wrapped liner from 7112' to 7268'. Unable to wash deeper. Pulled out. Ran in with same set-up with 5 3/8" shoe, washed over fish from 7112' to 7262' - would not wash any deeper.

7-29-77 Pulled out 5" wash pipe - ran in hole with 4 11/16" outside cutter in 6 5/8" liner. Pulled out and recovered 133.55' of 2 3/8" blank and wire wrapped liner.
Fish details: 2.80' shear out safety
30.26' tell tale
31.26' blank
16.44' (4 pups - blank)
31.34' wire wrapped
21.45 wire wrapped cut off
133.55' TOTAL
Laid down fish and 5" wash pipe. Ran in hole with 5 5/8" junk mill and located top of fish stub at 7248' Circulated bottoms up. Pulled out of hole.

7-30-77 Ran in hole with Servco 7 5/8" x 5 5/8" pilot mill and milled 8 5/8" x 6 5/8" Burns liner hanger and 6 5/8" cemented liner from 7072' to 7092' - 21 hours - 20'.

7-31-77 Coninued milled 6 5/8" cemented liner with Servco 7 5/8" x 5 5/8" pilot mill from 7092' to 7099'. Pulled out, changed mills, picked up two 4 1/4" drill collars. Ran in with #2 mill. Milled from 7099' to 7101'. Six hours down Time repairing mud pump.

8-1-77 Milled 6 5/8" liner from 7101' with Servco 7 5/8" x 5 5/8" pilot mill.

8-2-77 Pulled out of well and cleaned out junk subs which were full of small steel cuttings. Changed mills and ran in well. Reamed from 7099' to 7123' and milled 6 5/8" liner from 7123' to 7143'.

8-3-77 Milled 6 5/8" liner from 7143' to 7164'.

8-4-77 Milled 6 5/8" liner to 7166' - drill pipe twisted off. Pulled out of well. Top of fish at 1413'. Made up 5 3/4" Bowen overshot with 4" grapple. Ran in and latched on to fish. Pulled out to twist off and laid down same. Finished pulling out of well and cleaned out junk sub which was full of small steel cuttings. Ran in well to 2115'. Changed out transmission on rig. Finished running in well and milled 6 5/8" liner from 7166' to 7169'.

8-5-77 Pulled out of well. Ran back in well with 5 5/8" Servco concave mill. Worked into 6 5/8" liner at 7174' and pushed junk to 7215'. Milled and cleaned out to 7248', top 2 3/8" wire wrapped liner. Circulated hole clean and pulled out of well.

8-6-77 Finished pulling out of well with 5 5/8" concave mill. Ran back in well with new Servco 7 5/8" pilot mill. Milled 6 5/8" liner from 7174' to 7189'. Cross head broke D-500 in D-500 mud pump. Pulled 10 stands and secured well.

8-7-77 Rigged down for mud pump repairs - 20 hours. Ran in 10 stands back to bottom. Milled 6 5/8" liner from 7189' to 7192'.

8-8-77 Milled 6 5/8" liner from 7192' to 7195' - drill pipe torqued up while milling. Kelly bushing bumped out of rotary table and drill pipe backed off at 792'. Ran in well with 5 3/4" Bowen overshot with 4" grapple and latched on to fish. Pulled to 60,000#, dropped off to 30,000#. Pulled out of well. Drill pipe pulled out of box at 1846'. Ran back in well with overshot - could not get over fish because box on drill pipe swelled out to 5 7/16". Pulled out and ran back in well with two 4 1/8" drill collars and 7 5/8" concave mill. Milled up tool joint.

8-9-77 Milled tool joint on drill pipe from 1846' to 1848'. Pulled out of well. Ran in well with 5 3/4" Bowen overshot with 2 7/8" grapple, latched onto fish at 1848'. Pulled to 130,000#, fish pulled free. Pulled out of well. Ran back in well with 7 5/8" x 5 5/8" Servco pilot mill, checked each joint while running in well. Replaced 46 bad joints of drill pipe.

8-10-77 Milled 6 5/8" liner from 7195' to 7197'. Pulled out of well. Ran back in well with new 7 5/8" x 5 5/8" Servco pilot mill. Milled 6 5/8" liner from 7197' to 7204'.

8-11-77 Milled 6 5/8" liner from 7204' to 7232'. While working drill pipe pulled to 140,000# and drill pipe parted. Pulled out of well and left 23-1/2 stands in well plus 255' of drill collars and tools with top of fish at 5522'.

8-12-77 Ran in well with 5 3/4" Bowen overshot with 6 5/8" guide and 4" grapple. Worked over top of fish. Pulled to 130,000# and overshot slipped off. Pulled out of well and ran back in with overshot with 3 7/8" grapple. Worked over fish and pulled up to 100,000# but overshot slipped off of fish. Pulled out of well. Ran back in well with 7 5/8" concave mill 60' of 4 1/8" drill collars. Milled up tool joint from 5522' to 5524' pulling out of well, laying down 2 7/8" drill pipe.

8-13-77 Finished laying down 2 7/8" drill pipe. Made up 5 3/4" Bowen overshot with 2 7/8" grapple, bumper, jars and 60' of 4 1/8" drill collars. Measured and picked up new string of 2 7/8" drill pipe and latched onto fish at 5524' - pulled to 150,000# - tripped jars twice and fish came free. Pulled out.

8-14-77 Finished pulling out of well. Laid down 2 7/8" drill pipe (46 joints). Ran back in well with 5 5/8" Servco concave mill, located top of 6 5/8" stub at 7232' and cleaned out to top of 2 3/8" liner stub at 7248'. Pulled out of well and ran back in well with new 7 5/8" x 5 5/8" Servco mill. Milled 6 5/8" liner from 7232' to 7238'.

8-15-77 Milled 6 5/8" liner from 7238' to 7245' and pulled out of well. Ran back in well with Tristate 9" x 7 1/2" hole opener. Opened 7 5/8" hole to 9" from 7190' to 7243'. Pulling out of well with hole opener.

8-16-77 Ran in well with open end drill pipe to 7240' and pumped in 40 cu.ft. water, followed by 75 sacks of Class "G" cement mixed with 20% sand for a total of 96 cu.ft. slurry. Displaced with 10 cu.ft. water and 141 cu.ft. hole fluid to equalize cement. Pulled up to 6604' and down squeezed 46 cu.ft. cement. Cement in place at 9:00 A.M. Ran back in well and located top of cement at 7102'. Pulled out of well. Ran back in well with 7 5/8" bit and 8 5/8" casing scraper. Drilled out cement from 7102' to 7170' and circulated hole clean.

8-17-77 Finished circulating well clean. Pulled out of well. Ran GO-International perforating gun - gun stopped at 7129'. Ran back in well with bit and scraper, located fill at 7140' and cleaned out to 7170'. Drilled out cement from 7170' to 7175'. Circulated well clean. Pulled up to 6185' - waited one hour, ran back in, located fill at 7158'. Pulled out of well. Ran back in well with open-end drill pipe, located fill at 7150' and cleaned out to 7175'. Reverse circulated well clean. Pulled up to 6624' - waited one hour to check for fill.

8-18-77 Ran back in well to 7175' - found no fill, pulled out of well. Ran GO International and jet perforated four 1/2" holes at 7150'-7151'. Ran and set Baker Model "C" fullbore at 6995'. Obtained breakdown at 8 cu. ft. per minute under 2200 psi. Pumped 20 cu.ft. water ahead and 114 cu.ft. Class "G" cement. Displaced cement through holes at 7150' with maximum pressure of 2500 psi at 8 cu.ft. per minute. Holes cleared at 10:40 A.M. Obtained breakdown at 12 cu.ft. per minute under 3200 psi. Pumped 20 cu.ft. water ahead followed by 114 cu.ft. Class "G" cement. Displaced cement through holes at 7150', cleared tool and displaced at rate of 4 cu.ft. per minute under 2400 psi. Final displacement at 1400 psi min. 1 cu. ft. per minute. Cleared holes at 4:30 P.M. Used Halliburton cementing equipment.

8-19-77 Using Halliburton cementing equipment obtained breakdown at 3 cu.ft. per minute under 3200 psi. Pumped 20 cu.ft. water ahead followed by 57 cu.ft. Class "G" cement slurry, followed by 10 cu.ft. water and 56 cu.ft. hole fluid. Closed tool, pump 42 cu.ft. hole fluid. Pressure built up to 4000 psi. Attempted to back scuttle. Release tool, pull out of well. Found 75 joints of 2 7/8" drill pipe full of cement. Ran Back in well with 7 5/8" bit and 8 5/8" casing scraper. Located cement at 6997'. Drilled out cement from 6997' to 7160' (hard cement) and cement stringers from 7160' to 7175'. Circulated well clean.

8-20-77 Circulated well clean. Pulled out of well. Ran in well with open-end drill pipe to 7174' and reverse circulated well clean. Pulled out of well. Ran back in well with Baker Model "C" fullbore and set at 6995'. Using Halliburton cementing equipment, obtained breakdown at 5 cu.ft./ minute under 3100 psi. Pumped 40 cu.ft. water ahead, followed by 114 cu.ft. Class "G" cement slurry, followed by 10 cu.ft. water and closed tool. Displaced 106 cu.ft. cement through holes at 7150' with final pressure at 3400 psi. Cement in place at 4:30 P.M. Pulled out of well. Running back in well with bit and casing scraper.

8-21-77 Finished running in well with bit and casing scraper. Drilled out cement from 7095' to 7153'. Pulled out of well. Ran back in well with open-end drill pipe to 7174'. Reverse circulated well clean. Pulled out of well. Using McCullough Wireline Services, shot four 1/2" holes at 7149' to 7148'. Ran Lynes WSO Tester. Set packer at 7090' with tail at 7109'. Opened tool at 9:09 A.M. Gas to surface in three minutes with strong flow. Shut in valve at surface after 10 minutes.

8-22-77 Pulled out Lynes WSO Tester. Had 620' rise of formation fluid in 2 7/8" drill pipe. Charts O.K. 2800 psi shut in pressure WNSO by Co. Ran Baker full bore squeeze tool and set at 6995'. Formation took fluid through WSO holes at 7148' - 7150' at 14 cu.ft. per minute at 2100 psi. Bled down to 600 psi. Mixed and squeezed holes with 200 sacks of class G cement and cleared holes by 30 cu.ft. polymer fluid at 4 ½ cu.ft. per minute at 3750 psi. Bled down to 2200 psi. Cement in place at 1:30 A.M. After 3 hours, formation took fluid rate at 3 ½ cu.ft. per min. at 3750 psi. Bled down to 2900 psi. Mixed and pumped 50 sacks of Class G cement. Closed on 30 cu.ft. fresh water. Thus squeezed 21 cu.ft. cement through squeeze tool with 4500 psi final pressure. Cement 37 cu.ft. from WSO holes. Back scuttled out 37 cu.ft. cement. Left 21 cu.ft. cement in casing. Believed holes plugged. Pulled out squeeze tool. Ran in with 7 5/8" bit and 8 5/8" casing scraper and drilled out cement from 7003' - 7062'. Drilled hard cement from 7074' to 7122'. Unable to make hole past 7122'.

8-23-77 Pulled out 7 5/8" bit and 8 5/8" casing scraper. Ran in hole with 6 3/4" Reed bit and attempted to drill out cement. Unable to clean out below 7122'. Believed to have had casing at 7122'. Pulled out and ran in 4 5/8" bit and drilled out cement from 7122' to 7175'. Pulled out of hole. Made up Servco 5 1/2" tapered mill.

8-24-77 Ran in hole with Servco 5 1/2" tapered mill and milled bad pipe from 7122' to 7125'. Cleaned out to 7175'. Pulled out of hole and ran in with 7 1/2" Servco tapered mill and milled bad 8 5/8" casing from 7121' to 7126'. Drilled out cement from 7126' to 7151'. Circulated at 7175'. Pulled out 7 1/2" Servco tapered mill. Ran in with 7 5/8" bit to 7121'.

8-25-77 Ran 7 5/8" bit and circulated at 7175'. Pulled out and ran open-end drill pipe to 7175'. Mixed and equalized 50 sacks of Class "G" cement. Pulled up 300' - attempted to squeeze cement with 2200 psi - unable to squeeze - pulled out. Ran in with 7 5/8" bit and 8 5/8" casing scraper. Drilled out firm cement from 7053' to 7100'. Circulated hole clean. Pulled out.

8-26-77 Ran in with McCullough jet gun. Found 14' of fill - pulled out. Ran in open end drill pipe to 7086'. Circulated and back scuttled out cement to 7100'. Pulled out. Reran McCullough jet gun. Shot four 1/2" holes at 7074'. Pulled out and found gun misfired. Reran gun and shot four 1/2" jet holes at 7074'. Ran and set Baker fullbore squeeze tool at 6962'. Obtained breakdown at 7 cu.ft. per minute at 2500 psi. Bled down to 1000 psi in 1 minute. Mixed and squeezed 150 sacks of Class G Cement, thus squeezed 135 sacks through holes at 7074' with 2500 psi, final press. Unable to hole back-up press an annulus while squeezing. Cement in place at 11 A.M. Pulled out squeeze tool. Ran in hole with Baker full bore squeeze tool and tested 8 5/8" casing and found slow leak between 2344' to 2375'. Pulled out. Ran in with Baker model "B" retrievable Lok-Set bridge plug and set at 2551'.

8-27-77 Equalized 5 sacks of sand on top of Baker Lok-Set bridge plug. Using open-end pipe hung at 2490', mixed and equalized 75 sacks of Class "G" cement. Pulled up to 2040'. Closed rams and attempted to squeeze with 2000 psi. Squeezed 1 cu.ft. away. Held pressure for four hours. Pulled out. Ran in with 7 5/8" bit and 8 5/8" casing scraper, located cement at 2227'. Drilled out cement to 2410' and circulated at 2500'. Closed pipe rams. Pressure tested 8 5/8" casing from 2500' to surface with 1500 psi for one hour. Pulled out. Ran in Baker retrieving tool. Circulated out sand and latched onto Baker Lok-Set bridge plug and pulled out. Ran in with 7 5/8" bit and casing scraper and located cement at 6967'. Drilled out cement from 6967' to 6990'.

8-28-77 Continued drilling cement from 6990' to 7100'. Circulated and conditioned brine polymer drilling fluid raising weight to 85#/cu.ft. Pulled out and ran in open-end drill pipe. Circulated and back-scuttled hole clean. Pulled out. Ran McCullough jet gun and shot four 1/2" holes at 7072' to 7073'. Ran in with Baker fullbore squeeze tool. Set tool at 6930' and holes broke down at 1600 psi - pumped 6 cu.ft. per minute at 2000 psi.

8-29-77 Mixed and pumped 100 sacks of Class "G" cement. Squeezed 88 sacks through holes at 7072' - 7073' with 1700 psi to 3500 psi final pressure - held 3500 psi for 20 minutes. Pulled out of well. Ran back in well with 7 5/8" bit 8 5/8" casing scraper to 6856'. Stoppped and cleaned suction pits. Continued running in well and located top of cement at 6924'. Drilled out cement from 6924' to 7080' and cleaned out to 7100'. Pulled out of well.

8-30-77 Ran in well with open-end drill pipe. Located fill at 7094'. Cleaned out to 7100' Reverse circulated well clean. Pulled out of well. Ran GO-International perforating gun - jet perforated four 1/2" holes at 7071' to 7070'. Ran in well with fullbore and set at 6995'. Tested holes with 2000 psi, bled off 600 psi in one minute. Set fullbore at 6930' and obtained breakdown at 6 cu.ft./minute under 2500 psi. Pumped 40 cu.ft. water ahead, 100 sacks of "G" cement with 1/10 of 1% Halad 9. Displaced with 10 cu.ft. water plus 176 cu.ft. well fluid. Squeezed 106 cu.ft. slurry through holes at 7071' to 7070' with final pressure of 3500 psi. Cement in place at 2:30 P.M. Held pressure for 7 hours. Released tool. Pulling out of well.

8-31-77 Finished pulling out of well. Ran back in well with 7 5/8" bit and 8 5/8" casing scraper to 6729'. Waited on cement. Continued on in well and located top of cement at 7010'. Drilled out hard cement from 7010' to 7048', soft cement from 7048' to 7100'. Pulled out of well. Ran back in well with open drill pipe to 7100'. Reverse circulated well clean. Pulled out of well. Ran GO-International perforating gun and jet perforated four 1/2" holes from 7069' to 7068'.

9-1-77 Ran in well with Lynes WSO test tools and set packer at 7003' with tail to 7024'. Opened tool and had faint blow for one hour test. Pulled packer loose and pulled out of well. Recovered 65' of drilling fluid. Ran in well with Baker fullbore and set at 6990'. Pressure tested WSO holes at 7068' - 7069' with 2000 psi and bled off to 600 psi for one minute. Pulled out of well and ran back in with Baker Model "K" drillable retainer. Set retainer at 7050'. Obtained breakdown at 6 cu.ft/minute under 2800 psi. Pumped 80 cu.ft. fresh water ahead, followed by 100 sacks of Class "G" cement with 3/4 of 1% CFR2. Slurry weight 131#/cu.ft. Squeezed 90 sacks through holes at 7069' - with final pressure of 3300 psi. Cement in place at 6:00 P.M.

9-2-77 Ran in well with 7 5/8" bit and junk sub to 7013'. Waited on cement. Drilled out model "K" retainer at 7050' and hard cement to 7078'. Cleaned out to 7100'. Pulled out of well. Ran back in with open-end drill pipe and reversed circulated well clean. Pulled out of well.

9-3-77 Ran GO International perforating gun, jet perforated 4 1/2" holes at 7067'. Ran in well with Lynes WSO test tools set packer at 7009' tail 7030'. Opened tool and had faint blow for 1 hour test. Pulled packer loose and pulled out of well. Recovered 65' of drilling fluid, WSO by Co. Ran in well with Baker full bore and set at 6990'. Pressure tested W.S.O. holes at 7067' to 7066' with 2000 psi. Bled down to 1825 psi in 2 minutes. Pulled out of well and ran back in well with Baker model "K" drillable retainer. Set retainer at 7049' and obtained breakdown at 4 1/2 cu.ft. per minute under 2900 psi. Pumped 80 cu. ft. fresh water ahead, followed by 100 sacks class "G" cement with 3/4 of 1% CFR 2 w/slurry weight 131# cu.ft. Squeezed 93 sacks through holes at 7067' - 7066' with final pressure of 3500 psi. Cement in place 6:00 P.M. Pulled out of well.

9-4-77 Made up 7 5/8" bit & junk sub. Broke pin on cross over sub 3 ½ Reg. pin x 4 1/2 Reg box. Ran in well, located top of cement at 7045'. Circulated bottoms up. Pulled up to 6890'. Secured well.

9-5-77 (Holiday) Rig and crew idle.

9-6-77 Drilled out cement and Baker Model "K" drillable retainer at 7045' to 7082'. Cleaned out to 7100'. Pulled out of well. Ran back in well with open drill pipe to 7100' and reverse circulated well clean. Pulled out of well. Running in well with GO-International perforating gun.

9-7-77 GO-International shot four 1/2" holes from 7064' to 7065'. Ran Baker Model "C" fullbore and set tool at 6995'. Pressure tested holes under 2000 psi and bled off to 1500 psi in 30 minutes. Pulled out of well. Ran and set Model "K" drillable retainer at 7044'-7046'. Attempted to obtain breakdown, but had communication to annulus. Pressure increased from 1500 psi to 2600 psi. Pulled out of well with stab-in assembly. Ran back in well with Model "C" fullbore. Fullbore stopped at 7026'. Pulled up to 6992', set tool - had communication under 1200 psi. Pulled to 6928' - had communication under 100 psi. Pulled to 6896'- had communication under 100 psi. Pulled to 6865' - held pressure at 1500 psi. Pulled out of well.

9-8-77 Finished pulling out of well. Ran back in with 7 5/8" Servco tapered mill. Located tight spot from 6930' to 6937' and 7026' to 7028'. Cleaned out to 7044' - top of Model "K" retainer. Pulled out of well. Made up 538.79' of 2 7/8" tubing stinger below Baker fullbore. Ran in well with stinger at 7040' and fullbore at 6505'. Pumped 20 cu.ft. water ahead, followed by 100 sacks of Class "G" cement at 114 cu.ft. slurry, followed by 10 cu.ft. water and followed by 138 cu.ft. well fluid. Displaced to equalization point. Pulled up to 5846' with fullbore with tail at 6385. Attempted to down squeeze. Unset tool. Unable to circulate or back scuttle. Pulling out of well. Pulled from 90,000# to 145,000#. Swabbing well. Pulled to 6007' and came free. Circulated well. Pulled out of well. Rubber on fullbore damaged - had been dragging.

9-9-77 Ran in well with 7 5/8" bit and 8 5/8" casing scraper. Located top of cement at 6817'. Drilled out hard cement to top of model "K" retainer at 7044'. Pulled out of well. Ran back in well with open-end drill pipe. Reversed circulated well clean. Changed well fluid over to new 86#/cu.ft. brine polymer drilling fluid and cleaned mud pits. Pulled out of well.

9-10-77 Finished cleaning circulating pit. Ran back in well with 7 5/8" bit, 8 5/8" casing scraper, 240' of 4 1/8" drill collars and bumper sub. Drilled out Model "K" retainer at 7044' and hard cement from 7100' to 7156'. Bearing went out on rotary drive. Pulling out of well, stuck casing scraper at 7121-7126' at bad spot in casing. Worked free. Continued pulling out of well.

9-11-77 Finished pulling out of well. Laid down 8 5/8" casing scraper. Ran back in well with new 7 5/8" bit to 6917'. Repaired rig. Drilled out hard cement from 7156' to 7175'. Pulled out of well. Ran back in well with open-end drill pipe to 7175'. Reversed circulated well clean and pulled out of well. Rigged up McCullough 8 5/8" lubricator.

9-12-77 Ran McCullough Cement Bond Log... ran Casing Inspection Log... ran Sound Log from 7160' to 6500'. Ran Casing Caliper Log.

9-13-77 Finished running McCullough internal Casing Caliper Log. Ran in well with open-end drill pipe to 7175'. Using Halliburton Services, pumped 20 cu.ft. fresh water ahead followed by 110 sacks of Class "G" cement, displaced with 3 cu.ft. water plus 145 cu.ft. of well fluid. Pulled up to 6666' and reverse circulated drill pipe clean. Unable to squeeze cement away under 1000 psi. Standing cemented for five hours. Located top of cement at 6920'. Tested casing under 1000 psi for 20 minutes. Pulled out of well and measured in well with 7 5/8" bit plus 240' of 4 1/8" drill collars.

9-14-77 Continued running in well. Located top of cement at 6920' and drilled out hard cement from 6920' to 7190'. Pressure tested casing under 1000 psi for 20 minutes and bled down to 700 psi. Pulled out of well. Ran back in well with Servco taper mill (7 11/16"). Reamed through tight casing at 6462' to 6465', 7118' to 7126' and 7178' to 7190'. Pulled out of well.

9-15-77 Ran in well with Servco 7 11/16" taper mill and two 7 5/8" stabilizers. Reamed 8 5/8" casing from 7178' to 7190'. Circulated well clean. Pulled out of well. Ran back in well with open-end drill pipe to 7190' and reverse circulated well clean. Pulled out of well. Made up 282.53' of 7" 26# N-80 LT&C with turned down collars, including Burn's plain grooved hanger with four 3/4" holes and Baker float shoe - turned down.

9-16-77 Ran in well with 282.53' 26# N-80 casing. Circulated bottoms up. Landed 7" at 7187', top 7" at 6904'. Using Halliburton equipment, cemented with 20 cu.ft. fresh water ahead, plus 130 cu.ft. class "G" cement, displaced under 1000 to 1200 psi with 160 cu.ft. well fluid. Cement in place at 4:26 A.M. Pulled up to 6718' and reversed circulated drill pipe clean. Pulled out of well, ran back in well with 7 5/8" bit and 8 5/8" casing scraper. Located top of cement at 6778' and drilled out cement from 6778' to 6904'. Pulled out of well.

9-17-77 Ran back in well with open-end drill pipe, reverse circulated well clean. Pulled out of well. Rigged up McCullough lubricator. Ran cement Bond Log under 1000 psi. Ran McCullough perforating gun and jet perforated four 1/2" holes at 6885' to 6884'. Ran Baker Model "K" drillable retainer and set at 6861'. Using Halliburton equipment, pumped 140 cu.ft. of water treated with sodium Hexameta phosphate. Stabbed into Model "K" retainer and pumped 60 cu.ft. treated water. Obtained breakdown rate at 10.5 cu.ft. per minute under 2500 psi. Pumped 80 cu.ft. fresh water, followed by 171 cu.ft. Class "G" with 5% KCL, 0.3% HR7 and 0.75%CFR2, followed by 10 cu.ft. fresh water, followed by 142 cu.ft. of well fluid. Pressure fell to 1400 psi.

9-18-77 Pumped 10 cu.ft. fresh water ahead followed by 100 cu.ft. cement. Stabbed back into Model "K" retainer, followed by 71 cu.ft. of cement, followed by 10 cu.ft. fresh water, displaced with 141 cu.ft. of well fluid. Final pressure 2200 psi. Left 8 cu.ft. cement in 8 5/8" below Model "K" retainer. Pulled out of well. Ran back with 7 5/8" bit and 8 5/8" casing scraper to 6795'. Standing cemented. Drilled out Model "K" retainer at 7861' and cleaned out to 6904'. Circulated well clean. Pulling out of well.

9-19-77 Pulled out 7 5/8" bit and 8 5/8" casing scraper. Rigged up X-over flange and lubricator. Ran McCullough jet gun through lubricator and shot four 1/2" holes at 6882'-6883'. Laid down lubricator - made up and ran Lynes WSO tester on 2 7/8" drill pipe. Set packer at 6821' - tail to 6841' - open tester to surface at 7:40 A.M. for 1 hour test. Light blow decrease to zero after 15 minutes - dead next 10 minutes - then faint blow remainder of test. Pulled and recovered 125' rise of 85# polymer fluid in 2 7/8" drill pipe. Charts O.K. No plugging.

Inside Recorder	Top outside recorder	Bottom outside Recorder
IH 3880	IH 3880	IH 3880
FH 3880	FH 3880	FH 3880
IF-1-100	IF-1-90	IF-1-90
FF-1-100	FF-1-90	FF-1-90

Test O.K.'d by Gas Company Representatibe. Ran in hole with 6 1/8" bit and 7 5/8" casing scrpaer - drilled out cement from 6908' to 7107'.

9-20-77 Continued drilling out cement from 7107' to 7190'. Circulated hole clean. Pulled out. Rigged up and ran Triangle Noise Log from 7190'-5590' - which indicated gas still leaking by new WSO at 6883'. Closed blind rams and pressure tested 8 5/8" and 7" casing from 7190' to surface at 1000 psi. Pressure dropped from 1000 psi to 750 psi in 87 minutes. Ran in Baker Model "B" Lok-Set bridge plug and set in 7" casing at 6950'. Pulling out.

9-21-77 Pulled out of hole. Ran in hole with Baker fullbore squeeze tool. Set at 6830'. Pressure tested WSO holes at 6882-6883' with 1000 psi. Pressure dropped to 750 psi in 10 minutes. Pulled out. Ran in with Baker Model "K" cement retainer and set at 6831. Pumped and WSO holes took fluid at 8 cu.ft. per minute at 2500 psi and bled back to 1600 psi in 10 minutes. Mixed 50 sacks of Class "G" cement premixed with 0.75% CFR2 and 0.2% of HR7. Preceeded cement with 80 cu.ft. fresh water. Squeezed water and cement at 2 1/2 cu.ft. per minute at 2500 psi with 1500 psi on annulus. Squeezed 32 cu.ft. cement through holes with 2500 psi final pressure. Back scuttled out 8 cu.ft. cement. One hour mixing and squeezing. Cement in place at 7:30 P.M. Pulling out.

9-22-77 Pulled out Model "K" cement retainer setting tool. Ran in hole with 7 5/8" bit and 8 5/8" casing scraper. Circulated and conditioned polymer fluid at 6731'. Drilled out cement and Baker Model "K" retainer at 6831' and drilled out cement from 6831' to 6904'. Cir culated hole clean. Pulled out of hole.

9-23-77 Ran in hole with Baker full bore squeeze tool and set at 6851'. Pumped and tested WSO holes with 1000 psi - pressure increased to 1100 psi in 55 minutes, then dropped to 1000 psi in 10 minutes. Retested same with 1000 psi and dropped to 750 psi in 40 minutes. Pulled out of hole. Ran in Baker model K cement retainer and set at 6856'. Pumped and WSO holes at 6882' - 6883' took fluid rate at 6 cu.ft. per minutes at 2500 psi with 1500 psi on annulus. Mixed and pumped 50 sacks of class G cement + 1% latex. Preceeded cement with 40 cu.ft. fresh water and 5 cu.ft. behind thus squeezed 40 cu.ft. water and 35 cu.ft. cement through WSO holes with 2600 psi final pressure. Held 2500 psi for 3 minutes. Pulled out of model K retainer and back-scuttle out 32 cu.ft. cement. 30 minutes mixing and squeezing. Cement in place at 12:30 P.M. Pulled out of hole. Ran in hole with Baker full bore squeeze tool - set at 2570' - tested casing from 2570' to 6856' at 1500 psi - O.K. Test in 60' intervals up from 2570' at 1500 psi. Located leak between 1902' to 1933' - 1500 psi and drop to 1200 psi in 5 minutes - pulled out full bore squeeze tool.

9-24-77 Pulled out Baker fullbore squeeze tool Ran in with Baker Model "B" Lok-Set bridge plug and set at 2024'. Pulled out running tool. Ran in open-end drill pipe and spotted four sacks of sand above bridge plug. Pulled up to 1965'. Mixed and equalized 50 sacks of Class "G" cement premixed with 1% latex. Pulled up to 1700' - closed pipe rams. Then squeezed 1 cu.ft. at 2000 psi. Held 2000 psi for six hours. Bled off and pulled out. Ran in with 7 5/8" bit and 8 5/8" casing scraper and drilled out cement from 1785' to 1965'. Circulated hole clean at 2000'. Closed pipe rams. Pressure tested casing from 2024' to surface at 1600 psi for one hour. Casing leak between 1902'-1933' O.K. Pulled out of hole.

9-25-77 Ran in with Baker Model "B" retrieving tool. Latched onto Lok-Set bridge plug at 2024' and pulled out. Ran in hole with 7 5/8" bit and 8 5/8" casing scraper and drilled out Baker Model "K" cement retainer at 6851' and cement to 6890'. Circulated hole clean at 6904'. Pulled out of hole. Made up Baker fullbore squeeze tool and running in hole.

9-26-77 Ran in well with Baker Model "C" fullbore, set at 6834'. Pressure tested WSO holes at 6882'-6883' under 1200 psi for 60 minutes. Pulled out of well. Ran McCullough Cement Bond Log from 6904'-5200': Ran Noise Log from 6898' - 5000'. Ran in well with Baker retrieving tool and washed out sand above bridge plug. Latched onto bridge plug at 6940'. Worked bridge plug out of 7" and pulled out of well.

9-27-77 Finished pulling out of well with Bridge plug. Rigged up McCullough and ran Noise Log. Which stopped at 7070'. Ran in well with open-end drill pipe and located fill at 7170'. Cleaned out to 7190' and reversed circulated well clean. Pulled out of well, ran triangle Noise Log, logged from 7189' to 4000'. Log showed no gas leak behind casing. Ran in well with 6 1/8" bit, drill collars and drill pipe. Drilled out cement from 7090' to 7210'.

9-28-77 Circulated well clean. Displaced drilling fluid with new 86#/cu.ft. brine polymer drilling fluid. Cleaned suction pit and pulled out of well. Made up Dyna drill assembly. Ran in well, Dyna drilled 6 1/8" hole from 7210' to 7246', pulling out of well.

9-29-77 Finished pulling out of well. Layed down Dyna drill tools. Made up drilling assembly. Ran in well reamed from 7202' to 7246' and drilled 6 1/8" hole from 7246' to 7301'. Pulled out of well, changed bits, ran back in well. Reamed from 7259' to 7301', drilled 6 1/8" hole to 7302'.
Survey at 7247' 32° N 39E.

9-30-77 Pulled out of well, left 3 cones from 6 1/8" bit in hole. Ran back in well with 6" Globe junk basket and junk sub. Worked over junk at 7302'. Pulled out of well, no junk in junk basket. Recovered several small pieces of junk in junk sub. Ran back in well with Servco 6" junk mill and junk sub. Milled on junk from 7302' to 7303'. Pulled out of well and recovered several small pieces of junk in junk sub. Made up 6 1/8" drilling assembly. Running in well.

10-1-77 Finished running in well with 6 1/8" drilling assembly. Drilled 6 1/8" hole from 7302' to 7350'. Survey at 7350' 35° N 34° E. Made wiper trip tp to 7190'. Circulated well clean. Pulled out of well. Rigged up and ran Dresser Atlas Induction Log from 7350' to 7190'. 7350' V.D. 7053' 731' N 923' E.

10-2-77 Finished running Dresser Atlas Induction Log. Ran in well with Tri-State 6" x 13" hole opener with 240' x 4 1/8" drill collars, bumper sub. Opened 6 1/8" hole to 13" from 7190' to 7208'. Pulled out of well, changed hole opener. Ran back in well. Opened hole from 7208' to 7218' and tool failed to open. Pulled out of well. Changed hole opener. Ran back in well with hole opener #3. Opened hole from 6 1/8" to 13" from 7208' to 7228'.

10-3-77 Opened 6 1/8" hole to 13" from 7228' to 7245'. Pulled out of well and changed hole opener. Ran back in well with hole opener #4. Opened hole from 7245' to 7247'. Pulled out of well, left two cones from hole opener in well. Ran back in well with hole opener #5 and opened hole from 7247' to 7263' - 16' in 4 hours. Pulled out of well and changed hole opener. Ran in well with hole opener #6.

10-4-77 Finished running in well with hole opener #6. Unable to get hole opener through 7" hanger at 6900'. Pulled out of well. Ran back in well, with open end drill pipe with 45° on bottom and located fill at 7275'. Cleaned out to 7350'. Circulated well clean. Pulled out. Ran back in well with hole opener #7, open 6 1/8" hole to 13" from 7263' to 7288'.

10-5-77 Finished pulling out of well with hole opener #7. Ran back in well with hole opener #8 - opened 6 1/8" hole to 13" from 7288' to 7298'. Pulled out of well, ran back in well with hole opener #9 - unable to go through 7" hanger at 6904'. Pulled out of well. Ran back in well with hole opener #10 and opened hole from 7298' to 7299' - one foot in one hour. Pulling out of well.

10-6-77 Finished pulling out of well with hole opener #10. Ran back in well with hole opener #11 - unable to get inside 7" hanger at 6904'. Pulled out of well. Ran back in well with hole opener #12, opened 6 1/8" hole to 13" from 7299' to 7300'. Pulled out of well. Ran back in well with hole opener #13, opened hole from 7300' to 7301'.

10-7-77 Pulled out of well with Tri-State hole opener #13. Ran back in well with Servco 6" x 13" hole opener. Found shoulder at 7299', started opening hole. Drill pipe parted. Pulled out of well. Top of fish 6030'. Ran back in well with Servco 7 5/8" concave mill. Milled tool joint from 6030' to 6032'.

10-8-77 Pulled out of well with 7 5/8" Servco concave mill. Made up and ran in well with 5 3/4" Bowen overshot with 2 3/8" bumper sub and jars. Latched onto fish at 6032'. Jarred on fish with 150,000# and came free. Pulled up to shoe of 7" casing, but unable to close arms on hole opener. Ran back to bottom (7299'). Rigged up Dia-Log. Ran collar locator and string shot. Unable to torque pipe because hole opener kept turning. Pulled up to shoe of 7" casing with hole opener stuck in shoe. Backed off at 7000'. Pulled out of well and left hole opener and six 4 1/8" drill collars in well.

10-9-77 Ran drill pipe in well. Pulled out of well laying down damaged 2 7/8" drill pipe. Made up Midway screw in sub. bumper sub, bumper sub, jars, four 4 3/4" drill collars and accelerator. Measured and picked up 2 7/8" drill pipe. Screwed into top of fish at 7000'. Jarred on fish. Pulled up to shoe. Rotated against shoe to close arms on hole opener. Pulling out of well with fish.

10-10-77 Finished pulling out of well with fish.. Left cone and arm from Servco hole opener in hole. Ran back in well with drill pipe and chased junk from 7300' to 7350'. Circulated well clean. Pulled out of well. Ran back in well with Tri-State hole opener with hard-faced cones.

10-11-77 Finished running in well with Tri-State 6" x 12" hole opener with hard faced cones but unable to open any hole. Pulled out of well and left nose of hole opener in hole. Ran back in well with Servco 6" junk mill. Milled and pushed junk from 7302' to 7347'. Pulled out of well. Ran in well with Tri-State hole opener 6" x 12".

10-12-77 Finished running in well with Tri-State hole opener 6" x 12" - opened 6 1/8" hole to 12" from 7300' to 7310'. Pulled out of well. Ran back in well with Tri-State 6" x 13" hole opener and opened 6 1/8" hole to 13" from 7300' to 7315'. Pulled out of well.

10-13-77 Ran in well with Tri-State 6" x 13" hole opener. Opened 6 1/8" hole to 13" from 7315' to 7326' and pulled out of well. Changed hole opener. Ran back in well and opened hole from 7326' to 7339'. Pulled up to 7300'. Opened 12" hole to 13" from 7300' to 7308'. Pulled out of well.

10-14-77 Finished pulling out of well. Ran in well with 6 1/8" bit, cleaned out fill from 7330' to 7346' and circulated well clean. Pulled out of well. Ran back in well with Tri-State 6" x 13" hole opener and re-opened 13" hole from 7190' to 7339'.

10-15-77 Circulated well clean. Pulled out of well. Ran Dresser Atlas hole Caliper Log which showed hole opened to 13". Ran back in well with open-end drill pipe to 7343'. Displaced drilling fluid with new clean filtered 86#/cu.ft. brine=polymer completion fluid. Pulled up to 7000' and cleaned suction pits. Pulled out of well.

10-16-77 Finished pulling out of well. Rigged up and ran 331' 10-mesh wire-wrapped (5") liner. Landed liner at 7343' with hanger at 7012'. Tested lead seal with 1200 psi. Pulled out of well. Ran back in well with gravel packing tools and located port collar and opened same. Circulated for one hour before gravel packing. Using B. & W. gravel packing equipment, packed with 20-40 gravel under 500 psi at two barrels per minute - 63 cu.ft. in place.

10-17-77 Continued gravel packing 5" liner with 500 psi at 2 barrels per minute. Had displaced 122 cu.ft. of 20-40 gravel behind 5" liner when packed off. Closed port collar and backscuttled out 1 cu.ft. of gravel. Tested port collar at 1000 psi. 121 cu.ft. of gravel behind liner. Pulled out. Ran in with Burns washer on 2 3/8" tubing stinger. Located liner shoe at 7343'. Broke circulation and washed liner with four passes from 7341' to 7238'. Pulled out washing tool. Ran in with Burns gravel packing tool-opened port collar at 7016' and circulated.

10-18-77 Continued gravel packing with 20-40 gravel. Pumped in 4 cu.ft. of gravel pack-off. Back scuttled out 1 cu.ft. total gravel behind 5" liner 124 cu.ft. closed port collar. Tested at 1000 psi - O.K. Calculated volume 110 cu.ft. Pulled out gravel packing tool. Rigged up lubricator. Ran Dresser Atlas Photo Log from 7334' to 6850' in 5" liner. Removed lubricator. Ran in hole with Servco 7 11/16" tapered mill and two 7 5/8" stabalizer 4 1/16" drill collars on top of 7" casing at 6904'. Circulated and conditioned polymer fluid. Pulled out and rigged up lubricator.

10-19-77 Rigged up lubricator. Ran GO-International junk basket with feeler gauge to top of 7" innerstring at 6904'. Ran Otis 8 5/8" WC packer with 3 1/2" N-80 pup extension with Otis NO-GO nipple with XN plug in place below pup joint, and set top of packer J-latch mandrel at 6899'. Removed Lubricator. Ran in 2 7/8" drill pipe and laid down 220 joints of 2 7/8" drill pipe, six 4 1/4" drill collar, Kelly and 10 joints of 2 3/8" tubing. Ran in Baker Model "B" Lok-Set bridge plug and set at 180'. Dismantling rig. preparing to raise rig and base. Secured well at 10:00 P.M.

10-20-77 Started tour at 7:00 A.M. Removed sand line drum from rig. Lowered derrick. Removed sub-base and pipe rack. Installed cement pads for pipe rack. Shut crew down at 3:00 P.M. Rig on stand-by.

10-21-77 Moved rig and sub-base off. Removed B.O.P.E. Raised mats 15". Replaced rig and sub-base back over well.

10-22-77 Rig inoperative due to repairs. Set 10" 5000# casing landing spool and tested between secondary seal in new McEvoy casing head on 8 5/8" 36# K-55 casing and seal flange at 3700 psi for 30 minutes. Installed Class III 5000 psi B.O.P. and nippled up. Tested blind rams with water at 3100 psi for 30 minutes.

Off loaded 177 joints of 7" 26# casing on rack. General rig up. Secured well at 6:00 P.M.
(10-23-77) Rig and crew idle. C.P.S. will repair rig Sunday.

10-23-77 Rig and crew idle.

10-24-77 Started tour at 6:00 A.M. Rigged up and tested Hydril bag with water at 2700 psi for 25 minutes. Ran Baker Model "B" retrieving tool and recovered Baker Model "B" Lok-Set bridge plug at 180'. Rigged up R. & R. power tongs and Hydrotest for 7" 26# casing. Made up Otis overshot 3' cross-over on 7" casing. Picking up and running in hole and hydrotesting 7" 26# casing at 4000 psi.

10-25-77 Continued running 7" 26# N-80 8rd casing, hydrotesting at 4000 psi. Ran to top of Otis packer. Mixed 10 gallons of KIB-100 inhibitor in 100 barrels of polymer fluid and displaced between 8 5/8" and 7" annulus. Latched 7" casing on Otis mandrel above Otis packer at 6901' - set 50,000# on packer. Pumped down annulus between 8 5/8" and 7" with 1000 psi - held 1000 psi for 15 minutes - O.K. Unflanged B.O.P. Landed 7" casing on slips and pack-off. Cut off 7" casing and recovered 15.62' of 7" casing. Removed B.O.P. Installed 7" secondary seals - tubing head. Reinstalled B.O.P. 7" 26# N-80 168 joints = 6908' - Landed at 6901'.

10-26-77 Unable to get test on 7" casing slip seals. Installed B.O.P.E. Ran and set Baker Model "B" Lok-Set bridge plug at 172'. Attempted to test blind rams - pressured up to 1100 psi and casing parted. Circulated between 8 5/8" casing through 7" casing. Removed B.O.P.E. Ran in with Midway 7" spear. Pulled up to 80,000# - would not come free. Rigged up Alco hydraulic jacks - took ahold of 7" casing - pulled 90,000# and came free...pulled out. Pulled out 56' of 7" 26# casing parted at collar, leaving pin up. Rigged down jacks. Reinstalled B.O.P.E.

10-27-77 Continued nippling up Class III 5000 psi B.O.P. Ran and set Baker Model "B" Lok-Set bridge plug at 30' in 8 5/8" casing, tested blind rams with water at 2000 psi. Pulled 8 5/8" Baker bridge plug. Ran in retrieved 7" Baker bridge plug at 172'. Removed 10" bag. Rigged up Alco jacks on top of Shafer gate. Made up and ran Midway spear, tool took ahold of 7" casing at 75'. Worked in one and half around torque and worked pipe from 80,000# to 110,000#. Pulled up 7" casing with jacks and unjayed from Otis packer. Pulled and laid down one joint of 7" casing and collar. Picked up and ran 3 joints of 7" 26# N-80 8rd LT&C on 7" casing string. Hydrotested casing at 4000 psi. Landed casing on Otis packer. Closed rams. Tested Otis overshot seals, pumping down 8 5/8" and 7" casing at 1000 psi with rig pump. Held pressure for 15 minutes - O.K. Unflanged Shaffer gate.

10-28-77 Unflanged B.O.P. and raised up. Landed 7" 26# casing with 56,000# on Otis packer and balance on wellhead. Cut off 7" casing, installed secondary flange and tubing head. Tested seals at 5000 psi. Reinstalled Class III 5000 psi B.O.P. Tested blind rams and 2 7/8" pipe rams with water and nitrogen at 4000 psi for 20 minutes each. Tested Hydril bag at 3000 psi for 20 minutes. Installed 8 5/8"x 3" flange on bag for lubricator and secured well at 10:00 A.M.

10-29-77 Started tour at 6:00 A.M. Rigged up Archer-Reed wireline unit. Ran Otis retrieving plug catcher - unable to latch on "XN" plug at 6909'. Removed lubricator and flange. Ran in hole with 12' x 1 3/4" pipe on 2 7/8" tubing, measuring and picking up tubing. Tagged Otis "XN" plug at 6909'. Circulating.

10-30-77 Circulated hole clean. Pulled out. Ran in with Otis "XN" pulling tool on 1 3/4" hydraulic - had jars and bumper sub on 2 7/8" tubing. Attempted to latch on. Pulled out and found pin sheared. Rigged up Archer-Reed lubricator. Ran same, pulling set-up on wireline. Unable to latch on. Pulled out and left equalizing prong in "XN" plug. Ran impression block on wireline and located prong in "XN" plug. Ran 3/4" overshot on wireline. Unable to latch on. Ran overshot with 3/4" grapple - unable to get equalizing prong. Ran in hole with "XN" plug, retrieving tool on tubing.

10-31-77 Continued running in hole with Archer-Reed "XN" plug retrieving tool on 2 7/8" tubing. Latched on to plug and pulled out and recovered plug. Ran back in hole to top of Otis packer. Circulated out gas-cut mud. Pumped in 200 barrels of new 86#/cu.ft. brine-polymer drilling fluid from storage tank. Pulled out. Rigged up GO-International and lubricator. Ran 6" feeler gauge and junk catcher to 6899'. Ran Baker Retrieva-"D" packer and set at 6883'6899'. Made up Camco safety flow system on Baker seal units and latch-in sub. Running in and hydro-testing tubing at 5000 psi using Baker seal on couplings.

11-1-77 Continued running 2 7/8" - K-55 tubing and hydro-test at 5000 psi. Spaced out tubing string. Latched on to Baker Retrieva D packer. Pulled 20,000# over weight of string. Landed tubing string with Camco flow system at 6878' with 10,000# on packer. Tubing string weight 48,000#. Removed B.O.P. and installed Xmas tree. Tested between upper and lower tubing hanger seals. Tested upper tubing seals and Xmas tree at 5000 psi. O.K. Rigged up and circulated polymer fluid in well without lease salt water Archer-Reed ran Camco standing valve plug and set in Camco D nipple, tested Baker seals and Retrieva D packer at 1500 psi for 30 minutes. Blind flanged out lets on well head and tree. Finished well and released rig at 10:00 P.M. 11-1-77.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well MA 1B, Sec. 34, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-21892 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date August 28, 19 81

Signature P.S. Magruder

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

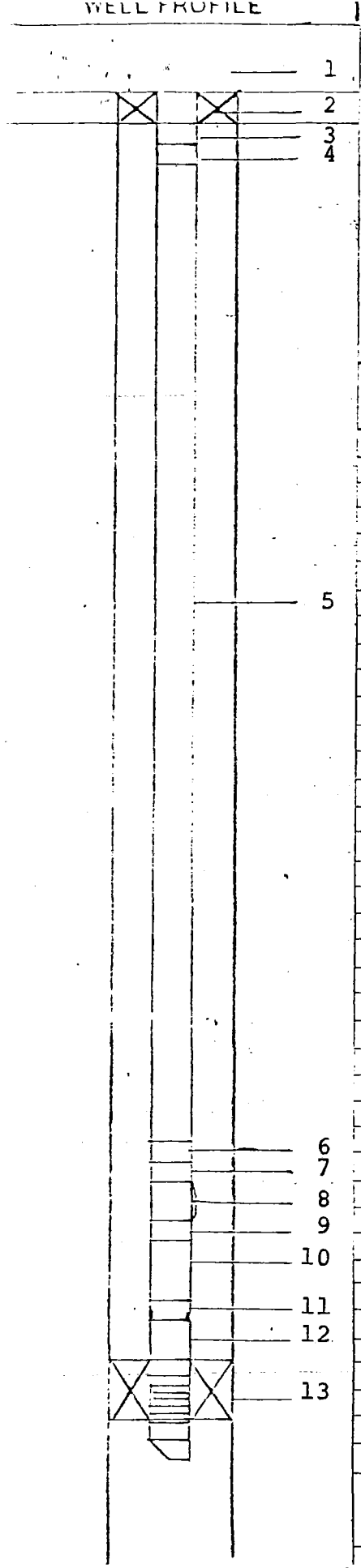
Date	
	MWO #99963 was issued to replace leaking casing patch.
1981	
8-14	1st Day. Moved CPS #D-4 on location. Rigged up equipment. Raised mast and rigged up to circulate.
8-15	2nd Day. Filled hole with 96 bbls drilling fluid. Circulated gas out of well. Removed xmas tree and installed BOPE. Division of Oil and Gas was notified, but did not witness test. Tested blind rams and manifold with 4000 psi of water. Tested pipe rams with 4000 psi for 20 minutes. Tested Hydril with 3000 psi for 20 minutes. Pulled 5 doubles and circulated bottoms up.
8-17	3rd Day. Finished pulling out of well. Picked up fishing tools and drill collars. Ran in well and recovered top seal from Pengo casing patch. Going in hole to fish for casing patch.
8-18	4th Day. Ran in hole with spear. Jarred casing patch free. Pulled patch into wellhead where it stuck. Using Alco jacks pulled patch. Layed down casing patch and tools. Ran in well with 7-5/8" bit and casing scraper, changed to chamfered collars. Stopped on bottom seal at 1545', could not knock free. Picked up Kelly.
8-19	5th Day. Pulled out of well. Ran in with 7-5/8" mill. Milled on bottom seal 1553' to 1556'. Pushed seal to 7190'. Circulated hole clean and started out of well.
8-20	6th Day. Pulled out of hole. Ran collar log and made up Pengo casing patch. Casing patch stopped at 30'. Pulled casing patch and layed down. Ran in hole, continued changing 3-1/2" chamfered collars.
8-21	7th Day. Finished changing to chamfered collars and pulled out of well. Ran 7.70" O.D. tapered mill. Milled 24' to 205' and from 1513' to 1669'. Circulated hole clean.

8-22 8th Day. Pulled mill and picked up 80' Pengo casing patch. Ran in well and set casing patch with top of 1540' and bottom 1622'. Pulled out of well. Made up seals and locator sub for Baker packer and started in well.

8-24 9th Day. Ran 3-1/2" tubing with locator and two seals and set 20,000# on packer. Closed pipe rams and pressure tested seals and packer to 1500 psi for 20 minutes. Ran 3-1/2" tubing hydrotesting to 5000 psi. Removed BOPE. Installed xmas tree.

8-25 10th Day. Tested xmas tree to 5000 psi. Circulated polymer fluid out of well with lease salt water. Released rig at 11:00 A.M. 8-25-81.

WELL PROFILE



OPERATOR So. Calif. Gas Co.

WELL # MA 1B

FIELD Aliso Canyon

COUNTY Los Angeles

STATE California

DATE August 28, 1981

☐ NEW COMPLETION ☐ WORKOVER

	CASIN	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE					
WEIGHT					
GRADE					
THREAD					
DEPTH					

ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	K.B.	21.00	
2.	Doughnut	.90	21.90
3.	Pup joint 3-1/2" EUE 8Rd	5.73	27.63
4.	Pup joint 3-1/2" EUE 8Rd	9.97	37.60
5.	232 joints tubing 3-1/2" EUE 8Rd	7103.94	7141.54
6.	Pup joint 3-1/2" EUE 8Rd	4.21	7145.75
7.	Otis "X" nipple 3-1/2" EUE 8Rd	1.33	7147.08
8.	Otis annular flow safety system	9.05	7156.13
9.	Pup joint 3-1/2" EUE 8Rd	2.42	7158.55
10.	Otis 20' heavy wall tubing 3-1/2" EUE 8Rd	20.21	7178.76
11.	Otis NO-GO nipple 3-1/2" EUE 8Rd, 2.562 I.D.	1.49	7180.25
12.	Otis 10' heavy wall tubing 3-1/2" EUE 8Rd	9.75	7190.24
13.	Baker Retrieva-D with production tube and seals landed in packer - Tubing tail	13.00	
	Bottom of tubing		7203.24
	Baker Retrieva-D packer set at 7190'		

Fil

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well MA 1-B, Sec. 34, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-21892 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date January 29, 1982

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99859 was issued to replace leaking casing patch.
1982	
1-05	1st Day. Using Halliburton pump truck, killed well with 81#/cu. ft. HEC polymer completion fluid. Rigged up.
1-06	2nd Day. Finished rigging up. Removed xmas tree and installed BOPE.
1-07	3rd Day. Using H&H pump tested 3-1/2" pipe rams and complete shut off rams at 4000 psi with water. Tested choke manifold at 4000 psi. Pressure tested Hydril bag at 3000 psi with water. Circulated gas from well. Measuring out of well.
1-08	4th Day. Rig and crew idle - high winds.
1-09	5th Day. Rig and crew idle - high winds.
1-11	6th Day. Finished measuring out of well. Layed down Otis and Baker equipment. Ran spear with drill collars, jars and bumper sub. Recovered top seal from casing patch. Recovered balance of casing patch. Milling on bottom seal.
1-12	7th Day. Pushed swedge to top of packer at 7190'. Circulated gas from well. Pulled out of well. Ran in and set Howco 8-5/8" 36# bridge plug at 1700'. Circulated 81#/cu. ft. polymer out of well with 63#/cu. ft. waste salt water. Capped plug with 10 sacks sand, top of sand at 1665'. Set Howco 8-5/8" 36# RTTS at 1415' but unable to obtain breakdown.
1-13	8th Day. Equalized 60 cu. ft. of 12% HCL 3% HF acid. Obtained breakdown of 8 cu. ft. per minute with 1200 psi through leak 1594'to 1596'. Squeezed with 50 sacks of Class "G" cement mixed with 0.75% CFR-2 at 1500 psi with 44 cu. ft. in place. Released Howco RTTS 8-5/8" 36# retrievable retainer. Pulled out of well. Made up bit and casing scraper on four 4-3/4" D.C Ran in well to 1200'.

OG103 (4-77-GSB1-10M)

1-14 9th Day. Drilled out cement. Pressure tested leak 1594'-1596' for 1 hour. Circulated salt water out of well with 81#/cu. ft. HEC polymer completion fluid. Recovered bridge plug. Ran 3-1/2" tubing with locator and two seals and set 20,000# on packer. Closed pipe rams and pressure tested seals and packer at 1000 psi. Pulled out of well. Ran collar locator. Ran special Pengo casing patch with double seal connections and extra long seals on top and bottom. Set patch with Gearhart from 1606'-1564'.

1-15 10th Day. Pulled out of well. Rigged up hydrotester. Made up production equipment. Ran 3-1/2" 8Rd EUE N-80 tubing drifting and hydrotesting at 5000 psi. Spaced out and landed tubing with 20,000# on packer. Set back pressure valve in doughnut. Removed BOPE and installed xmas tree. Pressure tested xmas tree at 5000 psi with oil for 20 minutes. Circulated polymer completion fluid out of well with waste salt water.

1-16 11th Day. Worked crew to separate rental tools.

1-18 12th Day. Loaded rig and moved from Mission Adrian 1-B in Aliso Canyon to CPS yard in Piru. Well finished 1-15-82, and rig released when returned to yard 1-18-82 afternoon.

SUBMIT IN DUPLICATE

J.P. Land's copy

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator So. California Gas Company Field Aliso Canyon County .....
Well MA 1-B , Sec. 34 , T 3N , R 16W S.B.B. & M.
A.P.I. No. 037-21892 Name J.P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date March 21, 1983 , 19 .....

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (213) 689-3561
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO#99994 was issued to repair shoe leak. GWO#98865 was issued to run 6-5/8" innerstring and tubing.
1982	
11-18	Using Dowell pump truck displaced gas from well with 250 bbls of 74#/cu.ft. polymer completion fluid. Moved SPS Rig #47 from Montebello to MA 1-B.
11-19	Started rigging up SPS Rig #47.
11-20	Finished rigging up over well. Installed 3" back pressure valve in doughnut. Removed xmas tree and installed 8" 5000 psi Class III BOPE and pressure tested with water as follows. Blind and pipe rams and choke manifold at 4000 psi for 20 minutes. Hydril at 3000 psi for 20 minutes. Mr. Rob Hauser with Division of Oil and Gas declined witnessing of the BOPE test.
11-22	Finished rigging up. Welded and installed 8" flow line. Released tubing from packer. Measured out of well.
11-23	Finished pulling out of well. Layed down Baker and Otis production equipment. Picked up Kelly. Made up Midway spear and tools. Picked up 4-3/4" drill collars and ran in well. Jarred top seal from patch loose and pulled out of well. Did not recover seal. Ran in spear into seal, pulled out of well and laying down seal. Changed spear with stop sub 38' up. Ran in and jarred patch loose.
11-24	Finished pulling out of well. Recovered 40' of casing patch. Layed down casing patch and tools. Made up and ran in well with 7-5/8" flat bottom mill. Milled bottom swedge and seal loose. Pushed to packer at 7190'. Circulated well clean. Pulled out of well. Recovered bottom seals on mill. Made up Baker packer retrieving tool and ran in well.

11-26 Finished running in well to 7190'. Latched into packer. Unable to release packer. Released from packer and pulled out of well. Replaced pins in Baker pulling tool. Ran in well. Latched into packer and jarred on packer for 5 hours. Released from packer. Pulling out of well.

11-27 Finished pulling out of well. Made up Baker seals and latch-in sub. Ran in well. Slipped and cut drilling line. Latched into packer and jarred on packer. Jarred loose from packer but unable to latch back into packer. Pulled out of well. Baker pulling tool parted leaving 1' of seals and slip in packer. Made up Midway 7-1/2" O.D. mill over shoe and ran in well.

11-29 Milled on Baker retrieva "D" packer at 7190' for 7 hours. Circulated well. Pulled out and installed new 7-1/2" x 6-1/4" mill shoe on milling assembly and started back in well.

11-30 Continued milling with 7-1/2" O.D. x 6-1/4" I.D. mill #2 for 13 hours. Circulated well and started out of well.

12-01 Finished pulling out with mill #2. Installed new 7-1/2" O.D. x 6-1/4" I.D. mill shoe #3 on milling assembly and milled for 1 hour. Tubing twisted off. Pulled out with 1240' of 3-1/2" tubing. Installed 3-1/2" overshot on tubing and attempted to attach to fish at 1240'. Would not attach. Pulled out and installed spiral grapple in overshot. Attached to fish at 1240' and pulled out with fish. Started back in well.

12-02 Continued milling with 7-1/2" O.D. x 6-1/4" I.D. mill shoe #3 for 12 hours. Circulated well and started out with mill.

12-03 Finished pulling out with mill #3. Installed 7-1/2" O.D. x 6-1/4" I.D. mill shoe #4 on milling assembly and milled for 1-1/2 hours. Tubing twisted off at 1600'. Ran Bowen overshot to fish at 1600'. Attached to fish and pulled to parted pin. Replaced joint of 3-1/2" tubing and continued milling at 7194' for 1-1/2 hours. Tubing twisted off at 2523'. Pulled out and ran Bowen overshot to 2523'. Attached to fish and pulled 5 stands to secure well.

12-04 Started out of well laying down 3-1/2" EUE 8Rd tubing.

12-06 Finished laying down 3-1/2" tubing. Installed 2-7/8" pipe rams in BOPE and pressure tested at 2000 psi for 10 minutes. Made up milling assembly on 2-7/8" EUE 8Rd tubing and ran in well picking up new 2-7/8" EUE 8Rd.

12-07 Started milling on packer at 7194' with mill #4. Rotary table failed.

12-08 Completed repairs on rotary table drive. Continued milling with mill shoe #4 for 6 hours.

12-09 Continued milling with mill #4 for 5 hours. Pulled out of well. Installed 7-1/2" O.D. x 6-1/4" I.D. mill shoe #5 on milling assembly and continued milling on packer at 7194'.

12-10 Continued milling with mill shoe #5 for 12 hours. Packer released and went down to liner at 7233'. Milled on packer without circulation for 5 minutes and started out of well.

12-11 Finished pulling out with mill. Recovered 3 spiral pieces of metal. Ran 7-1/2" O.D. Impression block on sand line to 7226' (top of fish) and pulled out. Impression showed 4" ring in center and sharp piece on outside of 7-1/2" circle. Ran 7-1/2" O.D. x 6-1/4" I.D. mill shoe #6 with spiral pattern in bore to 7226' and milled for 3-1/2 hours. Started out with mill shoe.

12-13 Pulled out of well with mill shoe #6. Made up 5-3/4" dumble grab on hydraulic jars and six 4-3/4" drill collars. Ran to 7226'. Attached to fish and grab slipped off 5 times with 6000# pull. Pulled out of well with dumble grab. Reran mill shoe #6 on milling assembly.

12-14 Milled on packer with mill #6 for 4 hours. Mill torqued up and would not mill. Pulled out with mill #6. Ran 7-1/2" O.D. overshot with 6" grapple on hydraulic jars, bumper sub and six 4-3/4" drill collars. Attached to packer at 7226' and jarred packer from 7226' to 7205'.

12-15 Jarred on packer at 7205' for 7 hours. Tools would not move up or down well. Using Dialog free pointed and backed off at 7176' (wireline measurement) leaving one 4-3/4" drill collar, hydraulic jars, bumper sub and 7-1/2" x 6-1/4" overshot attached to fish in well.

12-16 Finished pulling out with 5 drill collars. Installed down hydraulic jars and up hydraulic jars on 13 drill collars with one accelerator. Ran back to top of fish and screwed back into fish at 7176'. Jarred down for 3 hours moving fish 10' down well. Jarred up for 4 hours moving fish from 7215' up to 7185' when tubing parted. Pulled out and found part at 4622'. (Last thread of pin leaving 2-7/8" box to fish).

12-17 Pulled kill string out of well. Made up Midway 5-3/4" x 2-1/2" overshot. Ran in well and latched onto fish at 4622'. Jarred on fish. Tried to release overshot from packer but unable to release. Rigged up Dialog. Ran in with 1-5/8" string shot which stopped in drill collars at

6755'. Pulled out change tool to 1". Ran in and backed off at 7178'. Pulling out of well laying down 2-7/8" tubing.

2-18 Pulled out of well laying down 2-7/8" tubing. Layed down two 4-3/4" x 1-7/8" I.D. drill collars. Made up fishing tool and drill collars. Ran in well picking up 2-7/8" drill pipe with 134 joints picked up.

2-20 Finished picking up 2-7/8" drill pipe. Screwed into fish at 7175' and jarred on fish for 4 hours. Jars stopped working. Attempted to release overshot. Pulled loose. Pulled out of well. Mandrel in bottom jars parted. Recovered one drill collar. Fish left in well, overshot, bumper sub, 6' of jars with top of fish at 7207'. Ran in well with 7-3/8" x 4-5/8" overshot to engage jars.

2-21 Circulated well. Latched on fish with overshot at 7207'. Unable to release bottom overshot on packer. Jarred on fish for 8 hours. Rigged up Dialog. Ran in well with #6 string shot. Set shot off in packer from 7232' to 7225'. Overshot did not release.

2-22 Ran string shot in well. Set string shot #2 off in packer at 7223'. Jarred on fish for 1 hour. Made up and ran string shot #3. Set off shot in packer at 7222'. Jarred on fish 1 hour. Made up and ran shot #4 at 7221' and overshot slipped off at 7207'. Attached overshot to fish and made back off. Loaded out Dialog.

2-23 Pulled out of well. Recovered jars and bumper sub from well. Left overshot and cross-over sub on packer fish with top at 7216'. Made up and ran in well with Midway 7-3/8" x 6-1/4" mill over shoe. Replaced 10 joints of bent 2-7/8" drill pipe. Milled over fish from 7218' to 7219'. Circulated well clean.

2-24 Pulled out of well. Recovered cross-over sub and drive sub from overshot. Top of fish at 7219'. Made up Servco 7-5/8" O.D. junk mill on 2 junk subs, jars and six 4-3/4" drill collars. Ran in well.

2-27 Milled with 7-5/8" concave mill #1 for 13 hours from 7219' to 7221'.

2-28 Continued milling with concave mill #1 for 4 hours. Pulled out of well. Installed 7-5/8" O.D. concave mill #2 and continued milling for 4-1/2 hours from 7221' to 7222'.

2-29 Continued milling with 7-5/8" concave mill #2 for 6 hours. Stopped milling for 2 hours to change rig brake bands. Continued milling from 7222' to 7223'.

12-30 Pulled out with concave mill #2 and ran 7-5/8" O.D. concave mill #3 to 7223' and milled to 7225'.

12-31 Pulled out of well with concave mill #3. Installed 4-5/8" O.D. concave mill on one 4' x 3-3/4" O.D. extension below one 8-5/8" stabilizer. Ran to 7200' and closed well in.

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1-03 Using 4-5/8" concave mill #1 milled from 7223' to 7225-1/2' in 11 hours. Pulled out with mill #1 and installed new 4-5/8" mill #2. Started in well.

1-04 Finished running in well with 4-5/8" mill #2. Milled for 7 hours. Pulled out with mill #2. Installed tapered string mill with taper from 3-1/2" to 4-5/8" and ran to 7225'.

1-05 Worked 3-1/2" x 4-5/8" string mill for 12 hours when mill started sticking in well. Lost hydraulic jar action. Started out with tapered mill.

1-06 Finished pulling out with tapered string mill #1. Reran string mill #1 with new hydraulic jars, ten 4-3/4" O.D. drill collars and accelerator. Milled on fish at 7225' for 4 hours. Mill stuck in fish and hydraulic jars failed. Worked mill loose from fish. Pulled out of well. Installed new hydraulic jars and started in well.

1-07 Finished running in well with new jars. Milled through packer with 4-5/8" mill. Pulled out of well. Installed 4-3/4" O.D. tapered mill on milling assembly and reamed through fish at 7227' to 4-3/4" I.D. Started out of well with mill.

1-08 Finished pulling out with 4-3/4" mill. Made up 4-5/8" concave mill on 308' of 2-3/8" tubing tail and ran on 2-7/8" drill pipe. Found top of fill at 7372' (T.D. 7511'). Could not clean out with mill. Pulled out of well. Removed mill. Started back in well with 308' of tubing tail below 2-7/8" drill pipe.

1-10 Hung tubing tail at 7347'. Preceded by 54 cu.ft. and followed by 4 cu.ft. of lease water mixed and equalized 18 sacks of sand but would not fall out of tubing. Equalized 18 sacks of sand preceded by 350 cu.ft. of lease water and equalized sand from 7372' to 7226'. Shut down to repair accumulator pump 3 hours. Back scuttled sand from well to 7240'. Generator failed on rig.

1-11 Located top of sand at 7259'. Pulled out of well. Using Hercules wireline, filled 5-1/2" liner with sand to 7240' and capped with cement from 7240' to 7222'. Installed 308' of 2-3/8" tubing tail on Johnston 8-5/8" retrievable retainer and started in well.

1-12 Ran 2-3/8" tubing tail to 7203' with retrievable retainer at 6895'. Equalized 75 cu.ft. of 12% HCL and 3% HF acid at holes from 7204' - 7408'. Set retrievable retainer and squeezed away 38 cu.ft. of acid into holes at 2800 psi in 10 hours. Closed well in with 2800 psi on drill pipe.

1-13 Checked pressure on drill pipe. Pipe still had 1200 psi. Pressured holes at 7204' with 2800 psi. No pressure loss in 10 minutes. Pulled out of well. Using Mc Cullough electric line shot eight 1/2" bullet holes at 7195'. Reran 308' of tubing tail below 8-5/8" retrievable retainer. Hung tail at 7090' and retainer at 6782'. Set retainer and displaced 26 cu.ft. of 12% HCL and 3% HF acid into well in 6 hours. Released retainer and back scuttled acid out of well.

1-14 Hung tail at 7201' with retainer at 6893'. Equalized 62 cu.ft. of 12% HCL and 3% HF acid at 7195'. Attempted to displace acid but found leak of 800 psi in 10 minutes from drill pipe to annulus. Released retrievable retainer and pulled out of well. Using Mc Cullough, shot eight 1/2" bullet holes from 7193'-94'.

1-15 Made up 308' of 2-3/8" tubing tail on Johnston test tool and ran tail to 7181' with test tool at 6873'. Set test tool with 1000' of water cushion. Opened tool and had light blow for 5 minutes, dead for next 15 minutes. Released tool and back scuttled well. Ran tail to 7212' with retainer at 6904'. Equalized 25 cu.ft. of 12% HCL and 3% HF acid across holes from 7193' - 7195'. Set retainer and displaced acid past holes at 8 cu.ft./minute with 2500 psi. Started out of well.

1-17 Finished pulling out of well with test tools. Rigged up Mc Cullough and ran Baker 8-5/8" 40# drillable retainer on wireline. Set at 7150'. Loaded out Mc Cullough. Ran Baker stab-in tool in well on 2-7/8" drill pipe. Squeezed holes with 25 cu.ft. of 6% HCL and 1-1/2% HF acid followed with 50 sacks of Class "G" cement with 0.5% CFR-2 and 0.6% Halad 9 and followed with 10 cu.ft. of fresh water. Squeezed 15 cu.ft. in place with a final pressure of 2800 psi. Back scuttled and pulled out of well.

1-18 Finished pulling out of well. Ran in well and set Baker retrievable bridge plug at 1663'. Equalized sand from 1663' to 1615'. Pulled out of well. Picked up 12 joints of 2-7/8" tubing (367') and Baker Model "C" retrievable retainer without unloading sub. Ran in well to 1596' and equalized 50 cu.ft. of 12% HCL 3% HF acid. Pulled 3 stands and set retrievable retainer. Attempted breakdown at 0.85 psi/ft. gradient - "no breakdown". Back scuttled acid out of well. Pulled out of well. Removed BOPE and tubing head. Installed spool for landing 6-5/8" casing. Installed BOPE.

1-19 Finished installing BOPE. Ran in well with Baker retrieving tool. Back scuttled sand from 1615' to top of bridge plug. Released bridge plug at 1663' and pulled up to 300' and reset bridge plug. Finished pulling out of well. Closed blind rams and tested spool and BOPE to 3000 psi with rig pump. Made up 7-5/8" bit, junk sub, 8-5/8" 40# casing scraper, bit sub and four 4-3/4" drill collars on 2-7/8" drill pipe. Ran in well. Drilling on retainer at 7150'.

1-20 Continued drilling on Baker 8-5/8" 40# drillable retainer at 7150'. Drilled out cement and cleaned out to Hercules cement plug set at 7222'. Back scuttled and pulled out of well. Ran in well with Cavins surge tool. Worked surge tool. Pulling out of well.

1-21 Finished pulling out of well with Cavins surge tool. Rigged up Mc Cullough dual casing inspection log but failed to work. Ran Internal electronic caliper log from 7219' to surface. Loaded out Mc Cullough. Ran retrievable retainer with 300' of tubing tail to 6000'.

1-22 Rigged up Halliburton. Set retainer at 6000' and tested casing from 6000' to 7220' at 1575 psi. Pulled to 5000' and tested 5000' - 7220' at 1300 psi. Pulled to 4000' and tested 4000' - 7220' at 1050 psi. Pulled to 2000' and tested 2000' to 7220' at 1000 psi. Pulled to 1000' and tested 1000' to 7220' at 425 psi. Closed pipe rams and tested 0' to 1000' at 1000 psi. Ran into 7193' with tail of tubing. Tested holes 7193' - 7195' at 2150 psi for 60 minutes. Pulled out of well. Layed down 8-5/8" 40# Baker retainer. Made up 4-3/4" bit on 300' of 2-3/8" tubing. Ran in well with 2-7/8" D.P. to 7284'.

1-24 Finished running in well with 4-3/4" bit. Mixed 550 bbls of 63#/cu.ft. polymer completion fluid and displaced lease water from well with 400 bbls of 63#/cu.ft. polymer completion fluid. Drilled out cement from 7222' to 7240' and cleaned out sand to 7372'.

1-25 Pulled out with 4-3/4" bit. Made up Lynes 8-5/8" test tool with 17' of tail and ran to 7222' with tail.

1-26 Ran tail to 7222' and Lynes test packer at 7205'. Set and opened tester. Drill pipe pressure reached 700 psi in 10 minutes, at which time gas began unloading polymer fluid from the annulus. Unlanded test tool and displaced gas from drill pipe. Pulled out of well checking for thread leak in drill pipe. Installed new 8-5/8" Lynes test tool with 17' of tail and started back in well.

1-27 Finished running new 8-5/8" test tools in well. With tail at 7222' and Lynes test tool at 7205' opened tool at 11:00 a.m. and flowed gas into withdrawal system for 5 hours. Maximum flow pressure was 800 psi during withdrawal. Shut in pressure reached 1920 psi in 10 minutes. Attempted to rig up Mc Cullough noise logging tool but would not go through Lynes flow manifold on drill pipe. Closed test tool in and bled gas pressure off drill pipe and closed well in.

1-28 Ran Triangle noise log #1 from 7191' to surface. Showed noise to 6800' on 200 HZ scale. Reran noise log #2 from 7191' to 6200' which showed no noise. Ran noise log #3 from 7191' to 6200' which showed noise on 200 HZ curve to 7170'. Released test tool, back scuttled gas from well and started out of well.

1-29 Finished pulling out with test tools. Installed new Lynes 8-5/8" test tool with 17' of tail. Set packer at 7205' with tail to 7222'. Opened tool and flowed into Gas Company withdrawal system for 8 hours. Gas Company withdrawal line pressure was 340 psi and flow pressure on drill pipe was 700 psi. Closed well in and bled drill pipe pressure to Ø psi.

1-31 Using Gearhart equipment ran Audio analyzer log from 7191' to surface which showed noise from 7191' to 6850'. Reran log from 7191' to 6300' which repeated log #1. Released Lynes test tool. Displaced gas from well with 63#/cu.ft. polymer completion fluid. Pulled out of well.

2-01 Ran casing inspection log from 7214' to 500'. Using Mc Cullough bullet gun shot eight 1/2" bullets from 7190'-1/2' to 7192'. Made up 323' of 2-3/8" tubing tail on 2-7/8" drill pipe and ran tail to 7360'. Using Dowell mixed 11 sacks of sand with lease water, pumped sand out and displaced sand with rig pump from 7372' to 7290'.

2-02 Hung tubing tail at 7362'. Equalized 21 sacks of sand. Pulled 20 stands of drill pipe and waited 1 hour. Ran tail back in well to 7239' and back scuttled. Pulled 20 stands. Shut well in due to bad weather.

2-03 Pulled out of well. Using Hercules wireline continued sand plug from 7249' to 7237' and capped with cement from 7237' to 7219'. Made up 308' of 2-3/8" tubing tail on Johnston 8-5/8" retrievable retainer and ran tail to 7192'.

2-04 Hung tubing tail at 7192'. Equalized 75 cu.ft. of 12% HCL and 3% HF acid at 7192'. Set retrievable retainer and obtained breakdown into holes at 7190'-1/2'-92'. Rate started at 9.8 cu.ft./min. at 2800 psi and decreased to 2.8 cu.ft./min. after displacing 56 cu.ft. into well. Equalized an additional 125 cu.ft. of 12% HCL and 3% HF acid at 7192'. After displacing 78 cu.ft. into well, pressure broke and rate increased to 13 cu.ft./min. at 2800 psi. Pulled out with retrievable retainer. Using Mc Cullough electric line, set Baker 8-5/8" Model "K" drillable retainer at 7155'. Baker setting tool failed. Pulled electric line from rope socket.

2-05 Ran 3-1/2" Bowen overshot on 4-3/4" O.D. bumper sub, hydraulic jars and four drill collars to 7194'. Attached to Baker setting tool, jarred shear stud loose from retainer and pulled out of well. Ran Baker seal assembly to retainer at 7156', pumped 25 cu.ft. of 6% HCL and 1-1/2% HF acid followed by 67 cu.ft. of Neat "G" with 0.5% D-65 and 0.6% D-108. Stabbed into retainer and over displaced cement 30 cu.ft. past holes at 7192'. Pulled out of retainer, mixed 67 cu.ft. of Neat "G" with 0.5% D-65 and 0.6% D-108. Displaced 39 cu.ft. into holes at 7192' before reaching final squeeze pressure of 2900 psi. Released from retainer and back scuttled cement from well. Started out with stinger.

2-07 Finished pulling out with stinger. Installed new 9" 5000 psi Hydril packing unit in Hydril. Made up 7-5/8" bit on 8-5/8" 40# casing scraper, 1 junk sub and six 6-3/4" O.D. drill collars and ran to 7152'. Pressure tested Hydril bag to 2000 psi. Displaced 63#/cu.ft. lease water from well with 400 bbls of 63#/cu.ft. polymer completion fluid and started drilling retainer at 7155'.

2-08 Finished drilling retainer at 7155' and drilled hard cement to 7195' before tools fell free. Drilled out cement cap from 7220' to 7226'. Back scuttled well volume and started out with drilling assembly.

2-09 Finished pulling out with 8-5/8" drilling assembly. Made up Johnston 8-5/8" retrievable retainer on 2-7/8" drill pipe and set at 7107'. Pressure tested from 7107' to 7226' at 1000 psi for 20 minutes. Pulled out with retainer. Made up 4-3/4" bit on 5-1/2" casing scraper and drilled cement from 7226' to 7240' and cleaned sand out to 7260'. Bit started sticking while cleaning out sand. Pulled out with 4-3/4" bit and started back with opened ended 2-3/8" tubing.

2-10 Continued cleaning out from 7260' to 7508'. Circulated well and pulled out with tubing tail. Made up Lynes 8-5/8" 40# test tools with 10' of tubing tail and ran tool to 7210' with tail to 7220'. Pressure tested the test tree and manifold to 3000 psi for 20 minutes.

2-11 Lynes test tool set at 7208' with tail to 7218'. Set and opened tool at 7:00 a.m. Flowed into Gas Company withdrawal system for 8 hours. Well reached maximum surface pressure of 1100 psi while flowing (withdrawal line back pressure = 340 psi). Ran Gearhart audio analyzer log from 7189' to 6500' which showed no gas movement.

2-12 Test tool set at 7108' with tail to 7218'. Reopened test tool and flowed gas into withdrawal system for 12 hours.

2-14 Rigged up Triangle. Ran Audio analyzer log from 7189' to surface which showed no gas movement. Back scuttled gas out of drill pipe. Pulled out of well. Rigged up Mc Cullough and ran collar locator from 7114' to 7280'. Located top of Model "D" junk packer - 7221' - bottom 7224'. Using wire line, set Baker large bore Model "D" packer - 7213' top - 7218' bottom. Made up locator sub and 2 seals on 2-7/8" drill pipe. Running in well.

2-15 Finished running in well to 7213' and pressured tested Baker packer and seals. Circulated gas from well. Layed down 2-7/8" drill pipe and drill collars. Installed 6-5/8" pipe rams. Ran 6-5/8" 24# N-80 Hydril triple seal casing with 6 seals and cross-over landing locator sub from seal threads to 6-5/8" 24# N-80 Hydril triple seal threads. Landed on packer with 50,000#.

2-16 Tested 8-5/8" Baker Model "D" seals and packer. Inhibited 75#/cu.ft. polymer completion fluid between 6-5/8" casing. Stabbed into packer. Attempted to set Baker 6-5/8" bridge plug - "failed to work" - attempted to set second Baker 6-5/8" bridge plug #2 - "failed to work" - released Baker - ran and set Howco bridge plug. Cut off 6-5/8" casing. Reinstalled BOPE. Retrieved bridge plug. Picking up 2-7/8" tubing.

2-17 Pulled out of well. Removed BOPE. Installed seal flange and tubing head. Reinstall BOPE. Ran into 300' and pulled Howco 6-5/8" bridge plug up to 60'. Pulled retrieving tool. Closed shut off rams and tested BOPE connections to 3000 psi. Retrieved bridge plug. Ran in well with 2 seals and locator sub. Tongs quit working "down 3 hours". Finished picking up tubing. Circulate gas from well.

2-18 Land on packer with 10,000# closed pipe rams and tested seals and packer to 1500 psi. Pulled out of well and lay down test seals. Ran 2-7/8" 6.5# 8Rd EUE J-55 - N-80 tubing, Drift and Hydrotest tubing to 5000 psi. Spaced out and landed on packer with 10,000#. Pulled 20,000# over weight of tubing to check latch. Set back pressure valve in doughnut. Removed BOPE installed xmas tree. Tested xmas tree to 5000 psi for 20 minutes. Circulated polymer completion fluid out of well with waste salt water.

2-19 Install blind flanges. Rig down. Release rig at 3:30 p.m. 2-19-83.

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DEPARTMENT OF CONSERVATION
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
3/25/2014	Removed the lateral lines and installed the blind and the companion flanges. Moved in and rigged up the PPS slickline unit. Made up the "GS" pulling tool on wireline. Ran in the well and retrieved the prong and the PXN plug. Made up a shifting tool on wireline. Ran in the well and shifted the sliding sleeve open. Rigged down and moved out the wireline unit. Rigged up for the well kill and opened the well with 974 psig surface pressure on the tubing and 400 psig on the casing. Pumped 100 bbl of 8.5 ppg KCl brine down the tubing and 100 bbl of KCl brine down the casing (tubing and casing pressure at 0 psig). Closed in the well and secured the well.
3/26/2014	Opened the well with 950 psig surface pressure on the tubing and 500 psig on the casing. Rigged up and pumped 70 bbl of hi-vis polymer down the tubing and displaced with 100 bbl of 8.5 ppg KCl brine. Rigged up and pumped 100 bbl of KCl brine down the casing with the tubing and casing pressure at 0 psig. Pumped 150 bbl of 8.5 ppg KCl brine down the tubing with the tubing/casing annulus open to the tank. No returns to the surface with the tubing and the casing presure at 0 psig. Installed the back pressure plug and nippled down the production tree. Nippled up the Class III 5M BOPE and secured the well.
3/27/2014	Continued to rig up the Class III 5M BOPE. Moved in and rigged up the WEA test truck. Pressure tested the blind rams to 5000 psig (high) and 300 psig (low) for twenty minutes. Pressure tested the pipe rams to 5000 psig (high) and 300 psig (low) for twenty minutes. Pressure tested the Hydril annular preventer to 3600 psig (high) and 300 psig (low) for twenty minutes. Pressure tested the choke manifold and all the control valves to 5000 psig (high) and 300 psig (low) for twenty minutes. (All tests charted and tested good M.Davis DOGGR waived witness of pressure tests). Rigged down and moved out the test truck. Rigged up the working floor and the tubing equipment. Opened the well with 980 psig surface pressure on the tubing and 400 psig on the casing. Rigged up and pumped 50 bbl of hi-vis polymer and displaced with 100 bbl of 8.5 ppg KCl brine. Rigged up and pumped 100 bbl of KCl brine down the casing. Rigged up to the tubing and attempted to circulate the well. Secured the well.
3/28/2014	Opened the well with 500 psig surface pressure on the tubing and 250 psig on the casing. Moved in and rigged up the PPS slickline unit, Made up 1-1/2" tools on wireline and ran in the well to 7673' and tagged fill. Made up the shifting tool on wireline and ran in the well and attempted to close the sliding sleeve (tools sheared). Ran in the well with the shifting tool and attempted to close the sliding sleeve. Rigged down and moved out the slickline unit and secured the well.
3/31/2014	Opened the well with 750 psig surface pressure on the tubing and 350 psig on the casing. Moved in and rigged up the PPS wireline unit. Ran in the well and shifted the sliding sleeve closed. Rigged down and moved out the wireline unit and secured the well. Spotted the cement bins and rigged up. Opened the annulus and bled to 0 psig (slight blow). Closed in the well and the pressure built to 350 psig. Cleaned the location and secured the well.
4/1/2014	Opened the well with 980 psig surface pressure on the tubing and 250 psig surface pressure on the casing. Held a pre job meeting with the Schlumberger coiled tubing personnel. Secured the well and the location.
4/2/2014	Opened the well with 350 psig surface pressure on the casing and 980 psig on the tubing. Moved in and rigged up the Schlumberger coiled tubing unit and secured the well.
4/3/2014	Opened the well with 350 psig surface pressure on the casing and 980 psig on the tubing. Pumped 50 bbl of 8.5 ppg KCl brine. Moved in and rigged up the HES cementing equipment and the Schlumberger coiled tubing unit. Made up a WEA check valve and nozzle on the coiled tubing and ran in the well to 7693' and tagged. Mixed and pumped 8 bbl of 14.8 ppg Class "G" cement (with additives) and displaced with 21 bbl of 8.5 ppg KCl brine (Estimated top of the cement plug at 7431'). Pulled the coiled tubing to 7300' and pumped 21 bbl of 8.5 ppg KCl brine to clear the coiled tubing. Pulled out of the well with the coiled tubing (M. Davis, DOGGR inspected and approved the BOPE). Secured the well and the location.
4/4/2014	Opened the well with 350 psig surface pressure on the casing and 1000 psig on the tubing. Rigged up the Schlumberger coiled tubing unit and pumped 50 bbl of 8.5 ppg KCl brine down the tubing. Ran in the well with the coiled tubing and tagged the top of the cement plug at 7354'. Pulled out of the well, rigged down and moved out the Schlumberger coiled tubing unit and the HES cementing equipment. Secured the well and the location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
4/7/2014	Opened the well with 350 psig surface pressure on the casing and 1000 psig surface pressure on the tubing. Pumped 60 bbl of 8.5 ppg KCl brine down the tubing and 50 bbl of KCl brine down the casing. Backed out the hold down studs and unlanded the completion tubing at 40,000lb. Worked the completion tubing and unset the packer at 989' (Took gas kick), closed in the well and pumped 60 bbl of 8.5 ppg KCl brine down the tubing and the casing. Monitored the well and pumped 60 bbl of KCl brine down the casing and the tubing. Opened the well and attempted to move the completion tubing. Secured the well and the location.
4/8/2014	The well was opened with 550 psig surface pressure on the tubing and 150 psig on the casing. Pumped 50 bbl of 8.5 ppg KCl brine down the tubing and 17 bbl of KCl brine down the casing. Pressured the well to 1000 psig and bled back to the tank. Moved in and rigged up the Tiger wireline unit. Made up a perforating gun with (4), 1/2" spf on wireline. Ran in the well to 1765' and fired the perforating gun. Puled out of the well and made up a chemical tubing cutter on wireline. Ran in the well to 7145', correlated and cut the completion tubing at 7145' while pumping 1 bpm of brine down the annulus. Rigged down and moved out the Tiger wireline unit. Worked the completion tubing and attempted to release the packer. Moved in and rigged up the Tiger wireline unit. Made up free point tools on wireline and ran in the well to 1020' (Free point showed 100' stuck). Pulled to 970' (75% free). Rigged down the free point indicator and made up a chemical tubing cutter on wireline. Ran in the well to 2484'. correlated and cut the completion tubing at 2484'. Pulled out of the well with the cutting tool. Rigged down and moved out the Tiger wireline unit and secured the well.
4/9/2014	The well was opened with 500 psig surface pressure on the casing and 600 psig on the tubing. Pumped 70 bbl of 8.5 ppg KCl brine down the tubing and bled down the casing pressure. Pumped 30 bbl of KCl brine down the casing. Pumped 1 bpm of brine down the casing and moved in and rigged up the Tiger wireline unit. Made up a chemical tubing cutter on wireline. Ran in the well to 960' and cut the main completion tubing. Pulled out of the well with the cutter tool. Rigged down and moved out the Tiger wireline unit. Pulled out of the well with 2-3/8" completion tubing. Moved in and rigged up the Tiger wireline unit. Made up a tubing cutter on wireline. Ran in the well and attempted to enter the side tubing string(dual completion string). Ran in the well to 2600' and logged to 989'. Correlated and cut the side tubing string at 1000'. Rigged down and moved out the Tiger wireline unit. Made up a 3-1/2" over shot with 2-3/8" grapple, a bumper sub, a set of jars on the workstring. Ran in the well to 960', engaged the fish. and jarred at 60,000 lb (no movement). Moved in and rigged up the Tiger wireline unit. Made up the CCL tools on the wireline. Ran in the well to 1300', pulled to 1000', the wireline tools stuck. Worked the wire and pulled out of the rope socket. Pulled out of the well with the wireline and secured the well.
4/10/2014	Opened the well with 450 psig surface pressure on the tubing and the casing. Rigged up and pumped 45 bbl hi-vis 10 ppg NaCl polymer and 45 bbl of 10 ppg NaCl brine down the tubing and the casing. Pumped brine at 1 bpm down the casing.. Released from the overshot and pulled out of the well. Made up a stab in guide on the workstring and ran in the well to 989' and stabbed into the side tubing string. Moved in and rigged up the Tiger wireline unit. Made up a CCL tool on wireline and ran in the well to 2514'. Pulled out of the well (reheaded the wireline). Made up a 2-3/8" chemical tubing cutter on wireline. Ran in the well (CCL not working). Pulled out of the well and reheaded the wireline unit. Made up the wireline tools and ran in the well (CCL not working). Rigged down and moved out the Tiger wireline unit. Secured the well and the location.
4/11/2014	The well was opened with 200 psig surface pressure on the tubing and 450 psig on the casing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing and 50 bbl of 10 ppg NaCl brine down the casing; pumped brine at 1 bpm down the casing. Moved in and rigged up the Tiger wireline unit. Made up a chemical tubing cutter on wireline. Ran in the well (pumping 10 ppg brine at 2 bpm) to 2560', correlated and cut the side string. Pulled out of the well (took gas kick). Pumped brine down the casing at 2 bpm and rigged down and moved out the Tiger wireline unit. Pumped out of the well with the completion tubing, pumping 10 ppg brine down the casing at 1 bpm. Laid down the stab in guide. Made up a 3-1/8" overshot, a bumper sub and a set of jars on the workstring. Ran in the well to the top of the fish at 960', engaged the fish, pulled 1 stand and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
4/15/2014	The well was opened with 450 psig surface pressure on the casing and 300 psig on the tubing. Rigged up and pumped 100 bbl of 10 ppg NaCl brine down the tubing and 100 bbl down the casing, opened the well and monitored. Pulled out of the well and laid down #1 dual string packer and the fishing tools. Pulled out of the well with the side string and laid down pitted completion tubing. Made up a 5-3/4" over shot, a bumper sub, and a set of jars on the workstring. Ran in the well to 1235' (Fish 200' lower) and attempted to work over the fish. Pulled out of the well and repalced the mill control with T/C. Ran in the well to 1235', engaged the fish, jarred on the fish and secured the well.
4/16/2014	Opened the well with 450 psig surface pressure on the casing and 300 psig on the tubing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing and 100 bbl of brine down the casing. Bled off the pressure and opened the BOPE pumping brine at 1 bpm down the casing. Jarred on the fish (Jars quit working). Released from the fish, pulled out of the well and laid down the jars and the bumper sub. Measured and picked up a 5-3/4" overshot with a 2-3/8" grapple, a bumper sub, a set of jars, (2) 4-3/4" drill collars and an intensifier on the workstring. Ran in the well to 1238', engaged the fish and jarred (dragging up hole) and pulled free. Pulled out of the well and laid down bent tubing (Recovered 40 joints of 2-3/8" completion tubing). Made up a 5-3/4" overshot with 3' extension, a set of jars, a bumper sub, (2) 4-3/4" drill collars and an intensifier on the workstring. Ran in the well to 2300' and secured the well.
4/17/2014	Opened the well with 450 psig surface pressure on the casing and 300 psig on the tubing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing and 50 bbl of 10 ppg brine down the casing; opened the BOPE and pumped brine at 1 bpm down the casing. Ran in the well to top of the fish at 2316' and attempted work over the fish. Pulled out of the well laid down the fishing tools (no recovery). Made up a 7" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to 2316', pulled out of the well and laid down the 7" casing scraper. Made up a 7" retrievable bridge plug on the 2-7/8' workstring. Ran in the well to 2307',' set and released from the bridge plug. Pulled out of the well and laid down the bridge plug retrieving tool. Made up a 7" lok-set test packer on the 2-7/8' workstring. Ran in the well to 1787'. set the test packer and pressure tested below the test packer to 500 psig (No test). Released the 7" test packer and ran in the well to 2280'. Set the 7" test packer and pressure tested below the test packer to 1000 psig for ten minutes (Test good). Released the 7" test packer and pulled to 1384'. Secured the well and the location.
4/18/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Set the test packer at 1384', filled the well and pressure tested the tubing x casing annulus to 1000 psig for ten minutes. Pumped 10 ppg NaCl brine down the tubing at 4 bpm with 300 psig. Released the test packer, pulled out of the well and laid down the 7" test packer. Ran in the well open ended to 2250' and dumped 5 cuft of sand; estimated the top of the sand at 2282' and pulled out of the well. Made up a 7" WEA Arrow-set packer on the workstring. Ran in the well to 1267', set the packer, filled the well and pressure tested the tubing x casing annulus to 1000 psig (bled down) and secured the well.
4/21/2014	The well was opened with 250 psig surface pressure on the tubing and 0 psig on the casing; bled down the tubing pressure. Moved in and rigged up the HES cementing equipment and pressure tested the lines to 2500 psig. Pumped brine at 2 bpm at 58 psig. With the test packer at 1267', mixed and pumped 64 bbl (200 sx) of 14.8 ppg Class "G" cement with additives and displaced with 7 bbl of water (final squeeze pressure of 475 psig). Rigged down and moved out the HES cementing equipment (waited on the cement for two hours). Opened the well with 0 psig surface pressure on the tubing. Released the test packer, pulled out of the well and laid down the test packer. Ran in the well open ended to 1000' and secured the well.
4/22/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Ran in the well to 1327' and tagged the top of the.cement. Filled the well and pressure tested the tubing/casing annulus to 500 psig for ten minutes (Test good). Pulled out of the well and made up a 6-1/8" bit, a bit sub, and (2)) 4-3/4" drill collars on the workstring. Ran in the well to 1327', nippled up the PGSR. Picked up the power swivel and cleaned out the cement from 1327' to 1630'. Pressure tested the production casing to 500 psig surface pressure for ten minutes (test good). Cleaned out the cement to 1786' and pressure tested the production casing to 500 psig surface pressure for ten minutes (Test good). Secured the well.

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Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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4/23/2014	Cleaned out the cement from 1780' to 1800'. Ran in the well to the top of the sand at 2280' and pressure tested the tubing/casing annulus to 500 psig surface pressure for ten minutes (test good). Cleaned out the sand from 2280' to 2301' and circulated the well clean. Rigged down and moved out the power swivel. Pulled out of the well and laid down the 6-1/8" bit. Made up an WEA retrieving head on the workstring. Ran in the well to 2301' and worked over the retrievable bridge plug. Released the retrieveable bridge plug, circulated out the gas cut brine (800 psig) and secured the well.
4/24/2014	Opened the well with 600 psig surface pressure on the tubing and 800 psig on the casing. Bled down the tubing to 200 psig, rigged up and pumped 50 bbl of 10 ppg NaCl brine. Bled down the casing and pumped 70 bbl of 10 ppg NaCl brine down the casing. The well was on a vacuum; pumped NaCl brine at 1 bpm down the casing. Pulled out of the well and laid down the retrievable bridge plug. Made up 1 joint of 6" wash pipe with shoe, a bumper sub and a set of jars on the workstring. Ran in the well and worked over the fish. Pulled out of the well and laid down the 6" wash pipe (no recovery). Made up a 5-1/2" wash pipe with a 5-1/2" over shot with a 4-1/2" grapple on the workstring. Ran in the well to 2313' and worked over the fish. Pulled out of the well with no recovery. Changed the grapple to 3-1/8" and ran in the well with the wash pipe, a bumper sub, a set of jars, (2) 4-3/4" drill collars and 2-3/8" tubing to 1400' and secured the well.
4/25/2014	Opened the well with 50 psig surface pressue on the tubing and the casing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing and the casing. Ran in the well with the fishing tools/BHA to 2316', engaged the fish, and jarred loose at 60,000 lb. Pulled out of the well and laid down the fishing tools (recovered 7 joints and cut off 2-3/8" tubing). Made up an impression block, ran in the well to 2512' and pulled out of well . Ran in the well with a kill string to 2000' and secured the well.
4/28/2014	Opened the well with 480 psig surface pressure on the casing and 275 psig on the tubing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of NaCl brine down the casing; well on a vacuum. Pulled out of the well with the kill string. Measured and picked up a 5-3/4" wash pipe an over shot with a 3-1/8" grapple, a bumper sub, drill collars and a set of jars on the workstring. Ran in the well to 2513', worked over the fish. Pulled out of well and stood back the fishing tools. Changed the grapple on the fishing BHA to 2-3/8". Made up the fishing tools, ran in the well to 2513'. Engaged the fish, jarred loose, and pulled out of well (dragging) to 1600' and secured the well.
4/29/2014	Opened the well with 400 psig surface pressure on the casing and 275 psig on the tubing. Pumped 30 bbl of 10 ppg NaCl brine down the tubing, bled down the casing and pumped 50 bbl of 10 ppg of NaCl brine down the casing. Pulled out of the well and stood back the 4-3/4" drill collars (fish stuck below the BOPE and attempted to work free). Secured the well due to high winds.
4/30/2014	Opened the well with 400 psig surface pressure on the casing and 275 psig on the tubing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing, bled down the casing and pumped 50 bbl of NaCl brine down the casing. Opened the BOPE and picked up the 6" drill collar with the bumper sub and knocked the fish free. Laid down the 6" drill collar, picked up the tubing and worked the fish to the surface. Laid down the completion packer, pulled out of the well and laid down the 2-3/8" completion tubing to 2100' and secured the well.
5/1/2014	The well had 375 psig surface pressue on the casing and 150 psig on the tubing. Rigged up and pumped 50 bbl of NaCl brine down the tubing and 50 bbl of NaCl brine down the casing (tubing and casing at 0 psig). Opened the well and ran in the well with 54 stands of workstring tubing. Pulled out of the well and laid down the 2-3/8" tubing (laid down 172 jts fo completion tubing, the GLMA, the sliding sleeve and the cut off). Changed the pipe rams from 2-3/8" to 2-7/8". Measured and picked up the 7" casing scraper, a bumper sub and a crossover on the 2-7/8" workstring. Measured and picked up the 2-7/8", 6.5 # P-110 workstring tubing to 1922' and secured the well.
5/2/2014	The well had 300 psig surface pressure on the casing and 200 psig on the tubing. Rigged up and pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of NaCl brine down the casing;0 psig surface pressure on the tubing and the casing. Measured and picked up the 2-7/8" workstring tubing to 7116'. Pulled out of the well to 3315' and secured the well.

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5/5/2014	Opened the well with 200 psig surface pressure on the tubing and 400 psig on the casing. Rigged up and pumped 50 bbl of 10 ppg NaCl brine down the tubing and 50 bbl of NaCl brine down the casing; the tubing and casing pressure was at 0 psig. Pulled out of the well with the kill string and laid down the 7" casing scraper and the bumper sub. Made up a 5-3/4" over shot with a 2-3/8" grapple, a bumper sub, a set of jars, and (2) 4-3/4" drill collars on the 2-7/8" workstring. Ran in the well to 7152' and attempted to work over the fish. Pulled out of the well to a kill string at 2000' and secured the well.
5/6/2014	Opened the well with 150 psig surface pressure on the tubing and 300 psig on the casing. Rigged up and pumped 50 bbl of 10 ppg NaCl brine down the tubing, bled down the casing and pumped 50 bbl of NaCl brine down the casing; the tubing and casing pressure was at 0 psig. Pulled out of the well and laid down the overshot. Made up a 5-3/4" shoe, overshot with a 2-3/8" grapple, a bumper sub, a set of jars, and (2) 4-3/4" drill collars on the 2-7/8" workstring. Ran in the well to 7145' and picked up the power swivel. Worked over the fish attempted to engage the fish and laid down the power swivel. Pulled out of the well to a kill string at 2000' and secured the well.
5/7/2014	Opened the well with 125 psig surface pressure on the tubing and 300 psig on the casing. Rigged up and pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of 10 ppg NaCl brine down the casing; the well at 0 psig surface pressure. Pulled out of the well and laid down the fishing tools. Made up a 4-5/8" over shot with a 2-3/8" grapple on the 2-7/8" workstring. Ran in the well to 7152', worked over the fish and jarred the fish jarred loose at 120,000 lb. Attempted to release the 7" HES G-6 packer and pulled out of the well (hanging at casing collars). Pulled out of the well to 2511' and secured the well.
5/8/2014	The well was opened with 100 psig surface pressure on the tubing and 300 psig on the casing. Rigged up and pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of NaCl brine down the casing; the well was at 0 psig. Pulled out of the well and laid down the fishing tools. Laid down the fish (recovered 2-3/8" cut off, on/off tool, the HES G-77 packer, (5) joints 2-7/8" tubing, on/off tool HES G-6 packer and over shot). Made up a 7" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to 7360', tagged, pulled out of the well to 2550' and secured the well.
5/9/2014	The well was opened with 300 psig surface pressure on the casing and 100 psig on the tubing. Rigged up and pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of NaCl brine down the casing. Pulled out of the well with the 7" casing scraper. Made up a WEA 7" retrievable bridge plug on the 2-7/8" workstring. Ran in the well to 1027' and attempted to set the retrievable bridge plug (would not set). Ran in the well to 1281' and attempted to set the retrievable bridge plug. Pulled out of the well and changed out the 7" retrievable bridge plug. Ran in the well to 100', set the retrievable bridge plug and pressure tested to 500 psig surface pressure. Released the retrievable bridge plug, ran in the well to 1039', set the retrievable bridge plug and pressure tested to 500 psig for 5 minutes. Released the retrievable bridge plug, ran in the well to 2995', set the bridge plug and filled the well with 107 bbl of 10 ppg NaCl brine. Presure tested the production casing to 500 psig surface pressure (bled down 300 psig in ten minutes) Released the 7" retrievable bridge plug and secured the well.
5/12/2014	Opened the well with 200 psig surface pressure on the tubing and 400 psig on the casing. Rigged up and pumped 25 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 25 bbl of NaCl brine down the casing; the well was at 0 psig. Ran in the well with the 7" retrievable bridge plug, tagged at 7358', pulled to 7344' and set the bridge plug. Released from the retrievable bridge plug and spotted 4 cuft of sand on top of the bridge plug. Pulled out of the well and laid down the bridge plug retrieving tool. Made up a WEA 7" test packer on the 2-7/8" workstring. Ran in the well to 7300', set the test packer, filled the well with 45 bbl of 10 ppg NaCl brine. Pressure tested the production casing from 7344' to 7300' at 500 psig for 10 minutes (Test good). Released the 7" test packer and secured the well.

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Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
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5/13/2014	The well was opened with 0 psig surface pressure on the tubing and 100 psig on the casing. Bled down the casing and filled the well with 25 bbl of 10 ppg NaCl brine. Pulled out of the well to 5273', set the test packer, and pressure tested the 7" production casing from 5273' to 7344' at 500 psig for ten minutes (Test good). Released the test packer, pulled to 2993', set the packer, and pressure tested the production casing from 2993' to 7344' at 500 psig for ten minutes. Filled the tubing/casing annulus with 1 bbl of brine, pressure tested to the surface at 500 psig for ten minutes (bled down 300 psig in ten minutes). Released the test packer and pulled out of the well and laid down the test packer. Ran in the well to 1250' with a kill string. Secured the well, slip and cut the drilling line.
5/14/2014	Filled the well with 5 bbl of NaCl brine. Pulled out of the well with the kill string. Moved in and rigged up the Schlumberger wireline unit. Made up the USIT tool on the wireline unit. Ran in the well to 7344' and logged to the surface. Rigged down and moved out the Schlumberger wireline unit. Made up the 7" bridge plug retrieving tool on the 2-7/8" workstring. Ran in the well to 3627' and secured the well.
5/15/2014	The well was standing full of NaCl brine. Ran in the well with the bridge plug retrieving tool to the bridge plug at 7344'. Rigged up the King swivel and cleaned out the sand and reverse circulated the well clean. Released the 7" retrievable bridge plug and equalized the well. Released the bridge plug, pulled out of the well and laid down the 7" bridge plug. Made up a 7" WEA test packer on the 2-7/8" workstring. Ran in well to 2550' and secured the well.
5/16/2014	The well was opened with 100 psig surface pressure on the tubing and the casing. Pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of 10 ppg NaCl brine down the casing. Ran in the well with the 7" test packer to 7344' and set the test packer. Filled the tubing with 44 bbl of NaCl brine, pumped in 70 bbl of NaCl brine at 5 bpm at 300 psig. Released the test packer, pulled out of the well to a kill string at 2550' and secured the well.
5/19/2014	The well was opened with 100 psig surface pressure on the tubing and 300 psig on the casing. Rigged up pumped 50 bbl of 10 ppg NaCl brine down the tubing. Bled down the casing and pumped 50 bbl of NaCl brine down the casing; with 0 psig on well. Pulled out of the well and laid down the 7" test packer. Made up a WEA 7" PCR cement retainer on the 2-7/8" workstring. Ran in the well with tlhe 7" cement retainer to 7328', set the cement retainer, and pumped below the retainer at 4 bpm at 200 psig. Unstabbed from the cement retainer, filled the tubing/casing annulus with 88 bbl of NaCl brine and pressure tested to 500 psig surface pressure. Secured the well and rigged up for the cement job.
5/20/2014	Rigged up and pumped 40 bbl of NaCl brine down the tubing. Moved in and rigged up the HES cementing equipment and pressure tested the lines to 3000 psig. Pumped in the tubing at 4 bpm at 100 psig. Stabbed into the cement retainer, mixed and pumped 64 bbl of 14.8 ppg, Class "G" cement with additives at 4 bpm and displaced with 41 bbl of brine. Un stabbed from the cement retainer and balanced the cement plug with 2 bbl of brine. (58 bbl of 14.8 ppg cement below the retainer; final squeeze: 70 psig with hydrostatic pressure= 5700 psig). Estimated top of the cement at 7128'. Pulled to 7000', rigged up and reverse circulated with 40 bbl of NaCl brine with a trace of cement to the surface. Rigged down and moved out the HES cementing equipment. Pulled out of the well and laid down the cement retainer stab in guide. Ran in the well to open ended to 5000' and secured the well.
5/21/2014	Filled the well with 11 bbl of NaCl brine. Ran in the well and tagged the cement plug at 7200' (E. Blevins, DOGGR witnessed and approved tag and mudding of well). Rigged up and pumped 105 bbl of 9.6 ppg abandonment mud from 7200' to 4500'. Pulled out of the well and laid down 84 joints of 2-7/8" workstring tubing. Pulled out of the well, and nippled up a shooting flange. Moved in and rigged up the WEA wireline unit. Made up a 4" perforating gun with (8), 1/2" shots on wireline. Ran in the well to 4500', correlated and shot (8), 1/2" holes from 4490' to 4492'. Rigged down and moved out the WEA wireline unit. Made up a 7" test packer on the 2-7/8" workstring. Ran in the well to 1400' and secured the well.
5/22/2014	The well was standing full of NaCl brine. Ran in the well with the 7" test packer to 4450' and set the test packer. Pressure tested the tubing/casing annulus to 500 psig and pressure tested below the test packer to 1600 psig (Bled off 500 psig in ten minutes). Released the test packer, pulled out of the well and laid down the test packer. Ran in the well open ended to 4490' and secured the well. (K. Gustafson, DOGGR approved test and plug).

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5/23/2014	Moved in and rigged up the HES cementing equipment and pressure tested the lines to 1000 psig. With the 2-7/8" tubing tail at 4490', mixed and pumped 16.1 bbl of 14.8 ppg, Class "G" cement with additives and displaced with 23 bbl of brine . Pulled out of the well to 3996', rigged up and reverse circulated with 30 bbl of brine (trace of cement returns to the surface). Pulled to 3300' and secured the well. Rigged down and moved out the HES cementing equipment.
5/27/2014	Ran in the well and tagged the top of the cement at 4153'. (K. Gustafson, DOGGR witnessed and approved the tag and the mudding of well). Rigged up and pumped 70 bbl of 9.6 ppg abandonment mud from 4153' to 2376'. Pulled out of the well and laid down the excess 2-7/8" workstring tubing and secured the well.
5/28/2014	Moved in and rigged up the HES cementing equipment and pressure tested the lines to 1000 psig. With the 2-7/8" workstring tubing tail at 2372', mixed and pumped 17.5 bbls of 14.8 ppg, Class "G" cement with additives displaced with 10 bbl of NaCl brine. Pulled to 1928' and reverse circulated with a trace of cement returns to the surface. Rigged up the HES cementing equipment with the tubing tail at 1928' mixed and pumped 17.5 bbls of 14.8 ppg Class "G" cement with additives and displaced with 7.5 bbl of brine. Pulled to 1485' and reverse circulated with a trace of cement returns to the surface. Rigged up the HES cementing equipment and with the tubing tail at 1485', mixed and pumped 17.5 bbl of 14.8 ppg, Class "G: cement with additives and displaced with 5 bbl of brine. Pulled to 1000', reverse circulated with 2 cuft of cement returns to the surface. Rigged down and moved out the HES cementing equipment. Pulled out of the well and laid down the excess 2-7/8" workstring tubing and secured the well.
5/29/2014	Ran in the well to 1068' and tagged the top of the cement plug (K. Gustafson, DOGGR witnessed and approved tag). Pulled out of the well and made up a 7" casing cutter on the 2-7/8' workstring. Ran in the well to 992', nippled up the PGSR and picked up the power swivel. Cut the 7" casing at 992', pulled out of the well and replaced the cutter blades. Ran in the well to 497', cut the 7" production casing, pulled out of the well and laid down the 7" casing cutter. Rigged down the working floor and nippled down the BOPE and rigged down the tubing head. Made up a 7" casing spear on the 2-7/8" workstring. Unlanded the 7" production casing, removed the pack off and the slips from the casing head. Released and laid down the 7" casing spear, nippled up the double gate BOPE and secured the well.
5/30/2014	Rigged up the working floor. Made up a 7" casing spear on the 2-7/8" workstring. Unlanded the 7" production casing and laid down the casing spear. Pulled out of well and laid down the 7" casing (recovered 479' of 7" production casing). Made up a 7" casing spear on the 2-7/8" workstring. Ran in the well to 497' and attempted to pull the 7 " casing (unable to pull free; the spear dragged out of the casing stub). Pulled out of the well and found the casing spear damaged. Nippled up the PGSR, ran in the well to 130' and secured the well.
6/2/2014	Made up a 7" casing cutter on the 2-7/8' workstring. Ran in the well to 992', rigged up the power swivel and re-cut 7" production casing. Pulled to 710', rigged up and cut the 7" casing. Pulled out of the well and laid down the 7" casing cutter. Made up a 7" casing spear', a bumper sub, a set of jars, (2) 4-3/4" drill collars and an intensifier on the 2-7/8" workstring. Ran in the well to 497', engaged the 7" casing stub, jarred on fish at 85,000 lb over the string weight. Attempted to release the casing spear and secured the well.
6/3/2014	Released the casing spear, pulled out of the well and laid down the fishing tools. Made up a 7" casing cutter on the 2-7/8" workstring. Ran in the well to 600', picked up the power swivel and cut 7" production casing at 600'. Pulled out of the well and laid down the 7" casing cutter. Made up a 7" casing spear, a bumper sub, a set of jars, 4-3/4" drill collars and an intensiifer on the 2-7/8" workstring. Ran in tlhe well to 497', engaged the 7" casing stub, jarred on the casing stub at 85,000 lb over the string weight (Moved up the hole 7'). Released the casing spear and secured the well.
6/4/2014	Pulled out of the well and laid down the fishing tools. Made up a 7" spear, a bumper sub, 6" jars, (2) 4-3/4" drill collars and a 6" intensifier on the 2-7/8" workstring. Ran in the well to 497', engaged the 7" casing stub, jarred on the casing stub at 140,000 lb (moving up hole). Jarred free, pulled out of the well and stood back the fishing tools. Cut and laid down 105' of 7" production casing. Made up an 9-7/8" bit, bit sub and drill collars on the 2-7/8" workstring. Ran in the well to 508' and tagged fill. Nippled up the PGSR, rigged up the power swivel and cleaned out fill to 601' and circulated the well clean. Pulled to 366' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
6/5/2014	Pulled out of the well and laid down the 9-7/8" bit and the bit sub. Made up a 10-3/4" casing scraper with 10' pup joint below on the 2-7/8" workstring. Ran in the well to 600' reverse circulated the well clean. Pulled out of the well and laid down the 10-3/4" casing scraper. Made up a 7" casing spear, a bumper sub, a set of 6" jars, (2) 4-3/4" drill collars and an intensifier on the 2-7/8" workstring. Ran in the well and attempted to engage the 7" casing stub. Pulled out of the well and laid down the fishing tools. Made up a 6-1/4" bit on the 2-7/8" workstring. Ran in the well, worked into the 7" production casing stub and ran to 640'. Pulled out of the well and laid down the 6-1/4" bit. Made up the 7" casing spear/fishing tools on the 2-7/8" workstring. Ran in the well to 600', attempted in work into the 7" casing stub (pumped and rotated). Pulled out of the well and laid down the fishing tools and secured the well.
6/6/2014	Made up a 7" casing spear, a 5' 3-1/2" drill pipe pup joint, a 7" stop, a set of jars, drill collars, and an intensifier on the 2-7/8" workstring. Ran in the well to the top of the 7" casing stub at 600', engaged the casing stub. Jarred on the casing stub at 150,000 lb, moved up the hole 20' and secured the well.
6/9/2014	Jarred on the 7" production casing stub and pulled free. Pulled out of the well and laid down the fishing tools (recovered 107' of 7" production casing). Made up a 9-7/8" bit on the 2-7/8" workstring. Ran in the well and cleaned out from 500' to 601' and reverse circulated the well clean. Pulled out of the well and laid down the 9-7/8" bit. Made up a 10-3/4" casing scraper on the 2 -7/8" workstring. Ran in the well to 601' and reverse circulated the well clean. Pulled out of the well, laid down the 10-3/4" casing scraper and secured the well.
6/10/2014	Made up a 7" casing spear, a bumper sub, a set of jars, drill collars and an intensifier on the 2-7/8" workstring. Ran in the well, engaged the 7" casing and jarred at 150,000 lb to 180,000 lb with no movement. Released the casing spear, pulled out of the well, laid down the fishing tools and secured the well.
6/11/2014	Made up a 10-3/4" test packer on the 2-7/8" workstring. Ran in the well to 690', set the test packer and pressure tested below the packer to 600 psig for ten minutes. Pressure tested the tubing/casing annulus to 500 psig for ten minutes (All tests good). Released the 10-3/4" test packer, pulled out of the well and laid down the test packer and the (2) 4-3/4" drill collars. Moved in and rigged up the Schlumberger wireline unit. Made up the 10-3/4" USIT tool on wireline. Ran in the well to 700' and ran USIT log to the surface. Rigged down and moved out the Schlumberger wireline unit. Made up a 6-1/8" bit on the 2-7/8" workstring. Ran in the well to 692' (unable to go past the cut). Pulled out of the well and laid down the 6-1/8" bit. Made up a saw-tooth collar on the 2-7/8" workstring. Ran in the well and tagged fill at 1010'. Nippled up the PGSR and secured the well.
6/12/2014	The well was opened with 0 psig surface pressure on the tubing and the casing. Cleaned out fill from 1004' to 1068' and reverse circulated the well clean. Pulled out of the well and laid down the saw tooth collar. Ran in the well open ended to 1068', rigged up for the cement job and secured the well.
6/13/2014	Moved in and rigged up the HES cementing equipment. With the tubing tail at 1068', mixed and pumped 35 bbl of 14.8 ppg, Type III cement (with additives) and displaced with 2 bbl of NaCl brine. Pulled to 455' and reverse circulated with 1 bbl of returns to the surface. Pulled out of the well, laid down the excess workstring tubing and secured the well.
6/16/2014	The well was open with 0 psig surface pressure on the tubing and the casing. Ran in the well, tagged the top of the cement at 549' and pressure tested tubing/surface casing annulus to 500 psig for ten minutes (Test good). Pulled out of the well and rigged down the double gate BOPE. Ran in the well open ended to 549'. Moved in and rigged up the HES cementing equipment. With the tubing tail at 549', mixed and pumped 54.8 bbl of 14.8 ppg, Type III cement with cement returns to the surface. Pulled out of the well and laid down the 2-7/8" workstring tubing to 60'. Rigged up the HES cementing equipment, mixed and pumped 4 bbl of 14.8 ppg, Type III cement with returns to the surface. Rigged down and moved out the HES cementing equipment. Cleaned out the cellar. Cleaned the pump and the tanks. J. Boscoe, LAFD witnessed the installation of the cementing to the surface.
6/17/2014	Held a safety meeting with rig crews. Replaced the drilling line and rigged down the hoist. Loaded the Ensign #321 rig equipment.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
6/18/2014	Continued to load the Ensign #321 rig equipment and monitor the well.
2/6/2015	Moved in and rigged up the Rival #12 rig equipment. Raised the rig mast, spotted the mud pump, the waste bin and the BOPE.
2/9/2015	Bled off 40 psig from the well. Removed the top flange from 10-3/4" surface casing head. Nippled up the 11" 5M spool and double gate with 2-7/8" pipe rams and blind rams. Function tested the BOPE (Test good). Pressure tested the blind rams against the top of the cement plug at 5' below surface to 500 psig. Pressure bled down to 75 psig in 75 minutes. Installed riser spools above the BOPE. Rigged up a 4" flow line back to the waste pit. Picked up a 9-7/8" open jet bit on one 6-1/4" drill collar. Rigged up the power swivel and drilled out the cement plug from 5' to 59'. Circulated the well clean and secured the well.
2/10/2015	Opened the well with 7 psig on the surface casing. Cleaned out the cement from 59' to 140' and circulated the well clean. Rigged down the power swivel and laid down 3 joints of workstring tubing, the 6-1/4" drill collar and the 9-7/8" bit. Repalced the 6-1/4" drill collar for 4-3/4" drill collars. Rigged down the tubing tools and the rig floor. Removed the two spacer spools from the top of the double gate and secured the well.
2/11/2015	Rigged up the rig floor and the tubing tools. Pressure tested the 10-3/4" surface casing to 500 psig and bled down to 100 psig in 90 seconds. Made up four, 4-3/4" drill collars and the 9-7/8" open jet bit on the 2-7/8" workstring tubing. Picked up the power swivel, cleaned out the hard cement from 140' to 236' and circulated the well clean. Pulled out of the well, laid down the power swivel and secured the well.
2/12/2015	Opened the well with 0 psig surface pressure on the surface casing. Continued drilling out the cement inside the 10-3/4" surface casing from 236' to 362'. Circulated the well clean and pulled out of the hole. Removed the PGSR, inspected the bit and secured the well.
2/17/2015	Opened the well with 0 psig surface pressure on the 10-3/4" surface casing. Picked up four additional 4-3/4" drill collars for a total of eight drill collars. Ran in the hole and drilled out the cement with a 9-7/8" bit from 361' to 546'. Circulated the well clean and laid down the power swivel. Pulled the bit to 90' and secured the well.
2/18/2015	Opened the well with 0 psig surface pressure on the surface casing. Stood back eight, 4 -3/4" drill collars and the 9-5/8" bit. Made up a 10-3/4" 40.5# casing scarper on the 2-7/8" workstring. Ran in the hole to 546' and reverse circulated the well clean. Pulled out of the hole and laid down the 10-3/4" casing scraper. Made up a 10-3/4" Weatherford test packer on the 2-7/8" workstring. Ran in the hole, set the test packer at 532'. Pressure tested the 10-3/4" surface casing from 532' to the surface at 500 psig for 30 minutes (recorded on a test chart; good test). Pressure tested the surface casing below the test packer from 532' to the top of the cement at 546' to 300 psig for 20 minutes (recorded on a test chart; Bled to 233 psig). Pulled out of the hole and laid down the test packer. Ran in hole with a 9-5/8" bit and eight 4-3/4" drill collars on the 2-7/8' workstring. Drilled out the cement from 546' to 609', circulated the well clean and secured the well.
2/19/2015	Opened the well with 0 psig surface pressure on the 10-3/4" surface casing. Drilled out the cement from 609' to the top of the 7" casing stub at 710'. Tag witnessed by C. Knight, DOGGR. Pulled out of the well and laid down eight 4-3/4" drill collars and the bit. Made up a 10-3/4" casing scraper on the 2-7/8" workstring. Ran in the well with 2 stands of 2-7/8" workstring tubing and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

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Well Mission Adrian 5 A Sec. 34, T3N, R16W S.B.B.&M.
A.P.I. No. 03722309 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
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Start Date	Ops this Report (DOGGR)
2/20/2015	Opened the well with 0 psig surface pressure on the surface casing. Ran in the well with a 10-3/4" casing scraper. Tagged the 7" casing stub at 710' and reverse circulated the well clean. Pulled out of the well and laid down the casing scraper. Made up a 10-3/4" test packer on the 2-7/8" workstring. Ran in the well to 701'. Pressure tested below the test packer and pressure tested the 10-3/4" surface casing/top of cement from 701' to 710' at 222 psig (Bled to 167 psig in 20 minutes; Recorded on a test chart). Pressure tested the surface casing from 701' to the surface to 500 psig for 30 minutes (Recorded on a test chart; good test). Released the 10-3/4" test packer, pulled out of the well and laid down the 10-3/4" test packer. Made up a 10-3/4" PCR cement retainer on the 2-7/8" workstring. Ran in the the well, set the cement retainer at 698' COE. Pressure tested the tubing/casing annulus to 500 psig for 20 minutes (Recorded on a test chart; good test). Rigged down the working floor, rigged down the BOPE and secured the well.
2/23/2015	Opened the well with 0 psig surface pressure on the surface casing. Moved in and rigged up the Halliburton cementing equipment. Held JSA with the onsite crews. Attempted to get an injection rate below the cement retainer at 698'. Pressured up the tubing to 470 psig surface pressure and the pressure dropped to 422 psig in 5 minutes. Unable to pump below the cement retainer and pulled out of well. Made up a Weatherford 10-3/4" Cast Iron Bridge Plug on the 2-7/8" workstring. Ran in the well and tagged the top of the cement retainer at 697'. Set the cast iron bridge plug with the top at 695' (COE at 696'). Pulled out of the well with the running tool. Pressure tested the cast iron bridge plug to 350 psig for 10 minutes (Good test). Ran in the well open ended and tagged the top of the cast iron bridge plug at 695'. Pulled the workstring tail to 694'. Pumped 10 bbl fresh water ahead followed by 37 bbl of 14.8 ppg Type III cement with 35% BWOC Silica Flour, 5% BWOC Microlite and 0.5% BWOC Halad-322 followed by 2 bbl of fresh water. Pulled out of the well and laid down the excess tubing. Installed the surface casing head flange. Pressured the surface casing to 250 psig and secured the well.
2/24/2015	Opened the well with 0 psig surface pressure on the surface casing. Ran in the well opened with the 2-7/8" workstring tubing. Tagged the top of the cement plug at 410' and pulled out of the well. Installed a flange on the surface casing head and pressure tested the surface casing to 269 psig for 10 minutes (good test). Monitored the well for gas bubbles (no bubbles, witnessed by C. Knight, DOGGR). Ran in the well open ended to 409'. Rigged up the Halliburton cementing equipment and pressure tested the lines to 1500 psig. Pumped 5 bbl fresh water ahead followed by 39 bbl of 14.8 ppg Type III cement with 35% BWOC Silica Flour, 5% BWOC Microlite and 0.5% BWOC Halad-322 with cement returns to the surface. Pulled out of well and laid down the 2-7/8" workstring tubing. Topped off the well with 1 additional bbl of cement. Surface cement plug placement witnessed by Cliff Knight, DOGGR and Jennifer Boscoe, LAFD. Rigged down and moved out the Halliburton cementing equipment. Cleaned the workstring tubing, the rig floor and the tubing tools. Laid down the mast.
3/25/2015	Held a safety meeting with the rig crew. Monitored the well cellar with a gas scope and obtained a fire permit from Gas Co operations. No gas present in the surface casing or the well cellar. Cut off the 10-3/4" casing head at 5' below grade. Welded on the top plate with the Well Name, API # 03722309, LAFD #2982 and the date. J. Boscoe, LAFD and C. Knight, DOGGR witnessed and approved the operations.

FORM 103 SUBMIT IN DUPLICATE Δ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Southern California Gas Company FIELD ALISO CANYON

Well No. PORTER #12, Sec. 27, T. 3N, R. 16W, S.B. B. & M.

Date December 27, 1975 Signed P. S. Magruder Jr.
P. S. MAGRUDER, Jr.

P. O. Box 3249, Terminal Annex
Los Angeles, California 90051 Title Agent
(Address) (Telephone Number) (President, Secretary or Agent)

(213) 689-3561

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
12- 4-75	Bled off tubing and casing pressure through flow line 2700 psi to 600 psi. Using HOWCO, killed well with 200 barrels of 85#/cu.ft. brine-polymer mud. Circulated well free of gas cut mud. Well dead at 8:00 P.M.
12- 5-75	Moved in and rigged up California Production Service "M-20" rig, pump and shaker tank. Circulated bottoms up. Removed Christmas tree, installed B.O.P.E. Shut job down at 10:30 P.M.
12- 6-75	Tested B.O.P.E. with clear water as follows: Blind Rams @ 2800 psi) Pipe Rams @ 3000 psi)each test for 20 minutes - O.K. Hydril @ 2500 psi) Using nitrogen, tested as follows: Hydril @ 2200 psi) Pipe Rams @ 2500 psi)each test for 20 minutes - O.K. Blind Rams @ 2500 psi) Division of Oil and Gas declined to witness. Pulled out of packer at 6843'. Circulated bottoms up - 84.5#/cu.ft. returns. Pulled tubing out of hole. Laid down gas lift valves, 1/4" control line and safety equipment. Shut job down at 11:30 P.M.
12- 7-75	Rig and crew idle.
12- 8-75	Filled hole - 30 barrels. Installed packer testing plug in No-Go nipple and Hydrotested to 4500 psi. Removed test plug and ran production tubing. All tubing and doughnut Hydrotested to 4000 psi. Tubing landed with 15,000# weight on packer. Pulled 15,000# over weight of tubing to test latch. Removed B.O.P.E. and reinstalled Christmas tree. Tested between upper and lower seals on doughnut at 4500 psi. Tested Christmas tree at 4500 psi.

12- 8-75 (cont'd) Both tests for 20 minutes each - O.K. Displaced 85#/cu.ft. brine-polymer fluid with 198 barrels of lease salt water. Installed test plug in No-Go nipple and attempted to test packer and seals. Shut job down at 10:30 P.M.

12- 9-75 Using Archer-Reed, set test plug in No-Go and attempted to test packer and seals. Removed plug from well. Closed sliding sleeve and attempted to test packer and seals. Opened sliding sleeve and displaced lease salt water in well with 200 barrels of brine-polymer drilling fluid (85#/cu.ft.). Removed Christmas tree, reinstalled B.O.P.E. and shut job down.
NOTE: Pressure dropped when testing packer, 1900 psi - 1400 psi in 90 seconds.

12-10-75 Using clear water, tested as follows:

Blind Rams @ 2600 psi)
Pipe Rams @ 2600 psi) each test for 20 minutes - O.K.
Hydril @ 2000 psi)

Using nitrogen, tested as follows:

Blind Rams @ 2300 psi)
Pipe Rams @ 2500 psi) each test for 20 minutes - O.K.
Hydril @ 2100 psi)

Released tubing from packer and circulated bottoms up. Pulled tubing out of hole. Laid down safety valve and nipples. Made up Baker 4 3/4" Model "B" Lok-Set bridge plug on 2 3/8" tubing. Started in hole. Shut job down at 11:30 P.M.

12-11-75 Finished running in hole with bridge plug. Set plug at 6838'. Pulled out of hole with setting tool. Made up Baker 6 5/8" Full Bore cementer on 2 7/8" tubing. Set Full Bore at 4566'. Using Halliburton pump truck, pumped down tubing. Pumped fluid away at 5.5 cu.ft. per minute rate under 1000 psi. Bled pressure off tubing. Open valve on 9" casing and gauge reading 1000 psi. Bled to ZERO quickly. Applied 2000 psi to 6 5/8" casing - held for 20 minutes - O.K. Pulled out of hole with 6 5/8" Full Bore. Made up 4 3/4" Full Bore. Ran in hole on 2 3/8" - 2 7/8" tubing. Set Full Bore at 6818'. Tested casing and bridge plug under 2000 psi for 5 minutes - O.K. Reset Full Bore at 6781', obtained breakdown, 11 cu.ft. per minute rate at 1800 psi. Applied 2000 psi down annulus for 20 minute test - O.K. Released Full Bore and sjut job down.

12-12-75 Using Halliburton, spotted 3 sacks of sand on top of bridge plug at 6838'. Tagged top of sand at 6800'. Cleaned out to 6806'. Set Full Bore at 6786'. Obtained breakdown at 1600 psi, 10 cu.ft. per minute rate. Mixed 100 cu.ft. 118#/cu.ft. Class "G" cement slurry. Squeezed through holes at 6800'. Pumped 20 cu.ft. fresh water ahead, 5 cu.ft. fresh water behind. Started mixing at 1:04 P.M., cement in place at 1:32 P.M. Final pressure 1700 psi. Bled back 1 cu.ft. Calculate 94 cu.ft. cement outside 4 3/4" casing, 6 cu.ft. cement inside casing. Total displacement 207 cu.ft. Pulled out of hole. Made up 3 7/8" bit, 4 3/4" casing scraper and four 3 1/8" drill collars. Ran in hole and tagged top of cement at 6710'. Shut job down at 10:00 P.M.

12-13-75 Drilled out cement from 6710' to 6806'. Circulated hole clean. Pulled out of hole. Using McCullough, shot four holes at 6797' to 6798' (jet perforated) for WSO test. Shut job down at 8:30 P.M.

12-14-75 Rig and crew idle.

12-15-75 Ran in hole with Johnston tester for WSO test. Set packer at 6749', tail at 6765'. Opened tool at 11:00 A.M. very light blow - dead in 2" of water after 10 minutes. Closed tool at 12:04 P.M. and pulled out of hole - 19' fluid rise, mud. Chart Data, as follows:

No.1		No.2	
Depth 6753'		Depth 6757'	
Initial Hydrostatic	3854 psi	Initial Hydrostatic	3864 psi
Initial Flow	15.4 psi	Initial Flow	15.2 psi
Final Flow	15.4 psi	Final Flow	15.2 psi
Final Hydrostatic	3814 psi	Final Hydrostatic	3845 psi

WSO witnessed and approved by Larry Brite of the Division of Oil and Gas. Ran in hole with Baker 4 3/4" Full Bore cementer. Set at 6586'. Using Halliburton pump truck, obtained breakdown at 1800 psi at 9 cu.ft. per minute rate. Mixed 100 cu.ft. 118#/cu.ft. slurry, Class "G" cement. Squeezed through shot holes from 6797' to 6798'. Starting mixing at 7:08 P.M., cement in place at 7:46 P.M. Stopped pumping at 2100 psi. Closed in for 30 minutes. Final pressure 2400 psi. Bled back 2 cu.ft. Calculate 88 cu.ft. outside casing, 12 cu.ft. cement inside casing. Total displacement 214 cu.ft. Released Full Bore, backscuttled and started out of hole. Shut job down at 10:00 P.M.

12-16-75 Finished pulling out of hole. Made up 3 7/8" bit and 4 3/4" casing scraper on tubing. Tagged top of cement at 6635'. Cleaned out to 6806'. Circulated hole clean, pulled out of hole. Using McCullough, jet perforated four holes for WSO test (6796'-6795'). Attempted to apply 2000 psi to casing. Fluid going away at 1700-1800 psi. Made up 4 3/4" Full Bore. Ran in hole to 6586'. Shut job down at 9:30 P.M.

12-17-75 Set Full Bore at 6586'. Obtained breakdown under 2800 psi at 20 cu.ft. per minute rate. Mixed 172 cu.ft. 118#/cu.ft. Class "G" cement slurry (150 sacks). Squeezed through shot holes from 6795' to 6796'. Started mixing at 9:04 A.M. cement in place at 9:35 A.M. Pressure built up to 3000 psi, dropped to 1500 psi. Cleared holes with 30 cu.ft. mud. Waited four hours, obtained breakdown under 3250 psi at 12 cu.ft. per minute rate. Mixed 115 cu.ft. 118#/cu.ft. Class "G" cement slurry (100 sacks). Started mixing at 1:30 P.M. Cement in place at 2:00 P.M. 3200 psi while pumping. Slowed rate to 2 cu.ft. per minute rate after cleaning tool. Pressure dropped to 1500 psi. Built up to 2500 psi. Cleared holes with 30 cu.ft. mud. Waited four hours, obtained breakdown under 3500 psi at 14 cu.ft. per minute rate. Mixed 230 cu.ft. 118#/cu.ft. Class "G" cement slurry (200 sacks). Started mixing at 6:11 P.M. cement in place at 7:05 P.M.

12-17-75 (cont'd) Cleared holes with 30 cu.ft. mud. Pressure built up to 3000 psi at 12 cu.ft. per minute rate. Cleared tool, reduced rate. Pressure dropped to 1000 psi. Waited 3 minutes, pumping slowly under 1800-2100 psi. Total displacement, including mud, 244 cu.ft. Shut job down at 8:00 P.M.

12-18-75 Obtained breakdown under 2700 psi at 8 cu.ft. per minute rate. Reset Full Bore at 6461'. Mixed 115 cu.ft. 118#/cu.ft. Class "G" cement slurry (100 sacks). Squeezed through holes at 6795'-6796'. Started mixing at 8:23 A.M. cement in place at 9:04 A.M. Final pressure at 3600 psi. Bled back 2 cu.ft. Calculated 94 cu.ft. cement outside pipe, 21 cu.ft. cement inside pipe. Pulled out of hole. Made up 3 3/4" bit and 4 3/4" casing scraper. Ran in hole and tagged top of cement at 6540'. Shut job down at 4:30 P.M.

12-19-75 Drilled out cement from 6540' to 6809'. Cleaned out sand to 6825'. Circulated hole clean. Attempted to test casing under 2000 psi. Pressure dropped from 2000 psi to 1750 psi in 5 minutes. Unable to isolate leak. Started out of hole. Shut job down at 9:30 P.M.

12-20-75 Finished pulling out of hole with bit and scraper. Made up 6 5/8" Baker Full Bore cementer. Ran in hole on 2 7/8" tubing. Set at 4571'. Applied 2000 psi down tubing, testing 6 5/8" x 4 3/4" swage and 4 3/4" casing. Bled off very rapidly. Applied 2000 psi down annulus, testing 6 5/8" casing. Held firm for 22 minutes. Pulled out of hole, made up 4 3/4" Full Bore. Ran in hole and set at 6807'. Tested bridge plug and casing below 6800' under 2000 psi for 10 minutes - O.K. Reset Full Bore at 6775', obtained breakdown at 3000 psi - 6 cu.ft. per minute rate. Spotted 2 sacks of sand on top of bridge plug. Waited two hours. Tagged top of sand at 6802'. Reset Full Bore at 6460'. Obtained breakdown at 3200 psi, 7.5 cu.ft./minute rate. Mixed 100 sacks of Class "G" cement with 14% salt by weight of water, 118 cu.ft.119#/cu.ft. slurry. Squeezed through holes at 6795' to 6796'. Started mixing at 7:48 P.M. Unable to clear squeeze tool. Reached maximum pressure (4000 psi). Backscuttled at 8:20 P.M. Backscuttled 79 cu.ft. cement. Estimate 4-5 cu.ft. cement outside casing, 31 cu.ft. inside casing. Pulled 44 doubles. Shut job down at 10:00 P.M.

12-21-75 Rig and crew idle.

12-22-75 Finished pulling out of hole with Full Bore. Made upt bit and scraper. Ran in hole, tagged top of cement at 6462'. Drilled out of cement at 6754'. Cleaned out to 6825'. Started out of hole. Shut job down at 10:00 P.M.

12-23-75 Using Halliburton, pressure tested casing from surface to 6825' under 2000 psi for 35 minutes - O.K. Pulled bit and scraper out of hole. Using Dresser Atlas, ran Cement Bond Log. Recorded from 6830' to 5000' (wireline measurement). Released Dresser Atlas. Made up 6 5/8" casing scraper (positive), ran in hole to 4574'. Pulled 25 doubles. Shut job down at 8:30 P.M.

12-24-75 Finished pulling out of hole with scraper. Made up 6 5/8", 26#, Type "A" Gearhart-Owen casing patch. Ran in hole on 2 3/8"-2 7/8" tubing to 3650' (bottom of patch) 3618' to top. Using Go-International Wireline Service, set patch. Pulled tubing out of hole, laid down GO setting tools. Ran 30 doubles in hole. Shut job down at 3:30 P.M.

12-25-75 Rig and crew idle.

12-26-75 Ran in hole with bridge plug, retrieving tool. Using rig pump, tested casing under 1500 psi for 10 minutes - O.K. Released bridge plug at 6840'. Back-scuttled bottoms up and circulated hole free of gas. Pulled out of hole with bridge plug. Ran production tubing (see detail attached). Landed tubing with 12,000# weight on Baker "F-1" packer at 6843'. Pulled 16,000# over weight of tubing to test latch in packer....O.K. All tubing and doughnut Hydrotested to 4000 psi. Shut job down at 11:00 P.M.

12-27-75 Removed B.O.P.E. and reinstalled Christmas tree. Tested between upper and lower seals on doughnut at 4500 psi for 23 minutes - O.K. Tested Christmas tree at 4500 psi for 27 minutes - O.K. Displaced workover fluid with 191 barrels of lease salt water. Using Halliburton pump truck, tested packer, seal assembly and casing under 1500 psi for 20 minutes - O.K. Opened sliding sleeve at 6809'. Closed well in.
Released rig at 5:00 P.M.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter # 26, Sec 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00766 Name R. D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 14, 1991.

Signature R. M. Dowell

R. M. Dowell for R. D. Phillips

P. O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (213) 244-2680
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1991	
8-30	Moved in and began rigging up.
9-3	Finished rigging up. Removed 8" x 5000 psi xmas tree and installed BOPE.
9-4	Finished installing BOPE. Tested choke manifold, blind and pipe rams to 5000 psi, annular preventer to 2000 psi. BOPE test waived by Bruce Hesson of the D.O.G.
9-5	Worked tubing and released from packer. Circulated gas out of well. Pulled and measured 2-7/8" tubing out of well. Laid down production equipment from 2-7/8" tubing.
9-6	Finished laying down 2-7/8" tubing. 2-3/8" tubing had parted at 7793'. Left 3 joints of 2-3/8" tubing, CAMCO "D" nipple and seal assembly in well. Made up bridge plug without top cup. Ran in and set at 5909'. Circulated bottoms up.
9-7	Pulled out of hole Lifted BOPE. Removed tubing head and seal flange with casing jacks. Unlanded 6-5/8" slips and packing. Reinstalled BOPE. Jacked out one joint of 6-5/8" casing at 150,000 lbs.
9-9	Pulled and laid down 141 joints of 6-5/8" 24# innerstring plus one cut off joint and seal assembly. Picked up 9-5/8" swab cup mandrel with 2 up cups and ran in hole on one joint of 2-7/8" tubing. Tested BOPE and spools to 1500 psi for 15 minutes. Started running in well with 2-7/8" tubing.

DOG 1/28/92

OG103 (6/91/GSR1/5M)

9-10 Ran in well with 2-7/8" tubing. Pulled out and laid down 2-7/8" tubing (189 joints total). Picked up kelly and swivel. Made up and ran in with packer retrieving tool, 8-1/2" millshoe, x-over, 2 junk baskets, x-over, bumper sub, jars, four 4-3/4" drill collars and 167 joints of 2-7/8" drill pipe to 5500'.

9-11 Finished running in hole with 2-7/8" drill pipe. Tagged top of packer at 5997'. Milled 9-5/8" packer for four hours while pumping at 5 Bbls/min. Packer milled free. Pulled out of hole to kill string.

9-12 Finished pulling out of well. Retrieved Baker Model "F-B1" packer with mill out extension and Baker "R" nipple. Made up bottom hole assembly and ran in hole with overshot with basket grapple, x-over, two junk baskets, x-over, bumper sub, jars, six 3" drill collars, accelerator, two x-overs, 73 joints of 2-3/8" drill pipe, x-over, and 167 joints of 2-7/8" drill pipe. Tagged tubing fish at 7755'. Worked lip guide over fish and picked up. Jarred 5 times at 100,000 lbs (38,000 lbs over string wt.). Picked up to 110,000 lbs and tubing came free. Started out of hole while dragging 10,000 lbs and tubing came free. Started out of hole while dragging 10,000 lbs over string weight.

9-13 Pulled out of well. Broke down tools. Recovered 4-1/2 joints of 2-3/8" tubing, CAMCO "D" nipple, Baker seal assembly (13 seals) and production tube. Made up and ran in hole with packer retrieving tool, 4" mill shoe, extension, x-over, drive sub, 2 junk baskets, x-over, bumper sub, jars, six 3" drill collars, x-over, 73 joints of 2-3/8" drill pipe, x-over and 80 stands of 2-7/8" drill pipe.

9-14 Tagged packer at 7902'. Started milling on 5" 18# Baker Model "D" packer. Milled for 8 hours on pieces of rubber and slips. Mill appeared to be worn out. Pulled 60 stands.

9-16 Pulled out of well. Drive sub had jumped box at mill shoe extension and was left in well. Made up and ran spear on drill pipe. Speared into fish at 7902'. Pulled out of liner with fish. Pulled to kill string.

9-17 Pulled out and recovered mill shoe. Laid down spear. Made up packer retrieving tool and mill shoe #2. Ran in and milled packer for 1-1/2 hours. Worked packer out of liner. Pulled to kill string.

9-18 Pulled kill string. Laid down packer and fishing tools. Made up and ran bit and 9-5/8" casing scraper to top of liner at 6013'. Started out of well.

9-19 Pulled out and laid down 9-5/8" scraper. Made up 4-1/8" bit and scraper. Ran in and tagged fill - 8139'. Cleaned out to 8159'. Unable to clean out junk. Circulated well clean. Started out of well.

9-20 Pulled out with bit and scraper. Made up 4" mill shoe. Ran in and cleaned out from 8159' to 8195'. Pulled to top of perforations.

9-21 Ran back to bottom. Cleaned out to 8198'. Circulated clean. Pulled out of well. Made up 5" RTTS tool. Ran in to 7580'. Could not set RTTS packer.

9-23 Pulled out of hole. Changed out first RTTS tool which had junk marks on it. Ran in and set RTTS at 7550'. Tested casing to 1500 psi for one hour. Started out of well.

9-24 Pulled out and laid down RTTS packer. Rigged up wireline. Ran Gamma/Neutron/Collar log in 5" 18# casing. Pulled out of well. Set drillable retainer on wireline at 7535'. Pulled out of well. Tested plug to 1000 psi. Made up perforating gun. Ran in and shot four 3/8" holes at 7513'. Rigged down wireline. Made up RTTS tool with 30' of 2-3/8" tubing tail. Started in the well.

9-25 Ran in well. Located retainer at 7535'. Set RTTS tool. Changed well fluid over to 2% KCL water. Dumped one sack of 8-12 sand down tubing. Waited one hour. Tagged top of sand at 7527'. Attempted to set RTTS packer at 7514'. Packer would not set. Circulated and backscuttled by RTTS packer. Unable to set packer. Closed pipe rams. Tested holes at 7513' to 1500 psi.

9-26 Pulled out of well. Changed out RTTS tools. Ran in and tagged top of sand at 7523'. Set packer at 7517'. Rigged up pump truck. Attempted to break down holes. Pumped 60 cu.ft. of 12% HCl/3% HF acid. Established final injection rate of 4 cu.ft./min at 2400 psi. Cleared holes of acid by 10 cu.ft.

9-27 Pumped 100 cu.ft. of 12%HCI/3%HF acid. Established final injection rate of 5 cu.ft. per minute at 2500 psi. Released packer. Pulled out of well. Rigged up wireline. Ran in and shot 4 holes 7513' to 7514'. Started in with RTTS tool to kill string.

9-28 Finished running in well. Set packer at 7480' with tubing tail at 7516'. Rigged up cementers. Pressure tested surface lines and connections to 3000 psi. Pumped 95 cf 12% HCl/3% HF acid and displaced with 80 cf KCl. Closed circulating valve and injected acid. Final injection rate was 12.5 cf/min at 2100 psi. Pulled packer up to 7230' with tail at 7266'. Pumped 30 cf of 6% HCl/1.5% HF acid followed by 28 cf fresh water, then 58 cf class "G" cement with 0.5% CFR-2 and 0.6% Halad 9. Displaced with 28 cf fresh water and 108 cf KCl. Closed circulating valve and squeezed 54 cf away through holes at 7513'. Final rate: 0.25 Bbl./min and 2550 psi. Left 4 cf cement in liner (40 linear feet). Held 2550 psi on casing for 4 hours (no bleed off). Released packer and circulated bottoms up to equalize fluid columns. Started pulling out of hole.

9-30 Pulled out of well. Made up 4-1/8" bit. Ran in and located top of cement at 7351'. Circulated bottoms up. Closed pipe rams and pressure tested squeeze holes at 7513' to 1600 psi. Lost 100 psi in one hour. Repressured to 1600 psi, lost 30 psi in 30 minutes. Pulled 2 stands.

10-01 Tagged 4' of fill. Backscuttled well clean. Pressure tested squeeze holes at 7513' to 1600 psi for two hours. No pressure bleed off. Changed fluid over to 72 pcf polymer. Backscuttled sand from plug. Drilled retainer at 7535'. Drilled and worked retainer to 7627'.

10-02 Drilled and worked retainer to 7659'. Pulled out of well. Changed bit and ran in well. Drilled retainer to 7722'. Retainer fell free. Ran in to 8195'. Pulled to top of perforations.

10-03 Ran in to 8195'. Circulated cement out of well. Pulled out and made up LPRN test tool. Picked up 1500' of 2-3/8" 8RD tubing. Ran in to 7485'. Installed 2" lines to manifold and tested to 4000 psi.

10-04 Set packer at 7485' - tail at 7515'. Opened LPR tool with 1500 psi annular pressure. Flowed well to Baker tank (22 Bbls fluid). Changed flow to Gas Company withdrawal line. Started flowing at 8MM cf/day and increased to 15MM cf/day. Flowed well for 12 hours then shut well in.

10-05 Rigged up loggers. Ran temperature log to 8150'. Bottom shieve broke and high stranded line. Pulled out of well. Rigged down loggers.

10-06 Rigged up loggers. Ran in to 8100'. Noise logged to 200'. Log indicated no gas movement above shoe. Pulled out of hole. Rigged down loggers. Pumped 40 bbls down pipe to kill well. Closed LPR tool. Pumped out circulating sub with 2300 psi pipe pressure. Released packer.

10-07 Circulated gas out of well. Pulled out of well. Laid down and loaded out LPR tools. Made up 4-1/8" bit. Ran in to 8195'. Backscuttled well clean. Started out of well.

10-08 Pulled out of well. Laid down 2-3/8" drill pipe and drill collars. Rigged up loggers. Made up Otis "WD" 9-5/8" x 5" bore packer. Ran in and set packer at 5840'. Loaded out loggers. Made up test seals. Ran in well and latched into packer. Pulled 20,000 lbs. over string weight to check latch. Tested packer to 1500 psi for 40 minutes. Pulled out of well laying down drill pipe.

10-09 Laid down drill pipe, drill collars, and kelly. Changed pipe rams to 6-5/8". Picked up and ran 6-5/8", 24#, LT&C casing while testing to 4000 psi and monitoring torque make-up on all connections. Ran pipe to 3950'.

10-10 Finished running 6-5/8" casing. Latched into packer. Pulled 20,000 lbs over. Set 10,000 lbs on packer. Tested to 1100 psi. Released from packer. Changed fluid over to double inhibited 2% KCl water. Landed 6-5/8" casing in packer with 10,000 lbs.

10-11 Picked up bridge plug. Could not get slips into 6-5/8". Changed out bridge plug. Picked up BOPE. Installed slips with 10,000 lbs weight on packer, 116,000 lbs weight on slips. Cut off 6-5/8" casing. Installed packing, seal flange and tubing head. Tested tubing head to 5000 psi. Changed pipe rams to 2-7/8". Tested BOPE to 1000 psi. Pulled bridge plug. Laid down 2-3/8" tubing. Picked up kill string of 2-7/8" tubing.

10-12 Pulled kill string. Ran and set 6-5/8" Otis "WB" packer on wireline at 5820'. Made up production equipment. Tested 2-7/8" tubing to 5000 psi while running in well. Latched into packer. Spaced out with 14,000 lbs weight on packer, 24,000 lbs on donut. Tested packer to 1000 psi.

10-14 Installed equalizing back pressure valve. Removed BOPE. Installed x-mas tree and tested with oil to 5000 psi. Rigged up wireline and opened sliding sleeve. Rigged down wireline. Changed over through sliding sleeve by pumping 200 Bbls of double inhibited 2% KCL water down backside. Released rig.

Cumulative Fluid Loss: 117 Bbls HEC Polymer

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 Sec 28, T 3N, R 16W S.B. B. & M.
A.P.I. No. 037-00713 Name R. D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date December 17, 1992

Signature J. P. Wesson for R. D. Phillips

P. O. Box 3249 Los Angeles, CA 90051-1249 (213-244-2664
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date 1992	
11-30	Moved in. Rig up.
12-01	Rigged up slickline unit. Opened sliding sleeve at 5756'. Tubing pressure at 2830'. Casing pressure at 2800 psi.
12-02	Pressure tested lines to 3500 psi. Killed well with 255 Bbls of 72#/cf NaCl/polymer. Installed 11" x 5000# Class III BOPE. Tested blind rams and choke manifold to 5000 psi. Bled off pressure. Removed back pressure plug. Filled well with 60 Bbls. Circulated well. Tested 2-7/8" pipe rams to 5000 psi. Tested bag to 3000 psi. Circulated well.
12-03	Circulated well. Released from Otis packer at 5823'. Pulled 2-7/8" tubing. Ran and set Baker Model "C" bridge plug at 5770'. Pulled out of well. Removed tubing head and seal flange. Removed BOPE.
12-04	Unlanded 6-5/8" casing. Removed slips. Re-installed BOPE. Unlatched from Otis packer at 5840'. Pulled and laid down two joints of 6-5/8" casing. Top pin appeared undersized and joints were not made up tight. Circulated 63#/cf KCl water out of well.
12-05	Circulated well (fluid coming back gas cut). Circulated well adding defoamer to system. Pulled up and checked next joint of 6-5/8" 24# K-55 casing. Connection tight. Latched into packer at 5840'. Pressure tested casing and seals to 1000 psi. Released from packer. Changed annulus over to 3% KCl water. Latched into packer. Pulled 20,000 lbs over string weight to check latch. Set 15,000 lbs on packer. Pressure tested seals, packer and casing to 1500 psi for 20 min.

DOG 1/12/93

OG103 (6/91/GSR1/5M)

12-07 Landed 6-5/8" casing with 10,000 lbs on packer at 5840' and 110,000 lbs on slips. Ran and set Baker Model C bridge plug at 54'. Installed seal flange and tubing head. Pressure tested seal flange and tubing seals to 5000 psi (held o.k.). Pressure tested BOPE to 2000 psi. Pulled bridge plug from 45'. Ran in well with Baker retrieving tool to 5800'.

12-08 Circulated well at 5800'. Pulled Baker Model C bridge plug. Ran production string; Otis guide shoe, two Otis seals, one joint of 2-7/8" tubing, Otis XN NoGo 2.205" ID, one joint of 2-7/8" tubing, Otis XD sliding sleeve, one joint of 2-7/8" tubing, MMA gas lift mandrel. Externally tested tubing collars to 5000 psi. Spaced out tubing string. Landed 12,000 lbs on packer at 4823' and set 25,000 lbs on tubing hanger. Pressure tested 6-5/8" casing to 2500 psi for 20 minutes with no pressure bleed off or fluid flow through tubing. Pulled dummy valve from mandrel at 5724'. Ran and set 1-1/2" pump-out valve (set at 2700 psi) in mandrel. Opened sliding sleeve at 5759'. Shut in well.

12-09 Installed and tested xmas tree to 5000 psi. Changed well over through Otis sliding sleeve at 5759' with 3% KCl water, treated with HIB 19, Ucarcide Biocide, and COS-oxygen scavenger. Rigged down. Released rig.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #74, Sec. 28, T 3N, R 16W, S.B. B. & M.
A.P.I. No. 037-21357 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date August 17, 19 81

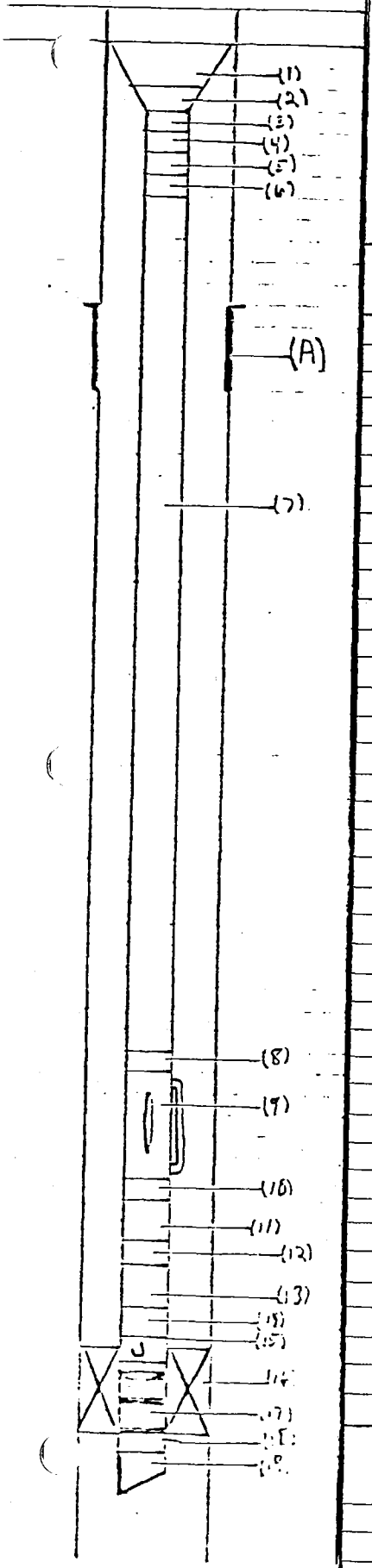
Signature P.S. Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99950 was issued to seal off leak in stage collar with casing patch.
1981	
8-07	1st Day. Moved CPS #D-4 on location. Rigged up and circulated well for 2-1/2 hours.
8-08	2nd Day. Removed xmas tree and installed BOPE. Pressure tested blind rams, pipe rams and manifold with water at 4000 psi for 20 minutes. Tested Hydril at 3000 psi for 20 minutes. Division of Oil and Gas was called but did not witness test. Unjayed from packer. Removed tubing hanger. Circulated for 2 hours. Started out of well.
8-10	3rd Day. Finished pulling out of well. Ran in well with bit and casing scraper to 7370'. Circulated well clean. Pulled out of well. Ran collar log 2623' to 2917', stage collar located at 2746'-2749'.
8-11	4th Day. Changed to chamfered collars. Mc Cullough ran casing inspection log and internal caliper logs from 5000' to 1000'. Picked up Pengo casing patch and ran to 2750'.
8-12	5th Day. Set Pengo patch top at 2726', bottom 2773'. Pulled out of well. Ran in hole with stab in and seals. Tested packer and patch with 1500 psi for 20 minutes. Ran in well hydrotesting tubing for completion.
8-13	6th Day. Spaced out and checked latch with 30,000# pull over weight of tubing. Landed tubing with 10,000# on packer. Removed BOPE and installed xmas tree. Tested seals and xmas tree with 5000 psi. Changed from polymer completion fluid to lease salt water. Released rig at 10 P.M. 8-13-81.

WELL PROFILE



OPERATOR So. Calif. Gas Co.

WELL # IW 74

FIELD Aliso Canyon

COUNTY Los Angeles

STATE California

DATE August 17, 1981

☐ NEW COMPLETION ☒ WORKOVER

	CASING	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE					
WEIGHT					
GRADE					
THREAD					
DEPTH					

ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	K.B.	19.50	
2.	Doughnut	.60	20.10
3.	Pup joint	1.00	21.10
4.	Pup joint	4.10	25.20
5.	Pup joint	8.10	33.30
6.	1 joint	30.79	64.09
7.	234 joints	7270.05	7334.14
8.	Pup joint	4.10	7338.24
9.	Otis landing nipple, 2.350 I.D.	1.11	7339.35
10.	Otis annular flow safety system, 2.313 I.D.	7.67	7347.02
11.	Otis heavy wall blast joint, 2.375 I.D. 3.668 O.D.	19.92	7366.94
12.	Otis "XN" NO-GO nipple, 1.791 I.D.	1.29	7368.23
13.	Otis heavy wall blast joint, 2.375 I.D. 3.668 O.D.	9.82	7378.05
14.	Cross-over 2-7/8" x 3-1/2"	.78	7378.83
15.	Otis "J" latch	1.24	7380.07
16.	Otis 8-5/8" Perma-Trieve packer, 4.00 I.D., 7.50 O.D.	4.20	7384.27
17.	Otis seal unit (3), 3.00 I.D., 4.04 O.D.	3.00	7387.27
18.	Otis production tube, 3.00 I.D, 3.96 O.D.	2.23	7389.50
19.	Otis mule shoe guide, 3.00 I.D, 3.96 O.D.	1.00	7390.50
	A Top of patch 2726', bottom of patch 2773' Pengo 8-5/8" casing patch		

A. Cyn well File

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well IW #55, Sec. 28, T 3N, R 16W, S.B. B. & M.
A.P.I. No. 037-21353 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date October 7, 1980.

Signature P S Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, Cal. 90051 (213) 689-3561
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1980	MWO #99900 was issued to repair leak in stage collar at 6,586'. Subsequent work indicated a shoe leak which also was repaired as part of this job.
7.16.	Moved in California Production Service Rig #D-4 and started rigging up.
7.17.	Continued rigging up. Increased density of polymer completion fluid to 82#/cu.ft. Removed xmas tree. Installed BOPE.
7.18.	Pressure tested blind rams, pipe rams and manifold to 4,000 psi with water for 20 minutes. Pressure tested Hydril to 3,000 psi with water for 20 minutes. Released tubing from packer. Installed bit guide. Ran in hole with bridge plug.
7.19.	Bridge plug stopped at 5,115'. Found top rubber damaged. Ran 7 5/8" bit and casing scraper to 7,850'.
7.20.	Rig and crew idle.
7.21.	Ran and set bridge plug at 6,650'. Equalized 10 sacks of sand. Waited for two hours and located sand at 6,636'. Ran fullbore. Located top of sand at 6,625'.
7.22.	Circulated out polymer with lease salt water. Set fullbore at 6,515'. No breakdown. Pulled out of well. Ran 300' of 2 7/8" tubing below retainer. Equalized 50 cu.ft. 12% HCL and 3% HF acid at 6,586'. Set packer at 5,988'. Held 2,500 psi on casing for 40 minutes. Reversed out acid.

OG103 (5-79-DWRR-15M)

7.23. Checked sand at 6,621', stage collar at 6,601'. Shot four 1/2" holes at 6,606'. Ran retrievable retainer with 420' tubing tail. Obtained breakdown with 2,500 psi at 12 cu.ft./minute. With tail at 6,609', equalized 100 sacks class "G" cement plus 0.75% D-65, mixed at 116#/cu.ft. Pulled 420' and reversed out. Set fullbore at 5,769' with tail at 6,189'. Squeezed 3 cu.ft. cement out of holes. Held 2,500 psi for 10 minutes. Ran 7 5/8" bit and casing scraper.

7.24. Drilled out cement from 6,342' to 6,621'. Pressure tested holes at 6,606' with 2,000 psi for 20 minutes.

7.25. Ran retrieving tool. Changed from lease water to polymer. Recovered bridge plug.

7.26. Ran tester and set packer at 7,822'. Packer would not hold.

7.27. Rig and crew idle.

7.28. Ran new packer and set at 7,821'. Tested lines with 4,000 psi. Tool open from 8:40 am to 11:45 am. Rate 12,000,000 cu.ft./day. Ran Noise log from 7,797' to 6,000' which indicated gas leakage.

7.29. Ran in with jars, drill collars and "J" latch. Jarred packer free. Pulled out of well with packer.

7.30. Ran junk basket to 8,000'. Ran and set bridge plug at 7,925'. Ran retrievable retainer with 2-7/8" tubing tail.

7.31. Set retainer at 7,684'. Tried to obtain breakdown with 3,000 psi - pressure bled off 100 psi in 10 minutes. Equalized 50 cu.ft. 12% HCL and 3% HF acid. Set retainer. With 1,000 psi on casing, obtained breakdown at 2,200 psi and 20 cu.ft. minute.

8.01. Set drillable retainer at 7,850'. Displaced 100 sacks of latex cement out holes with 2,200 psi clearing holes. Mixed 75 sacks of self-stress cement. Displaced 100 cu.ft. through holes with final pressure of 3,000 psi (total volume 115 cu.ft.).

8.02. Ran in well with 7 5/8" mill, two junk subs and four 4 3/4" drill collars. Milled retainer at 7,850' and cement to 7,860'.

8.03. Rig and crew idle.

8.04. Milled junk and cement from 7,860' to 7,924'. Pressure tested 8 5/8" casing with 2,000 psi for 25 minutes. Noise log malfunctioned.

8.05. Ran Noise log from 7,840' to 6,800'. Ran junk mill and recovery tool and milled junk from 7,919' to 7,921'.

8.06. Ran 7 5/8" junk mill with two junk subs on four 4 3/4" drill collars and milled on junk and bridge plug from 7,925' to 7,930'. Cleaned out to 8,200'. Hydraulic tubing tongs failed. Secured well at 9:00 am.

8.07. Ran tester. Set packer at 7,869' with tail to 7,878'. Pressure tested lines to 4,000 psi with water. Flowed well clean. Ran Noise log from 7,690' - 6,800' which indicated gas movement,

8.08. Set packer at 7,950' with tail at 7,963'. Pressure tested lines to 2,250 psi. Flowed well clean. Ran Noise log from 7,900' to 6,800' which indicated gas movement.

8.09. Ran bridge plug and set at 7,865'. Ran tubing to 7,865'. Displaced 82#/cu.ft. brine-polymer with waste lease salt water.

8.10. Rig and crew idle.

8.11. (2) Shot four 1/2" jet holes from 7,850' to 7,851'. Set cement retainer at 7,800'. Obtained breakdown of 13 cu.ft./minute at 2,800 psi. Pumped 20 cu.ft. 12% HCL and 3% HF acid ahead of 10 cu.ft. water, followed by 111 cu.ft. PCF self-stress cement, 10 cu.ft. water and 92 cu.ft. hole fluid. Stabbed into retainer and displaced with 258 cu.ft. hole fluid, leaving 15 cu.ft. cement inside casing with 96 cu.ft. out holes at 7,850' at a final pressure of 2,600 psi.

8.12. Ran in hole to 7,800' and located top of retainer at 7,801'. Milled on retainer and cement inside 8 5/8" casing to 7,858'.

8.13. Pressure tested with 2,000 psi for 10 minutes. No leakage. Ran and set packer at 7,831'. Opened test tool and recovered no fluid. Ran Noise log from 7,800' to 6,800'.

8.14. Ran in well with junk mill. Located bottom at 7,859'. Changed from salt water to polymer. Milled cement and bridge plug to 7,865'. Milled junk at 8,200'. Circulated well clean.

8.15. Ran and set packer at 7,956'. Pressure tested all lines to 4,000 psi with water. Flowed well clean. Ran Noise log which indicated gas leak behind casing. Bled down tubing via Gas Company line to 500 psi. Bled remaining pressure to Baker tank. Dropped bar, opened backscuttle valve and reverse circulated for two hours.

8.16. Bled off pressure on annulus. Removed pitcher nipple flow line. Set bridge plug at 7,862'. Located bridge plug with tubing at 7,862'. Pulled up to 7,830' and pressured up to 2,000 psi, lost 50 psi in 10 minutes.

8.17. Rig and crew idle.

8.18. (3) Changed over from polymer brine to lease salt water. Shot four holes at 7,834' and four holes at 7,854' with 4" casing gun. Set retainer on wire line at 7,843'. Made up stab-in tool and ran in to 7,843'. Stabbed into retainer and pressured up to 2,000 psi. Pressure bled to zero in 1 minute.

8.19. Stabbed into retainer. Obtained nearly full returns through upper holes at approximately 1.5 cu.ft./minute at 1,400 - 1,900 psi. Displaced 60 cu.ft. of 12% HCL and 3% HF acid inhibited with HAI-75 to 20 cu.ft. above retainer. Squeezed acid into formation with 2,000 psi maximum without breakdown. Increased pump pressure to 2,400 psi. Pumped at 15 gallon/minute and obtained 1 gallon/minute returns. Pressured up on annulus to 1,500 psi. No breakdown or pressure loss. Pumped down tubing. No breakdown. Able to pump in at 3,000 psi. Squeezed 30 cu.ft. acid at 2,600 psi. No breakdown. Squeezed 50 sacks class "G" cement and 0.6% CFR-2 and 0.5% Halad 9 at final pressure of 2,300 psi. Squeezed 75 sacks, 100 sacks, 125 sacks in three stages at final pressure of 2,500 psi. Bled down to 2,100 psi.

8.20. Unable to stab into retainer. Equalized 100 gallons acid above retainer and pulled out of well. Ran in with retainer with 10' tail. Set packer at 7,767' and established breakdown of 3 bbls/minute at 2,700 psi. Pumped 20 cu.ft. freshwater, 75 sacks class "G" cement, 10 cu.ft. freshwater, displaced to retainer. Closed bypass, squeezed until cement at bottom of retainer. Staged six times with final pressure of 2,600 psi with 76 cu.ft. away.

8.21. Pulled retainer out of well. Ran 7 5/8" bit with two junk subs and casing scraper. Drilled out cement from 7,735' to retainer at 7,840'. Pressure tested to 2,000 psi. Drilled on retainer to 7,844'.

8.22. Ran in well with 7 5/8" junk mill and milled to 7,858'. Circulated well clean. Closed pipe rams and pressure tested to 2,100 psi with rig pump. Bled off 150 psi in 20 minutes.

8.23. Ran in well with retainer to 7,857'. Equalized 100 gallons of 12% HCL and 3% HF acid. Pulled retainer to 7,770'. Pressure tested to 2,000 psi but unable to obtain breakdown. Ran to 7,808' and set retainer. Pressure to 1,700 psi and attempted to breakdown by pumping down tubing - noticed communication. Restabbed into retainer - still had communication. Retainer held 2,300 psi with no pressure loss. Backscuttled. Hydrotested tubing to 5,000 psi. No leaks.

8.24. Rig and crew idle.

8.25. Obtained breakdown with 2,900 psi at 3 cu.ft./minute. Equalized 150 gallons acid at bottom of stinger and obtained breakdown with 2,800 psi at 5 cu.ft./minute. Pumped 20 cu.ft. acid, 50 sacks cement, 10 cu.ft. fresh water and squeezed 40 cu.ft. away with final pressure of 3,000 psi.

8.26. Located retainer at 7,802'. Milled on retainer to 7,803' and drilled out cement to 7,858'. Pressure tested casing to 2,200 psi. Ran Audio Noise log. Pressure tested casing to 2,150 psi for 20 minutes. No pressure loss.

8.27. (a) Shot 1/2" holes at 7,833'. Ran in well with retainer on tubing to 7,858'. Equalized 15 cu.ft. of acid. Set retainer at 7,800'. Squeezed 4 cu.ft. at 2,500 psi to establish breakdown. Pulled out of retainer. Circulated 24 cu.ft. acid to stinger. Stabbed into retainer and squeezed 14 cu.ft. at 2,500 psi (1 cu.ft./minute).

8.28. Established breakdown with 2,100 psi - 5 cu.ft./minute. Mixed and pumped 20 cu.ft. acid, 50 sacks cement, followed by 10 cu.ft. fresh water. Squeezed away at 2 cu.ft./minute. Final pressure 2,700 psi, after pumping away 45 - 50 cu.ft. Ran in with junk mill, junk subs and drill collars to 7,750'.

8.29. Milled retainer from 7,800' to 7,858'. Pressure tested casing to 2,100 psi for 10 minutes. No pressure loss. Ran Audio Noise log which showed very little gas movement.

8.30. Ran in with junk subs and four drill collars. Located fill at 7,858'. Changed over to polymer brine. Milled on junk from 7,858' to 7,860'.

8.31. Rig and crew idle.

9.01. Rig and crew idle.

9.02. Milled out bridge plug from 7,862' to 8,200'. Pumped 100 bbls of 86#/cu.ft. Calcium Chloride water to weight up system to 83#/cu.ft.

9.03. Ran in well with tester and set packer at 7,963'. Pressure tested choke manifold and lines to 4,000 psi with water. Packer would not hold. Changed packer and ran in well to 7,945'.

9.04. Pressure tested manifold and lines to 4,000 psi. Set packer at 7,953'. Flowed well to clear tubing. Shut in well with 2,750 psi. Ran Audio Noise log. Gas leaked through safety valve and pressure built to 300 psi. Bled down pressure and changed safety valve. Pressured up tubing to 2,500 psi. Safety valve leaked. Bled down tubing. Released packer and pulled to 2,000'.

9.05. Changed shut-in tool and ran in well with packer to 7,951'. Pressure tested safety valve and lines to 4,000 psi. Flowed tubing until cleared of fluid. Flowing tubing pressure at 2,600 psi, shut in pressure at 2,750 psi. Ran Noise log. High noise at bottom. Tubing pressure started to increase and finally stabilized at 3,275 psi. Possible tubing leak. Bled tubing down to Baker tank.

9.06. Ran Noise log. No noise detected. Released packer and observed no fluid drop in the annulus. Backscuttled and pulled out of well. Rigged up hydrotester and tested tubing going in well to 5,000 psi. No tubing leak detected. Packer at 7,803'.

9.07. Rig and crew idle.

9.08. Pressure tested surface lines and safety valve to 4,000 psi. Ran Audio Analyzer log which indicated gas movement. Filled tubing. Pulled packer free and circulated well clean.

9.09. Ran and set drillable bridge plug at 7,820'. Made up 4" OD, four shots per foot gun, three shots fired at 7,800', two shots fired (5) at 7,600'. Redressed gun and reshot at 7,800' and 7,600'. Total seven holes at 7,800' and six holes at 7,600'. Located bridge plug at 7,806'. Changed over from polymer fluid to lease salt water. Made up 8 5/8" drillable retainer on tubing and ran in well.

9.10. Located bridge plug at 7,805'. Set retainer at 7,750'. Pressured up annulus to 1,500 psi to check packer. Obtained breakdown at 2,600 psi at 10 gallons/minute while holding 1,500 psi back pressure. Mixed and displaced 35 gallons diesel, 450 gallons Furfuryl mixture, 110 gallons diesel and 80 gallons methanol. Displaced by 27.5 bbls lease water to bottom of tubing. Stabbed into retainer and squeezed 14 barrels with final pressure of 2,940 psi at 8 gallons/minute. Pulled out of retainer. Bled down tubing. Pulled to 7,630'. Backscuttled well clean. Recovered 1 bbl Furfuryl.

9.11. Ran and set retainer at 7,545'. Obtained breakdown at 13 cu.ft./minute with 2,900 psi. Pumped 7 cu.ft. diesel, 88 cu.ft. Furfuryl mixture, 13.5 cu.ft. diesel and 13.5 cu.ft. Methanol and displaced lead diesel to bottom of stinger with 123 cu.ft. lease water. Squeezed 56 cu.ft. and approximately 28 cu.ft. of Furfuryl into formation. Final pressure 3,300 psi. Pumped 52 cu.ft. to balance Furfuryl. Pulled out of well. Made up 7 5/8" junk mill, two junk subs, four 4 3/4" drill collars and ran in hole to 5,960'.

9.12. Located fill at 7,350'. Drilled out to top retainer at 7,545'. Retainer was moving down well. Worked pipe and circulated out Furfuryl solids. Drilled and worked retainer down well to top of bottom retainer. Retainer went down well. Drilled to 7,770'.

9.13. Changed 7 5/8" mill. Closed pipe rams and tested shot holes to 2,000 psi for 15 minutes. Circulated salt water out of well with polymer drilling fluid. Drilled on plug and worked down to 8,124'.

9.14. Rig and crew idle.

9.15. Changed mill. Dropped mill, junk subs and four 4 3/4" drill collars in well. Ran in well with 2 7/8" tubing and screwed into drill collars. Milled on bridge plug to 8,193'. Pulled out of well and ran in with mill and casing scraper.

9.16. Circulated bottoms up. Pressure tested all lines to 4,000 psi with water. Set packer at 7,950'. Flowed well clean, shut-in pressure of 2,700 psi. Ran Audio Log from 7,798' to 4,000' which showed gas leakage.

9.17. Ran and set packer at 7,950'. Pressure tested all lines to 4,000 psi. Open tester 3:50 pm and flowed well with 1,700 psi for 15 minutes. Shut well in with 2,700 psi. Ran Audio Analyzer log from 7,900' to 5,000', which indicated no gas movement.

9.18. Circulated gas cut drilling fluid out of well. Ran packer on wire line and set at 7,950'. Made up and ran casing patch to 6,564' with bottom at 6,606'.

9.19. Ran in well with locator and two seals. Pressure tested seals and packer to 1,500 psi for 15 minutes. Laid down 2 7/8" tubing.

9.20. Finished laying down 2 7/8" tubing. Picked up 2 7/8" tubing, drifting and hydrotesting to 5,000 psi. 180 joints in well.

9.21. Rig and crew idle.

9.22. Landed tubing on packer with 10,000#. Pulled 30,000# over tubing weight to check latch. Installed back pressure valve and removed BOPE. Installed xmas tree and tested with 5,000 psi. Unloaded drilling fluid from well with gas.

9.23. Flowed well to Baker tank. Surface pressure 2,200 psi. Ran Audio Analyzer log from 7,885' to 600' which indicated no gas movement. Released rig at 10:00 pm.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #55, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-21353 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date July 30, 1982

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	GWO #98866 was issued to plug off storage zone and convert to observation well.
1982	
7-06	1st Day. Unloaded rig.
7-07	2nd Day. Rigged up while changing flanges on rig. Raised mast. Bled gas off annulus at 1000 psi. Found 2700 psi on tubing with no fluid in tubing. Rigged up Archer Reed and shot two 3/8" holes at 7850'.
7-08	3rd Day. Rigged up Howco. Killed well with 76#/cu. ft. polymer completion fluid. Installed back pressure valve in doughnut and removed xmas tree. Installed 8" x 5000 psi BOPE equipment. Using H&H test pump, tested blind rams and 2-7/8" pipe rams to 4000 psi. Tested Hydril and manifold to 3000 psi. Unlatched from packer.
7-09	4th Day. Circulated gas out of well. Measured out of well. Dimple on tubing at 7850'. A 3/8" hole in tubing at 7898'. Ran in well with Otis 4 seals and locator sub on 2-7/8" tubing and stabbed into packer at 7947'. Obtained breakdown of 12 cu. ft. per minute at 1500 psi. Using Howco stabbed in and squeezed perforations with 100 sacks Class "G" cement mixed with 0.5% CFR-2 and 0.6% Halad 9 with rate of 3 cu. ft. per minute starting at 850 psi with final pressure of 1400 psi. Placed 25 sacks on top of packer and back scuttled 3 cu. ft. Pulling out of well.
7-10	5th Day. Finished pulling out of well. Made up spear, jars, bumper sub and eight 4-3/4" drill collars on 2-7/8" tubing. Ran in well. Recovered top swedge from Pengo patch at 6564'. Ran in well to 6603' and jarred casing patch loose. Pulling out of well.

7-12 6th Day. Finished pulling out of well with casing patch. When released spear, the bottom 30' of patch fell back in the well. Recovered top 10'. Ran in well to top of casing patch at 5258'. Pulled out of well and recovered 5' of casing patch. Ran in well with spear, no recovery. Changed grapple on spear. Ran in well and worked into fish with spear. Pulling out of well.

7-13 7th Day. Finished pulling out of well. No recovery. Changed grapples on spear. Ran in well and set spear in fish. Pulled 14,000# over weight of string. Pulled out of well and recovered 5' joint. Ran in well with spear and worked through tight spot in casing from 5168' to 5175'. Ran in to 5870'. Pulling out of well.

7-14 8th Day. Finished pulling out of well. Redressed spear and set stop sub 18' above spear. Ran in well to top of fish at 6626' and set spear in fish. Pulled out of well and recovered all 20' of casing patch. Ran in well with 7-5/8" Servco junk mill on eight 4-3/4" drill collars on 2-7/8" tubing. Milled bottom seal and swedge at 6604'. Pushed to 7870'. Pulled out of well with junk mill. Made up Tri-State 8-5/8" section mill on drill collars and 2-7/8" tubing.

7-15 9th Day. Finished running in the well with Tri-State 8-5/8" section mill. Cutting section in 8-5/8" 36# N-80 casing from 7830' to 7839'. Shut down to repair rig.

7-16 10th Day. Ran 10 stands back in well. Milling at 7839'. Tubing parted. Pulled out of well. Recovered 48 stands of tubing and tubing collar. "Pin looking up in well". Ran in well with Tri-State overshot on 2-7/8" tubing - 2569'. Pulled out of well with fish. Changed 8-5/8" section mill and ran in well with 121 stands.

7-17 11th Day. Continued milling from 7839' to 7842'. Rate 3" per hour with 4000# at 74 RPM. Pulled up after milling 50 minutes for 10 minutes. Pulling out of well with mill #2.

7-19 12th Day. Finished pulling out with Tri-State section mill #2. Inspected mill and found 80% of cutting material still on tool. Reran mill #2 in well and continued milling 8-5/8" casing from 7842' to 7848'.

7-20 13th Day. Milled 8-5/8" casing from 7848' to 7850' with mill #2. Pulled out with mill. Ran 7-5/8" x 15" Tri-State hole opener in well and opened hole from 7830'-7850' to 15". Displaced 76#/cu. ft. polymer completion fluid from well with 510 bbls of 63#/cu. ft. lease salt water.

7-21 14th Day. Pulled out with hole opener. Ran Howco 8-5/8" RTTS retainer to 7830'. Equalized 75 cu. ft. of 12% HCL and 3% HF acid at 7830'. Pulled RTTS up to 7605'. Squeezed 25 cu. ft. of 7-1/2% HCL and 1-1/2% HF acid, 57 cu. ft. "G" cement with 0.5% CFR-2 and 0.6% Halad 9 and displaced cement top down to 7730' with final pressure of 2100 psi. Shut well in for 4 hours. Located cement at 7695'. Witnessed by Division of Oil and Gas. Pulled out of well with RTTS retainer.

7-22 15th Day. Ran 2-7/8" EUE 8Rd tubing in well to 7678' when doughnut was landed in tubing head. Drifted tubing with 2" drift. Using Triangle, ran Audio analyzer log from 7660' to surface. Showed no gas leakage.

7-23 16th Day. Installed back pressure valve in doughnut. Removed BOPE and installed xmas tree. Pressure tested xmas tree and doughnut seals at 5000 psi. Released rig at 2:00 P.M., 7-23-82.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 C Sec. 28, T3N, R28W S.B.B.&M.
A.P.I. No. 03721353 Name Todd Van de Putte (Person submitting report) Title (President, Secretary, or Agent)
Date 2/15/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
11/5/2010	Removed the laterals and the blind flange connections. Moved in the Class III, 5M BOP equipment, moved in and rigged up the hoist. Rigged up the pump and piping to kill the well.
11/8/2010	Held safety meeting with the Rival Rig crew. Opened the well with 1900 psig pressure on the tubing and the casing. Rigged up and killed the well with 430 bbl brine. Installed the back pressure plug and nippled down the production tree. Nippled up the 5M Class III BOPE and secured the well.
11/9/2010	Opened the well with 0 psig surface pressure on the tubing and the casing with the well standing full of brine. Rigged up the BOP test pump and tested the blind rams to 300 psig low and 5000 psig high for twenty minutes. Tested the pipe rams 300 psig low and 5000 psig high for twenty minutes. Tested the Hydri annular preventerl to 300 psig low and 3000 psig high for twenty minutes. Tested the choke manifold and all the control valves to 300 psig low and 5000 psig high. (M Davis DOGGR waived witness of BOPE test) Backed out the hold down studs and unlanded the tubing. Released from the 2-7/8" on/off tool. Pulled out of the well to 3500' for a kill string and secured the well.
11/10/2010	Pulled out of the well and laid down the 2-7/8" production equipment. Made up a 7" HES bridge plug and ran in the well to 7800' and set the bridge plug. Released and tested the bridge plug to 500 psig surface pressure and dumped lineal feet of 10' sand on top. Pulled out of the well to a kill string at 4000' and secured the well.
11/11/2010	Pulled out of the well and laid down the bridge plug retieving tool. Made up an 8-5/8" casing scraper and ran in the well to the 7" liner top at 4968'. Pulled out of well the and laid down the 8-5/8" casing scraper. Made up a 7" casing scraper and ran in the well to the top of the sand at 7800' and secured the well.
11/12/2010	Rigged up the Tuboscope tubing scan unit. Pulled the 2-7/8" tubing out of well thru the scan unit (256 joints tested yellow band). Rigged down and moved out the Tuboscope scan unit. Ran in the well with the kill string to 2000' and secured the well.
11/15/2010	Pulled out of the well with the 2-7/8" kill string. Rigged up the Schlumberger wireline unit and made up the USIT tools. Ran in the well to 7800' and logged the 7" and the 8-5/8" casing from 7800' to surface. Rigged down and moved out the wire line unit. Made up an HES 8-5/8" test packer and ran in the well to 1670', set packer and tested the 2-7/8" x 8-5/8" annulus to 2700 psig for twenty minutes. Pressure held steady. Released the 8-5/8" test packer and ran in the well to 1720' and set the packer. Tested the 2-7/8" x 8-5/8" annulus to 2700 psig for twenty minutes. Pressure held steady. Released the 8-5/8" test packer and secured the well.
11/16/2010	Ran in the well to1800' and set the 8-5/8" test packer. Tested the 2-7/8" x 8-5/8" annulus to 2500 psig for twenty minutes. Pressure held steady. Released the test packer and pulled out of the well and laid down the 8-5/8" test packer. Made up (1) jt of 7-3/8" wash pipe, measured and picked up (2) joints of 4-3/4" drill collars. Ran in the well to 1900' for a gauge run. Pulled out of the well laid down the 7-3/8" wash pipe.
11/17/2010	Made up a 7-3/4" mill and (2), 4-3/4" drill collars. Ran in the well to 1690' and tagged. Rigged up the power swivel and cleaned out from 1665' to 1715'. Rigged down the power swivel and pulled out of the well and laid down the mill. Made up a 8-5/8" Homco casing patch and the setting tools. Ran in the well to 1670' and set the Homco patch from 1670' to 1710' and secured the well.
11/18/2010	Pulled out of the well, laid down and loaded out the setting tools and the drill collars. Made up the 7" bridge plug retrieving tool and Ran in the well to 1670' and tagged the patch. Continued in the well to the top of the sand at 7760'. Nippled up the PGSR and reverse circulated the sand out of the hole and latched the 7" bridge plug. Circulated the hole clean and released the 7" bridge plug. Pulled out of the well to 7500' and secured the well.
11/19/2010	Pulled out of the well and laid down the 7" bridge plug. Made up the top half of the 2-7/8" on/off tool, 1 jt 2-7/8" tubing, HES sliding sleeve, 1jt 2-7/8" tubing, GLMA with dummy valve. Ran in the well to 4800' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 C Sec. 28, T3N, R28W S.B.B.&M.
A.P.I. No. 03721353 Name Todd Van de Putte (Person submitting report) Title (President, Secretary, or Agent)
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Start Date	Ops this Report (DOGGR)
11/22/2010	Ran in the well to 7833' with the completion string and latched the 2-7/8" on/off tool. Respaced the 2-7/8" completion string in the well. Landed the 2-7/8" tubing in the tubing hanger in 12,000lb compression. Tested the 2-7/8" x 8-5/8" annulus(with casing patch) to 500 psig surface pressure for twenty minutes. Pressure held. Nippled down the Class III 5M BOP and nippled up the production tree.
11/23/2010	Rigged down the Rival Rig and moved out the hoist. Loaded the BOP equipment and rigged down the Rival Rig. Tested the tree to 5000 psig.
11/24/2010	Installed the laterals, cleaned the rig pump, baker tanks and cleaned the location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Porter 26 C
A.P.I. No. 03721353

Field: Aliso Canyon County: Los Angeles
Surface Location: Sec. 28, T3N, R28W S.B.B.&M.

Azra Kargar Title: Storage Field Engineer
(President, Secretary, or Agent)

Date: 10/26/2011

Signature: [signature]
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number: 818-360-1245

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
9/22/2011	Rigged up for well kill. Opened well 2600 psi tubing and casing. Pumped 30 bbls of high viscosity pill and displaced with 46 bbls of 9.2 ppg water. Killed the well per schedule with 300 bbls. Installed back pressure plug and nippled down production tree. Nippled up and function test class III BOP. Secured well.
9/23/2011	Opened well 0 psi and 20 bbls to fill. Rigged up tester unit and tested blind rams, pipe rams, Hydril, choke manifold and all control valves to 3500 psi for twenty minutes; all tested well. (W Biel DOGGR inspected and approved installation of BOPE). Backed out and held down studs, unlanded tubing, released packer at 7833', and pulled out of well to kill string at 5000'. Secured well.
9/26/2011	Opened well 0 psi, filled well with 19 bbls. Pulled out of well and laid down production equipment. Made up 7" casing scraper and ran in well to 7880 top of liner. Pulled out of well to kill string at 2400'. Secured well.
9/27/2011	Opened well 0 psi 4 bbls to fill. Pulled out of well with kill string and laid down scraper and bumper sub. Nippled up shooting flange and rigged up Schlumberger wire line. Made up USIT tools. Ran in well to 7880' and ran USIT log from 7880' to 6680'. Made up 7" bridge plug on wire line, ran in well to 7840', and set the plug. Tested bridge plug to 1500 psi for ten minutes. Made up 2' gun with 4 HPF 16 holes. Ran in well to 7822', shot holes from 7822' to 7824', pumped in casing with to 1500 psi with no break down. Made up 2' gun with 4 HPF and ran in well to 7819'. Shot from 7819' to 7821', pumped in casing at 1800 psi and establish a rate of 0.5 BPM. Made up 7" retainer on wire line and ran in well to 7809' and set retainer at 7809'. Rigged down wire line. Secured well.
9/28/2011	Opened well 0 psi 0 bbls to fill. Made up star guide stinger and ran in well to retainer at 7809'. Stabbed in retainer, spaced out, and tested annulus to 1000 psi for twenty minutes. Obtained injection rate 0.25 BPM at 1800 psi. Un-stung from retainer. Secured well.
9/29/2011	Opened well 0 psi 0 bbls to fill. Rigged up BJ cementers and held safety meeting. Tested lines to 3000 psi, stabbed in retainer at 7809', pumped in to 2000 psi with no rate, bleed down to 1500 psi in 30 seconds. Un-stabbed from retainer, mixed and pumped 30 sakes (34 cu.ft) class "G" cement, displaced with 45 bbls, stabbed in retainer, squeezed (with hesitation) to 2200 psi and pumped 2 bbls cement below retainer. Un-stabbed from retainer, reversed, and circulated out 4 bbls cement. Rigged down cementers, pulled out of well, and laid down stab in. Measured and picked 6-1/8" bit, bit sub, (4) 4-3/4" drill collars and ran in well to 2500'. Secured well.
9/30/2011	Opened well 0 psi 0 bbls to fill. Ran in well with bit to top of retainer at 7809'. Nippled up PGSR, picked up power swivel. Started drilling out retainer, cleaned out 2' and fell through and could not make hole (blew PGSR rubber). Laid down power swivel, and pulled to 6000'. Secured well.
10/1/2011	Opened well 0 psi 0 bbls to fill. Pulled out of well and inspected bit (good); Ran in well to 7819' and picked up power swivel. Attempted to clean out retainer (could not make hole and no torque). Laid down power swivel and started out of hole to 6000'. Secured well.
10/3/2011	Opened well 0 psi 0 bbls to fill. Pulled out of well and laid down bit (one cone was locked up). Made up 6-1/8" junk mill and ran in well to 7819'. Cleaned out retainer to 7840'. Tested casing to 2000 psi for twenty minutes (good); Drilled out bridge plug to top of liner at 7880'. Circulated clean and pulled out of well to 4000'. Secured well.
10/4/2011	Opened well 0 psi 3 bbls to fill. Pulled out of well and laid down mill. Made up 7" casing scraper and bumper sub and ran in well to top of the liner at 7880'. Pulled out of well to kill string at 2400'. Secured well.
10/5/2011	Opened well 0 psi filled well with 3 bbls. Pulled out of well and laid down casing scraper. Made up shooting flange and rigged up Schlumberger wire line. Made USIT tools and ran in well to 7870'. Logged to 6870', pulled out of well, and rigged down loggers. Laid down (4) 4-3/4" drill collars. Measured and picked up (12) joints 2-3/8" tubing. Ran in well to 3000'. Secured well.
10/6/2011	Opened well 0 psi 2 bbls to fill. Ran in well to 7880' (the liner top) and attempted to work into the liner. Pulled out of well to kill string at 2500'.
10/7/2011	Opened well 0 psi 3 bbls to fill. Pulled out of well and measured and picked up (4) 3-1/8" drill and 4-1/2" bit. Ran in well to top of liner at 7880' and rigged up power swivel. Cleaned out liner top, fell through, and ran in well to 7954'. Reversed circulated 100 bbls. Pulled out of well to 6500'.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Field: Aliso Canyon
County: Los Angeles
Well: Porter 26 C
Surface Location: Sec. 28, T3N, R28W S.B.B.&M.
A.P.I. No. 03721353
Azra Kargar
Title: Storage Field Engineer
(President, Secretary, or Agent)

Date: 10/26/2011
Signature:
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300
Telephone Number: 818-360-1245

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
10/10/2011	Opened well 0 psi filled well with 5 bbls. Pulled out of well and laid down (4) 4-3/4" drill collars. Made up 2-3/8" mule shoe and ran in well with (12) 2-3/8" Hydril tubing and 2-7/8" tubing to 8196'. Reversed circulated 100 bbls. Pulled out of well to kill string at 2500'. Secured well.
10/11/2011	Opened well 0 psi 5 bbls to fill. Pulled out of well and laid down (12) Joints 2-3/8" tubing. Made up HES "G-6" packer, 6" pup jt, On/Off tool, 1 jt tubing, sliding sleeve, 1 jt tubing, gas lift mandrel. Ran in well to 7835' and set packer, spaced well, landed in tubing hanger with 10,000 compression. Tested annulus to 500 psi for twenty minutes. Nippled down class III BOPE and nippled up production tree. Secured well.
10/12/2011	Rigged down hoist and loaded out BOP equipment. Loaded out rig equipment. Installed laterals lines and cleaned location.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well IW #54, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-21319 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date October 7, 1983

Signature J. P. Anand

P.O.Box 3249, Terminal Annex, Los Angeles, Ca 90051 (Address) (213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99230 was issued to repair shoe leak.
1983	
8-5	Day 0. Moved from SS-#2 to IW #54 & rigged up.
8-6	Day 1. Rigged up SPS #39.
8-8	Day 2. Rigged up. Fabricated cover for nearby IW #65. Installed marsh anchor. Installed back pressure valve. Removed Xmas tree. Installed 9" Class III, 3000 psi BOPE. Rigged up choke manifold, flow lines & bell nipple.
8-9	Day 3. Finished rigging up. Pressure tested blind rams, pipe rams & choke manifold to 3000 psi for 20 minutes. Tested Hydril to 2000 psi for 20 minutes. Witnessed by DOG. Unlanded tubing from Baker packer. Circulated well for 1.5 hrs. at 800 psi. Pulled out of well to 2000'.
8-10	Day 4. Filled well with 2 bbls drilling fluid. Finished pulling out of well. Ran into well with Baker "CJ" milling tool, 2 junk baskets & 6 - 4-3/4" O.D. drill collars. Shut down for rig repairs from 9:00 a.m. to 10:00 a.m. Ran into well. Located packer but unable to get Kelly on. Safetyed tool & pulled out of well. Reset tool & ran back into well to 7000'.
8-11	Day 5. Filled well with 1 bbls polymer drilling fluid. Ran in well from 7000' to packer. Milled Baker packer. Pushed packer down to 7205'. Pulled out of well but did not recover packer. Made up new shoe on CJ milling tool. Ran back in well to 6432'. Latched packer & milled for 30 minutes. Pulled up to 6307'.
8-12	Day 6. Fill well with 1 bbl polymer completion fluid. Pulled out of well from 6307'. Recovered packer mandrel. Ran in well with 2-7/8" saw-tooth collar on 2-7/8" tubing to 2500'. Slipped & cut drilling line (80'). Finished running into well to 7229', 5' below liner top. Unable to go deeper. Pulled out of well. Ran in well with 5-5/8" O.D. concave mill. Milled Junk to 7231'. Ran to bottom

of liner at 7912'. Pulled up to 7180'.

8-13 Day 7. Pulled out of well from 7180'. Laid down mill. Ran in well open-ended with 2-7/8" tubing to 7380'. Equalized 95 sacks of silica sand. Pulled out of well. Ran Hercules electric line and found top of sand at 7342'. Ran tubing to top of liner.

8-15 Day 8. Ran open end tubing to 7342' and backscuttled sand out to 7404'. Checked in one hour for firm sand plug. Pulled out of well. Using Hercules Electric line laid cement from 7404' to 7393'. Ran 7-5/8" O.D. Mill, on (2) 5" O.D. junk baskets and 6 - 4-3/4" O.D. drill collars to 7224' and milled to 7227'.

8-16 Day 9. Continued milling to 7232' (5' in 9 hours). Displaced 417 bbls of 63#/cu.ft. 36 seconds viscosity polymer with 417 bbls of 63#/cu.ft. 80 seconds viscosity polymer and continued milling for 2 additional hours with no progress. Started out of well measuring tubing.

8-17 Day 10. Finished pulling out with Mill #1. Ran 7½" O.D. Mill on milling assembly and continued milling 6-5/8" liner from 7232' to 7241'. Tubing twisted off. Circulated well. Started out with tubing. Brakes on rig failed. Shut down for repairs at 4:00 p.m.

8-18 Day 11. SPS Rig down for brake linkage replacement.

8-19 Day 12. Repaired rig. Pulled out of well to 4366' where tubing pin had sheared. Ran Bowen 3-3/32" overshot on 2-7/8" tubing to 4366'. Attached to fish and pulled out to overshot. Removed bad joint and ran Mill back to 7240-½' and continued milling to 7241-½'.

8-20 Day 13. Continued milling with Pilot Mill #2 from 7241.5' to 7274'. Pulled 5 stands.

8-22 Day 14. Continued milling up 6-5/8" 28# casing with Mill #2 from 7266' (corrected depth) to 7281'. Mill stopped cutting. Circulated 1½ hours and pulled out of well. Made up 7½" O.D. Pilot Mill #3 on milling assembly and started in well.

8-23 Day 15. Continued milling 6-5/8" 29# casing with 7½" O.D. Pilot Mill #3 from 7281' to 7314'. Pulled 5 stands.

8-24 Day 16. Continued milling 6-5/8" 28# casing from 7314' to 7324'. Mill torqued up. Pulled out of well. Found bottom guide (4½" long x 4" across had ground off of mill). Made up 4½" O.D. Cavins surge tool on 2-7/8" tubing and ran to 7325', and cleaned out to 7340'. Started out with surge tool.

8-25 Day 17. Finished pulling out with surge tool. (Recovered 5 gallons of cuttings). Ran 2-7/8" sawtooth collar on 2-7/8" tubing to 7325' and cleaned out to 7340'. Pulled out with collar. Ran 4½" fish tail bit on 2-7/8" tubing and cleaned out from 7340' to 7390'. Fill would not circulate out of well. Mixed 4 sacks of polymer in system and increased viscosity to 55 seconds and circulated for 1½ hours. Fill would not circulate out of well. Pulled 5 stands.

8-26 Day 18. Ran bit back to 7360' and found top of fill. Pulled out with fish tail bit and ran 2-7/8" Carbide tipped sawtooth collar to 7360'. Cleaned out to 7390' & backscuttled cuttings out from 7360' to 7390'. Pulled out of well and made up 7½" Mill #4 on milling assembly and started in well.

8-27 Day 19. Milled 6-5/8" 28# casing from 7324' to 7343' with 7½" O.D. Pilot mill #4. Circulated well and pulled 5 stands.

8-29 Day 20. Milled to 7371'. Twisted off, circulated clean and pulled out of well. Ran in well with Midway Fishing Tool's, overshot and worked over fish at 4439'. Pulled out of well and laid down Midway Fishing Tools. Ran in well to 7371' and milled to 7372.56'.

8-30 Day 21. Milled to 7373'. Circulated and pulled out of well to clean fill. Ran in well with 2-7/8" sawtooth collar and reverse circulated cuttings out of well. Ran in well with mill to 7018'.

8-31 Day 22. Pumped one bbl. of fluid to fill well and ran in well to 7372' and milled to 7391'. Unable to circulate. Pulled out of well, tubing extremely tight. Laid down mill and junk sub. Ran in well with 7-5/8" bit and scraper. Located fill at 7380'. Unable to clean out or circulate. Pulled out of well with 240' tubing.

9-1 Day 23. Pulled out of well with 7-5/8" bit and casing scraper. Ran in with sawtooth collar. Fill still at 7380'. Circulated and reverse circulated and cleaned out to 7390'. Flow lines plugged on 3 occasions. Backscuttled and pulled 5 stands. Ran back in well 15 min. later & found fill at 7385'. Unable to clean well by rotating, circulating and backscuttling. Pulled out of well.

9-2 Day 24. Ran in well with 7-5/8" junk mill, fill at 7387'. Milled to 7392'. Pulled 30 stands of tubing out of well and waited one hour. Ran back in well and located fill at 7388'. Circulated for 2 hours and pulled up 30 stands. Ran in well and located fill at 7390'. Pulled out of well. Laid down mill and cleaned out junk subs. Ran in well with sawtooth collar and located fill at 7388'. Circulated, rotated and cleaned out to 7390'. Backscuttled 3 hours. Picked up 70 stands of tubing.

9-3 Day 25. Reverse circulated polymer workover fluid out of well with clean salt water. Mixed cement and used Hercules cement dump bailer to lay cement plug from 7389' to 7371'.

9-6 Day 26. Ran in well and located cement at 7371'. Ran Johnston retrievable retainer to 7058' with tubing tail at 7359'. Rigged up Halliburton and attempt to obtain breakdown at 2700 psi. Equalized 75 cu.ft. of 12% Hcl and 3% HFL and maintained pressure at 2700 psi for 2 hrs. with no breakdown. Pulled out of well. Rigged up McCullough wireline to perforate. McCullough's collar depth did not correlate with cement bond. McCullough located cement at 7353' instead of 7371'.

9-7 Day 27. Pulled out of well with 2-7/8" tubing and ran in with McCullough perforated gun. Located bottom at 7356'. Pulled out, laid down McCullough tools and ran in well with 7-5/8" bit and scraper and cleaned out fill from 7362' to 7370'. Backscuttled, pulled up 30'

and waited 30 min. Located bottom at 7370'. Pulled out of well and ran McCullough perforated gun and located bottom at 7359.2'. Shot 8-½" holes from 7359' to 7357'. Laid down McCullough tools and ran in well with Johnston retrievable retainer. Pressure up to 2700 psi with salt water with Halliburton but no breakdown obtained.

9-8 Day 28. Equalized with 75 cu.ft. of acid and squeezed acid at 5.6 cu.ft./min. and 2600 psi. Pulled out of well & laid down Johnston retrievable retainer. Ran in well with Baker drillable retainer using McCullough wireline and set retainer at 7320'. Ran in well with Baker stinger and squeezed acid away at 8 cu.ft./min and 2500 psi. Squeezed holes with 69 cu.ft. of cement with final pressure at 2200 psi. Cleaned holes by 50 cu.ft. & pulled 15 stands.

9-9 Day 29. Ran in well to retainer and obtained breakdown rate of 11 cu.ft./min at 2500 psi. Squeezed 60 sacks of Class "G" cement. Displaced with 246 cu.ft. of water and cleared holes. Pressure build up unsatisfactory. Re-squeezed with another 60 sacks, leaving about 4 cu.ft. of cement below retainer. Pulled out of well and ran in with bit and junk subs to 7337'. Drilled to 7338'. Circulated.

9-10 Day 30. Drilled out retainer and cement from 7338' - 7370'. Pulled out of well and laid down bit and junk subs. Ran in well with Baker retrievable retainer and pressure tested casing with Dowell's pumps in 30 min. intervals as follows: 0 - 1000' at 4000 psi, 0 - 2300' at 3500 psi, 0 - 4600' at 2500 psi, 0 - 7370' at 2000 psi.

9-12 Day 31. Slipped and cut 40' of drilling line. Ran in well with 7-5/8" bit and drilled from 7376' to 7386'. Unable to drill any further. Pulled from well and ran in with 5-5/8" bit to get into the liner, drilled from 7386'-7398'. Pulled out and ran in with 5-5/8" concave mill and junk subs.

9-13 Day 32. Cleaned out fill with concave mill from 7398' to 7424'. Pulled out of well and cleaned out junk subs. Ran in well with saw-tooth collar to 7379' and changed over from salt water to polymer. Cleaned out sand from 7424' - 7912'. Reverse circulated well clean. Pulled out of 6-5/8" liner.

9-14 Day 33. Pulled out of well from 7912' and picked up Johnston test tools. Ran in well and set packer at 7350'. Rigged Johnston lines to withdrawal line and tested surface lines to 3600 psi. Opened well and unloaded fluid in rathole to Baker tank. Pressure upstream from choke remained at about 200 psi even after shutting off flow to Baker tank and waiting for 1 - 2 hours twice.

9-15 Day 34. Opened well to Baker tank & then flowed it into withdrawal line at 5000 McF/day for about 6 hrs. Pressure upstream from choke at start of flow test was 2200 psi. Ran noise log with McCullough triangle. Showed no gas movement. Closed Johnston test tools and bled gas in tubing to the Baker tank then filled tubing with polymer workover fluid. Circulated gas in the rathole out of well. Pulled 30 stands of tubing.

9-16 Day 35. Pulled out of well and laid down Johnston test tools. Rigged up Dresser Atlas to run packer. Unable to get through 8-5/8" casing with gauge ring. Ran in well with packer on tubing past 8-5/8" casing with no problem. Pulled out of well and ran back in with packer on wireline and set Baker Model "D" packer at 7370' using reference collars at 7305' & 7348'. Pulled out of well and ran in with test seals and tested seals & packer to 1500 psi for 20 min. Pulled out and started laying down tubing.

9-17 Day 36. Laid down Kelly, 6 drill collars & 250 joints of 2-7/8" tubing. Ran in well with production equipment consisting of Baker production tube, Otis 2.205" No-Go Nipple, Otis sliding sleeve in the open position and a Camco gas lift mandrel. Hydrotesting new 2-7/8" tubing in singles while going in the well. Hydrotested 136 joints of tubing.

9-18 Day 37. Continued running in well with completion string, hydrotesting to 5,000 psi. Landed tubing with 10,000# on packer. Displaced polymer completion fluid from well with salt water. Installed and tested Xmas tree. Released rig at 11:00 p.m. 9-18-83.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 E Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03721319 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
2/25/2015	Rigped up the Carbon wireline unit. Ran 2.205" gauge rings to the XN profile sub at 7353'. Ran in the well with the pulling tool. Pulled the prong from the PXN Plug at 7353'. Made up and ran the shifting tool to verify that the sliding sleeve at 7312' was in the open position and secured the well.
2/26/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Shot fluid levels. Casing at 421'. Tubing at 436'. Rigped up the Carbon Wireline unit. Ran 2.5" GS pulling tools on a 1-1/2" jarring assembly to pull the PXN plug body at 7353'. Sheared off. Pulled out of the well and redressed the GS pulling tool. Ran in the well to 7353'. The slickline parted at the surface while jarring on the plug body. Secured the well. Offloaded the Class III 5M BOPE and the accumulator. Rigged up Cameron to test the wellhead seals. Pressure tested the primary seals to 2760 psig (80% of collapse) for 15 minutes (Lost 100 psig). Pressure tested the secondary seals to 2760 psig for 15 minutes (Lost 75 psig). Rigged Cameron down and moved in the Rival Rig #12 and associated equipment.
2/27/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Rigged up the rig floor and the Carbon Wireline Unit. Rigged up and dropped the slickline cutter. Recovered the slick line from the well. Rigged down and moved out the Carbon Wireline Unit. Moved in and rigged up the Western Wireline Unit. Ran in the well and fished the wireline cutter. Ran in the well and recovered the tool assembly. Laid down the fish and ran in well with a 2-1/2" GS Pulling Tool on a 1-3/4" string. Jarred on the plug with no recovery. Sheared the GS Pulling Tool off the PXN plug body. Pulled out of the well and rigged down the Western Wireline unit and secured the well.
3/2/2015	Moved in and rigged up the Onyx test separator. Connected the lateral line to the tubing and the casing. Pressure tested the lines and the tubing with field gas. Rocked the well and unloaded 187 bbl of 8.5 KCl brine to the storage tank. The tubing side flowed gas only. Shut in the well and secured the well.
3/3/2015	Rigged down and moved out the Onyx seperator and rigged up the Carbon wireline unit. Shot fluid levels (Tubing at 4882', Casing at 1350'). Made up a "GS" pulling tool on wireline. Ran in the well to the plug body at 7346' and attempted to pull. Bled down 200 psig pressure from the tubng and the plug came free. Rigged down and moved out the Carbon wireline unit. Moved in and rigged up the Onyx seperator. Rigged up for the well kill and secured the well.
3/4/2015	Opened the well with 1045 psig surface pressure on the casing and 2100 psig surface pressure on the tubing. Moved in and rigged up the WELACO wireline unit. Made up a temperature tool on wireline. Pick up depth at 7828' (previous PU at 7866' on 7/24/92). Ran the temperature survey to the surface. Rigged down and moved out the WELACO wireline unit. Rigged up and pumped 50 bbl of Hi-vis polymer and displaced with 42 bbl of 8.5 ppg KCl brine and killed the well with through the separator with 430 bbl of 8.5 ppg KCl brine. Rigged down and moved out the separator. Installed the BPV, rigged down the production tree. Rigged up the Class III 5M BOPE and secured the well.
3/5/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Continued to rig up the Class III 5M BOPE and rigged up the WEA tester. Pressure tested the blind rams to 300 psig (low) and 5000 psig (high) for twenty minutes (test good). Pressure tested the pipe rams to 300 psig (low) and 5000 psig (high) for twenty minutes (test good). Pressure tested the Hydril annular preventer to 300 psig (low) and 2600 psig (high) for twenty minutes (test good). Pressure tested the choke manifold and all the control lines to 300 psig (low) and 5000 psig (high) for twenty minutes (tests good; C. Knight, DOGGR inspected and approved BOPE). Rigged up the tubing equipment and backed out the hold down studs. Unlanded the completion tubing at 25,000 lb and pulled the completion packer 12' before pulling over string weight. Released the completion packer and pulled out of well (dragging 8 klb over string weight). Laid down the 2-7/8" completion tubing to 3900' and secured the well.
3/6/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. The well was filled with 2 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the 2-7/8" completion tubing. Laid down the GLM, the sliding sleeve and the production packer. Moved in the 2-7/8" workstring. Measured and picked up a bumper sub, an 8-5/8" casing scraper on the 2-7/8", P-110 workstring tubing. Ran in the well to 2700' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 E Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03721319 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
3/9/2015	The well was filled with 5 bbl of 8.5 ppg KCl brine. Measured and picked up the 2-7/8" workstring tubing and ran in the well with the 8-5/8" casing scraper to the top of the stub at 7359'. Rigged up and reverse circulated the well with 130 bbl of KCl brine. Pulled out of the well to a kill string at 3480' and secured the well.
3/10/2015	Filled the well with 8 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the 8-5/8" casing scraper. Ran in the well with an 8-5/8" 36# bridge plug on the 2-7/8" workstring. Tagged the tubing stub at 7360' and set the bridge plug at 7351' COE. Pulled up the well to 7290' and pressure tested the bridge plug to 500 psig surface pressure for 5 minutes (Good test). Dumped 6 sacks of sand down the tubing and displaced with 35 bbl of KCl brine. Pulled out of the well, installed the shooting flange and secured the well.
3/11/2015	The well was standing full of 8.5 ppg of KCl brine. Moved in and rigped up the Schlumberger wireline unit. Ran the high resolution USIT/CBL/Neutron log from 7340' to the surface. Rigged down and moved out the Schlumberger wireline unit and secured the well.
3/12/2015	The well was standing full of KCl brine. Made up a 8-5/8" test packer on the 2-7/8" workstring. Ran in well to 500', set test packer and pressure tested the 8-5/8" production casing from 500' to surface at 3100 psig for 20 minutes (Test good). Relased the test packer and ran in well to 7200'. Pressure tested the 8-5/8" production casing from the RBP at 7351' to 7200' at 1000 psig for 20 minutes (Test good). Released the test packer and pulled to 5700'. Set the test packer and pressure tested from 5700' to 7351' to 1000 psig for 20 minutes (Test good). Pressure tested from 5700' to surface at 1000 psig for 20 minutes (Test good). Released the test packer and pulled up the well to 5000'. Set the test packer and pressure tested from 5000' to surface at 1300 psig for 20 minutes (Test good). Released the test packer and pulled up the well to 4500'. Set the test packer and pressure tested from 4500' to surface at 1500 psig for 20 minutes. Bled off 100 psig. Repaired a leak at the casing valve. Re-tested from 4500' to surface at 1500 psig (Test good). Released the test packer and pulled up the well to 4,000' and secured the well. (All pressure tests recorded on a chart).
3/13/2015	Pressure tested the 8-5/8" production casing from 4000' to the surface at 1700 psig for 20 minutes (Test good).. Released the test packer and pulled up the well to 3500'. Set the test packer and pressure tested to 1900 psig for 20 minutes (Lost 22 psig). Released the test packer and pulled to 3000'. Set the test packer and pressure tested to 2100 psig for 20 minutes (Lost 11 psig). Released the test packer and pulled up the well to 2500'. Set the test packer and pressure tested to 2300 psig for 20 minutes (Test good). Released the test packer and pulled to 1500'. Set the test packer and pressure tested to 2700 psig for 20 minutes (Test good). Pull out of the well and laid the 8-5/8" test packer down. Picked up a 8-5/8" Lok-Set Bridge plug on the 2-7/8" workstring. Ran in the well and set retrievable bridge plug at 1021' COE and secured the well.
3/16/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Bled 7 psig from the 13-3/8" x 8-5/8" annulus. Dumped 5 sacks of sand down the tubing and displaced with 3 bbls of 8.5 ppg KCl brine. Pulled out of the well from 1000'. Rigged down the rig floor and the tubing tools. Rigged down the Class III 5M BOPE. Removed the 13-5/8" x 11" 5M tubing head and DSA seal flange. Pulled the primary seal from the 8-5/8" x 13-3/8" annulus. Installed a 13-5/8" 5M x 11" 5M crossover spool and surplus production tree to secure the well. Sent the wellhead equipment to Cameron for service.
3/18/2015	Rigged down the production tree and the crossover spools. Installed a new primary seal. Installed the refurbished 13-5/8" DSA seal flange. Pressure tested the seals to 300 psig (low) and 2700 psig (high) for 15 minutes each; recorded on a test chart. Installed the refurbished 13-5/8" 5M x 11" 5M tubing head. Pressure tested the secondary seals to 300 psig (low) and 2700 psig (high) for 15 minutes each; recorded on a test chart. Rigged up the Class III 5M BOPE. Function tested the pipe rams and the annular preventer. Installed the tubing hanger and pressure tested the new API rings to 3000 psig (Good test). Made up an 8-5/8" bridge plug retrieving tool on the 2-7/8" workstring. Ran in the well to 950' and secured the well.
3/19/2015	Installed the PGSR and circulated the sand from 1016' to 1021'. Released the 8-5/8" bridge plug and pull out of the well. Laid down the 2-7/8" work string and the bridge plug. Ran in the well with the remaining 2-7/8" P-110 workstring from the derrick. Pull out of the well to 2535', laid the 2-7/8" P-110 workstring tubing down and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 E Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03721319 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
3/20/2015	Opened the well with 0 psig surface pressure on the casing. Laid down the remainder of the 2-7/8" P-110 workstring from 2535'. Offloaded the new 2-7/8" L80 completion string. Picked up the 8-5/8" bridge plug retrieving tool, 80 joints of new 2-7/8", L -80 completion tubing to 2520' and secured the well.
3/23/2015	The well was standing full of 8.5 ppg KCl brine. Continued running in the well with the 8-5/8" bridge plug retrieving head from 2520' and picked up new 2-7/8" L-80 tubing. Tagged the sand at 7340'. Installed the PGSR cage and the pack off. Cleaned out the sand to the top of the 8-5/8" bridge plug at 7351'. Worked the 8-5/8" bridge plug free, pulled up the well to 3133' and secured the well.
3/24/2015	Opened the well with 0 psig surface pressure on the casing. Filled the well with 1.5 bbl of 8.5 ppg KCl brine. Pulled out of the hole and laid down the 8-5/8" bridge plug. Picked up 2-7/8" x 7-3/8" Slip Over Shoe, 8' & 10' 2-7/8" L-80 pup joints, Wfd 8-5/8" AS1-X Packer, 8' x 2-7/8" L-80 pup joint, 1 joint of 2-7/8" L-80 tubing, 2.33" WXN, 1 joint 2-7/8" L-80 tubing, 2-7/8" x 2.31" WXO Sliding Sleeve, 1 joint 2-7/8" L-80 tubing, 2' x 2-7/8" L-80 pup, 2-7/8" GLMA mandrel (w/ DV-1.0 Dummy Valve),4' x 2-7/8" L-80 pup, Ran in the well with 230 joints of 2-7/8" L-80 completion tubing. Pumped 60 bbl of 8.5 ppg KCl brine with CAP corrosion inhibitor down the tubing. Worked the Slip Over Shoe over the tubing stub at 7359' to space out the well completion. Picked up a 10' and a 6' x 2-7/8" L-80 pup and the tubing hanger. Worked the Slip Over Shoe over the tubing stub at 7359'. Set the completion packer at 7394'. Landed the completion string on the tubing hanger with 12 klb compression. Moved in and rigged up the Carbon Wireline unit. Ran in the well with a 1-1/2" blind box on wireline and tagged at 7760'. Rigged down and moved out the Carbon wireline unit. Pressure tested the 2-7/8" completion x 8-5/8" annulus to the packer at 7333' COE to 1000 psig for 20 minutes (Test good). Recorded on a test chart and secured the well. Up Weight 43K Down Weight 39K
3/25/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Rigged down the Class III 5M BOPE. Removed the pup joint and TIW valve. Installed the BPV and rigged up the production tree. Pressure tested the tubing hanger seals to 250 psig (low) and 5000 psig (high) for 15 minutes each (Test good). Loaded the BOP equipment and secured the well.
3/26/2015	Held safety meeting with crew.
5/19/2015	Moved in and rigged up the Western Wireline slickline unit. Made up a 2-1/2" GS Pulling Tool on wireline and ran in the well to 7279'. Pulled the X Test Tool out of the well. Rigged down and moved out the wireline unit.
5/27/2015	Moved in and rigged up the Rival Rig #12, rig pump, and tanks. Spotted the rig equipment, raised the mast.
5/28/2015	Opened the well with10 psig surface pressure on the casing and 1038 psig on the tubing. Moved in and rigged up the Onyx test separator. Bled the tubing pressure to 0 psig with no pressure change on the casing. Rigged up and pumped 53 bbls of 8.7 ppg KCl brine down the tubing at 1 bpm at 1500 psig. The tubing required 2.5 bbl to fill.No pressure change on the casing and no returns from the casing. The tubing bled to 1300 psig in 3 minutes. Bled the tubing to zero. Filled the annulus with 19 bbl of 8.5 ppg KCl brine. Pressure tested the tubing x casing annulus to 450 psig. Pressure on the annulus held for 5 minutes. Testing indicated that the sliding sleeve was closed. Rigged down and moved out the test separator. Rigged up the work floor, the accumulator lines and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 26 E Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03721319 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
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History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
5/29/2015	Opened the well with 110 psig surface pressure on the tubing and 0 psig on the casing. Moved in rigged up the Western Wireline unit. Ran in the well and set a X-Lock plug without packing or keys in XN profile sub at 7287'. Ran in the well with a kick-over tool and 1-1/4" JDC pulling tool. Unable to latch onto the prong in the dummy valve at 7214'. Ran in the well with OK05 kick over tool with 1-1/4" JDC pulling tool. Latched onto the prong at 7214'. Jarred free and pulled out of the well with no recovery. Ran in the well with with kick over tool and pulling tool for the dummy valve. Set down on the valve pocket at 7214'. Unable to latch on to the dummy valve. Assumed prong and dummy valve dropped down to X-Lock plug at 7287'. Pumped down the tubing at 3.5 bpm at 400 psig and breaking circulation. Rigged down and moved out the Western Wireline unit and secured the well.
6/1/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Changed the well over with 364 bbl of 8.7 ppg KCl brine at 3.5 bpm at 450 psig. Installed the BPV and removed the production tree. Installed the 2-7/8" pup and safety valve. Rigged up the 11" Class III 5M BOPE. Pressure tested the blind rams, the pipe rams, the valves and the choke manifold to 300 psig (low) and 5000 psig (high) for 20 minutes. Pressure tested the annular preventer to 300 psig (low) and 3500 psig (high) for 20 minutes. All tests good; Each test recorded on a chart. Secured the well.
6/2/2015	Pressure tested the two Safety Valves and the Inside BOP to 300 psig (low) and 5000 psig (high). Backed out the hold down pins and released the production packer. Filled the well with 6.5 bbl of 8.7 ppg KCl brine. Pulled out of the well and laid the down the GLM, the Sliding Sleeve, the XN profile, the production packer and the guide shoe. Recovered the X-Plug body and the Dummy Valve. Checked the drift on the Sliding Sleeve (good). Ran in the well with 2-7/8" tubing to 3124' and secured the well.
6/3/2015	Pulled out of hole from 3124'. Made up an 8-5/8" x 2-7/8" guide shoe, 10' & 8' x 2-7/8" L-80 pups, x/o, 4-1/2" x 8-5/8" AS1-X Packer, x/o, 2-7/8" x 8' L-80 pup, one joint of 2-7/8" L-80 tubing, 2.31" WXN profile sub, one joint 2-7/8" L-80 tubing, 2.31" WXO sliding sleeve, one joint 2-7/8" L-80 tubing, 2-7/8" x 2' L-80 pup, GLMA mandrel with dummy valve,2-7/8" x 4' L-80 pup, 230 joints of 2-7/8" L-80 tubing. Spaced the completion string out with a 10' & 6" x 2-7/8" L-80 tubing and an 8" tubing hanger. Pumped 60 bbl of 8.7 ppg KCl brine with corrosion inhibitor down the tubing. Displaced with 10 bbl of KCl brine. Set the production packer at 7333.5' COE. Landed the completion string with 10 klb compression. Screwed hold down pins into the tubing hanger. Pressure tested the 2-7/8" completion tubing x 8-5/8" production casing annulus to 500 psig and secured the well.
6/4/2015	Moved in and rigged up the Western Wireline unit. Made a feeler run with a 1-3/4" gauge ring and set down on the old tubing stub at 7359'. Pulled out the well and rigged down the lubricator. Released the production packer and added a 2' x 2-7/8" L-80 pup below the tubing hanger to re-space the completion string. Re-set the production packer at 7335' COE with 14 klb compression. Moved in and rigged up the Western Wireline unit. Made up a 1-3/4" gauge ring on wireline and ran through the production packer at 7394' down to 7500'. Re-pressure tested the production packer to 500 psig for 20 minutes (Test good). Ran in the well and set a PXN Plug in the XN profile sub at 7289'. Ran in the well and installed the prong in the plug. Pressure tested the tubing to 1500 psig (Test good). Ran in well with the shifting tool and opened the sliding sleeve at 7255'. Pumped down the tubing and circulated to verify that the sliding sleeve was open. Rigged down and moved out the Western Wireline unit and secured the well.
6/5/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Rigged down the rig floor and the tubing tools. Rigged down the Class III 5M BOPE. Installed the production tree and pressure tested void to 300 psig (low) and 5000 psig (high) for 20 minutes, recorded on a test chart. Rigged down the accumulator and loaded the production tools.

FORM 103 SUBMIT IN DUPLICATE Prod 11/26/75 Dev.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Southern California Gas Co. FIELD Aliso Canyon

Well No. "SFZU" Porter 32, Sec. 27, T. 3N, R. 16W, S.B. B. & M.

Date 11-21, 1975 Signed P S Magruder Jr

P. O. Box 3249, Terminal Annex
Los Angeles, California 90051
(Address) (Telephone Number)

P. S. Magruder, Jr.
Title Agent
(President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
8/6/75	Moved in Baker tank, 400 barrels of 80 lb./ft.^{3} brine-polymer mud, and Halliburton pump truck. Killed well with 200 barrels of mud. Bled down 5-1/2" x 7" annulus from 1350 psi to "0" psi.
8/7/75	Filled hole with 2 barrels of mud. Well dead.
8/26/75) 8/27/75)	Moving in and rigging up California Production Service rig No. D-4.
8/28/75	Finished rigging up. Filled hole and circulated until mud was gas free.
8/29/75	Installed back pressure valve in doughnut. Removed Xmas tree. Installed B.O.P.E. and tested to 2500 psi. Witnessed and approved by D.O.G. Installed pitcher nipple and flowlines.
8/30/75	Removed back pressure valve from doughnut. Pulled 2-7/8" tubing and measured out of hole. Laid down tubing jewelry. Picked up Baker model "D" latch-in packer plug. Ran plug and set in Baker model "D" packer at 7562'. Attempted to pressure test casing and plug unsuccessfully.
8/31/75) 9/ 1/75)	Rig idle.
9/2/75	Isolated leak to packer or plug at 7562, or WSO holes at 7539'. Pulled model "D" packer plug. Ran and set a new model "D" packer plug at 7562'. Well still would not hold pressure. Rigged up Byron-Jackson pump truck. With tubing at 7476', pumped a total of 23 sacks of silica sand on top of packer and plug at 7562'.
9/3/75	Tagged top of sand plug at 7455'. Pressure tested casing to 1150 psi for 10 minutes without loss. With tubing at 7445', equalized 25 ft.^{3} of class "G" neat cement on top of sand plug. Circulated well for three hours while waiting on cement. Tagged top of cement at 7399'. Pulled out of hole, laying down 2-7/8" tubing.

9/4/75 Removed B.O.P.E., tubing, seal flange and packing. Picked up Midway spear, engaged in 5-1/2" casing and removed casing slips. Released spear. Reinstalled B.O.P.E.

9/5/75 Laid down a total of 134 joints of 5-1/2", 17#, J-55 extreme line casing and recovered Burns' 7", 26# hookwall packer.

9/6/75 Ran 7", 23# Baker model B Loc-Set retrievable bridge plug and set at 642'. Tested B.O.P.E. to 2500 psi using water and nitrogen. D.O.G. declined to witness. Pulled Baker bridge plug. Picked up 6" bit and casing scraper. Measured in hole with 3-1/2", 13.30# grade G drill pipe.

9/7/75 Rig idle.

9/8/75 Tagged top of cement plug at 7397'. Conditioned mud to 81#/ft^3 and 53 seconds. Pressure tested 7" casing to 1000 psi for 10 minutes. Held o.k. Cleaned out cement and sand to 7544', 5' below WSO holes, and applied 1000 psi to casing. Pressure bled to 650 psi in 3 minutes. Circulated well.

9/9/75 Pulled out of hole with 6" bit and scraper. Picked up Baker Fullbore and ran back in hole to 7450'. Rigged up Halliburton pump truck. Obtained breakdown of WSO holes at 7539' with 12 ft^3/min. and 3100 psi. Pumped 25 ft^3 of water, followed by 115 ft^3 of class "G" neat cement, followed by 10 ft^3 water and displaced with 319 ft^3 of workover fluid. Encountered maximum pressure of 2250 psi with no buildup. Pumped cement past holes with 25 ft^3 of fluid.

9/10/75 Broke down holes at 7539' with 18 ft^3/min. and 3000 psi. Pumped 25 ft^3 water, followed by 115 ft3 of class "G" neat cement, followed by 10 ft^3 water and 169 ft^3 workover fluid which put cement at the tool. Closed tool and pressure went immediately to 4000 psi. Bled off and pressured again with same result. Opened tool and reversed out cement (full returns). Closed tool and pressured holes at 7539' to 4000 psi. Pressure bled off 100± psi in 5 minutes. Pulled out of hole with Fullbore. Ran in hole with 6" bit and scraper. Hit fill at 7516' (28' above holes). Cleaned out sand and cement to 7544'. Circulated hole.

9/11/75 Pulled bit and scraper out of hole. Ran in hole with Fullbore and set at 7419'. Broke down holes at 7539 with 8 ft^3/min. and 2000 psi. Pumped 25 ft^3 water, followed by 115 ft^3 class "G" neat cement, followed by 10 ft^3 water and displaced with 307 ft^3 workover fluid (4 ft^3 past tool). Waited 10 minutes and squeezed to 4000 psi. Bled off pressure and got 4 ft^3 returns. Opened tool and backscuttled. No cement returns. Pulled out of hole with Fullbore.

9/12/75 Ran in hole with 6" bit and scraper. Tagged top of cement at 7421'. Cleaned out cement to 7544'. Tested 7" casing and holes at 7539' to 1680 psi for 10 minutes. Held okay. Cleaned out cement and sand to 7551'. Pulled out of hole with bit and scraper.

9/13/75 Ran in hole with Baker retrieving tool. Washed out sand 7551' to 7560'. Pulled Baker latch-in plug out of packer at 7560'. Circulated and pulled out of hole with plug. Ran back in hole with Baker C-J packer mill.

9/14/75 Rig idle.

9/15/75 Milled packer loose. Pulled out of hole with packer. Made up 4" Economill and 5" scraper.

9/16/75 Ran in hole to junk at 7727'. Milled on junk to 7755'. Rubber and metal returns. Mill would go no deeper. Had difficulty pulling out of liner. Mill and scraper pulled very tight and hung up several times. Pulled out of hole. Recovered a 6" cylinder of metal on top of scraper segments that looked like the bottom of a model "D" packer. Lost two scraper segments. Laid down scraper. Ran in hole with Economill.

9/17/75 Milled junk 7755' to 7767'. Would not go deeper. Pulled out of hole (mill was tight in liner again). Laid down Economill. Picked up a Servco 4-1/8" junk mill. Ran in hole.

9/18/75 Had to rotate tools through top of liner. Milled out junk from 7767' to 7871'. Circulated hole clean. Pulled out of hole. Laid down mill and tools. Ran back in hole with Midway casing cutter.

9/19/75 Cut 5" liner at 7585'. Pulled out of hole with cutter. Ran back in hole with Midway spear and jars.

9/20/75 Stabbed spear into 5" liner and started jarring. Hanger came free after 45 minutes. Pulled out of hole with spear. Recovered Burns lead seal hanger and 25' of 5" liner. Ran back in hole with Servco 4-1/8" x 5-3/4" pilot mill #1.

9/21/75 Rig idle.

9/22/75 Conditioned to 81#/ft^3, 48 seconds. Milled 5" liner 7585' to 7620'. Made 35' in 6 hours when mill started sticking. Circulated and pulled out of hole.

9/23/75 Picked up Servco pilot mill #2 and ran back into hole to 7620'. Milled 5" liner from 7620' to 7674'. Made 54' in 9 hours. Circulated hole.

9/24/75 Continued milling liner to 7690'. Made 16' in 4 hours. Circulated and pulled out of hole. Made up Servco pilot mill #3. Ran back in hole. Weight: 81#/ft^3; viscosity: 48-49 sec.

9/25/75 Milled on 5" liner from 7690' to 7767'. Circulated hole.

9/26/75 Pulled out of hole. Picked up Servco pilot mill #4. Ran back in hole to 7767'. Continued milling liner to 7804'. Circulated hole.

9/27/75 Continued milling. Mill stuck at 7809'. Pulled mill free. Circulated and pulled out of the hole. Mill showed complete wear. Six joints showed complete wear at the collar and one joint showed a perforation on the body of the pipe. Picked up Servco mill #5 and ran back in the hole.

9/28/75 Rig idle.

9/29/75 Reamed hole to 7809'. Milled 5" liner from 7809' to 7843'. Pump lost efficiency and mill started torquing up. Replaced valves and heads in mud pump, and circulated hole.

9/30/75 Milled 5" liner from 7843' to 7867', bottom of hole. Circulated and pulled out of hole. Broke off Servco pilot mill. Picked up Tri-State 6" x 13" hole opener. Ran in hole.

10/1/75 Opened 6" hole to 13" from 7600' to 7681' (81' in 6 hours). Pulled out of hole. Cones showed very little wear and were frozen. Broke off opener and made up Tri-State opener #2. Ran in hole.

10/2/75 Reopened 6" hole to 13" hole from 7600' to 7656'. Circulated and pulled out of hole. Broke off opener #2. Made up hole opener #3 and ran in hole. Mud characteristics: 8#/ft^3, 45 seconds.

10/3/75 Opened 6" hole to 13" hole from 7656' to 7688'. Circulated and pulled out of hole. Lost all three cones. Made up hole opener #4. Ran in hole.

10/4/75 Opened 6" hole to 13" hole from 7688' to 7695' when the bearings on the rotary table gave out. Rig shut down at 12:00 noon to repair rotary table.

10/5/75 Rig idle.

10/6/75 Opened 6" hole to 13" hole from 7695' to 7710'. Circulated hole.

10/7/75 Pulled out of hole. Broke off opener. Made up 6-1/8" bit. Ran in hole and cleaned out fill from 7710' to 7858'. Bit would go no deeper. Circulated hole.

10/8/75 Pulled out of hole. Broke off bit. Made up hole opener #5. Ran in hole. Opened 6-1/8" hole to 13" from 7710' to 7741'. Circulated hole.

10/9/75 Pulled out of hole. Made up hole opener #6. Ran in hole. Opened 6-1/8" hole to 13" hole from 7741' to 7774'. Made 34' in 4 hours. Circulated and pulled out of hole.

10/10/75 Made up hole opener #7. Opened 6-1/8" to 13" hole from 7774' to 7802'. Circulated and pulled out of hole. Made up hole opener #8.

10/11/75 Ran in hole. Made no footage for two hours. Hole opener would bind completely at 7803'. Circulated and pulled out of hole. Pilot nose of hole opener #8 was twisted off, apparently stuck at 7803'. Decided to run a 6" junk mill but none was available this day.

10/12/75 Rig idle.

10/13/75 Made up Servco 6" junk mill. Ran in hole to 7807'. Milled down to 7865'. Circulated and pulled out of hole. Broke off junk mill. Made up Tri-State 6" x 13" hole opener #9.

10/14/75 Ran in hole. Opened 6-1/8" hole to 13" hole from 7807' to 7833'. Made 26' in 5 hours. Circulated and pulled out of hole. Made up hole opener #10. Ran in hole.

10/15/75 Opened 6-1/8" hole to 13" hole from 7833' to 7837'. Opener began to torque up. Pulled out of hole. Broke off opener. Made up a new Servco 6" junk mill. Ran in hole.

10/16/75 Milled on junk from 7837' to 7866'. Circulated and pulled out of hole. Broke off Servo mill. Made up Tri-State 6" x 13" hole opener #11. Ran in hole. Opened 6-1/8" hole to 13" hole from 7837' to 7847'. Made 10' in 2-3/4 hours. Circulated hole.

10/17/75 Pulled out of hole. Pilot nose was twisted off. Broke off opener and made up Servco 6" junk mill. Ran in hole.

10/18/75 Milled for 1-1/2 hours and made one foot to 7855'. Circulated and pulled out of hole. Broke off mill. Made up 6" x 13" Tri-State hole opener #12. Ran back in hole. Gauged 13" hole from 7600' to 7847'. Opened 6-1/8" hole to 13" hole from 7847' to 7850'. Circulated hole.

10/19/75 Rig idle.

10/20/75 Pulled out of hole. Broke off hole opener. Rigged up Welex wireline unit. Ran caliper log from 7850' to 7600. Broke out Welex equipment. Made up used Servco 6" junk mill. Ran in hole to 7850', no fill. Circulated hole and changed fluid to a new 81#/ft^3, 38 sec. system. Pulled out of hole.

10/21/75 Broke off mill. Measured and made up 394' of 5" liner as follows:

Top of liner		7454.55
Burns 5", 18# x 7", 29# lead seal hanger with hold down slips	3.57	7458.12
Burns port collar	2.40	7460.52
4 joints, 5", 18#, K-55 security	33.58	7494.10
flush joint slotted 2" x 30 mesh	17.12	7511.22
with top 10' blank, equipped with	33.70	7544.92
5 centralizing fins, 6" O.D., welded	36.91	7581.83
9 joints 5", 18#, N-80, 8 rd T & C	32.10	7613.93
0.018 gauge "Gru-V-Kut"	26.41	7640.34
wire/weld screen equipped	28.90	7669.24
with 8 B&W 5" x 13" centralizers	30.87	7700.11
at each joint	30.31	7730.42
	25.98	7756.40
	30.40	7786.80
	30.72	7817.52
	30.58	7848.10
5" bull plug	0.45	7848.55

Total liner length 394.00'

Also made up Burns liner hanger, Burns port collar and gravel packing tools. Landed liner at 7849' with top at 7455. Set Burns 7", 29# x 5", 18# lead seal hanger with hold down slips at 7455' and tested same to 1100 psi. Held okay. Rigged up Halliburton pump truck, Burns equipment, and began gravel packing.

10/22/75 Circulated in a total of 229 ft^3 of 8-12 gravel. Reversed out 4 ft^3. Total pack behind liner is 225 ft^3. Pulled out of hole. Broke off Burns gravel packing tools. Made up Burns wash tools. Ran back in hole.

10/23/75 Tagged fill at 7758 (92'). Washed perforations from that point to 7470' using Halliburton pump truck. Pulled to top of liner and circulated hole. Chained out of hole. Broke off Bruns wash tools. Made up Burns gravel packing tools and ran back in hole. Circulated in 12 ft^3 when gravel packed off. Backscuttled 4 ft^3 of gravel, leaving a total of 233 ft^3 of 8-12 gravel behind liner.

10/24/75 Pulled out of hole. Broke off Burns gravel packing tools. Made up sawtooth collar. Ran back in hole to 7849'. No sign of fill. Circulated and pulled out of hole. Made up Burns wash tools with thimbles turned down to 3-7/8". Ran back in hole.

10/25/75 Washed 5" liner from 7848' to 7470'. Pulled out of hole. Broke off Burns wash tools. Made up Burns gravel packing tools. Ran back in hole.

10/26/75 Rig idle.

10/27/75 Circulated hole. Pumped in 11 ft^3 of 8-12 gravel when liner packed off. Backscuttled 5 ft^3, leaving 6 ft^3 in place, making a total of 239 ft^3 of gravel packed behind liner. Closed Burns port collar and tested to 750 psi for 10 minutes. Held okay. Pulled out of hole. Broke out Burns gravel packing tools and equipment. Rigged up McCullough wireline unit. Made up casing inspection log tools. Logged down at 200 ft/sec. Logged casing up at 40 ft/sec. from 7450' to 4350' when tools shorted out. Pulled out of hole. Casing inspection tools could not be repaired in the field. Made up Baker model "D", 7", 29# packer. Ran and set packer at 7438'. Pulled out of hole and rigged down McCullough. Made up Baker model "D" latch-in plug.

10/28/75 Ran in hole. Set Baker latch-in plug in model "D" packer at 7438'. Tested plug and casing to 1100 psi for 10 minutes. Held okay. Conditioned hole fluid with inhibitors. Pulled out of hole laying down drill pipe. Mud: 80#/ft^3 (inhibited); 38 seconds.

10/29/75 Rigged up McCullough wireline unit. Ran casing inspection log from 7400' to surface. Broke out McCullough.

10/30/75 Rigged up Schlumberger wireline unit. Ran PAL log from 7400' to surface. Attempted to run ETT log. Tool failed.

10/31/75 Changed 3-1/2" pipe rams to 2-3/8" rams. Made up Baker latch-in plug retrieving tool. Measured in hole.

11/1/75 Pulled Baker latch-in plug from model "D" packer. Circulated and pulled out of hole. Laid down latch-in plug. Picked up a modified Baker latch-in plug which is turned down to 4.000 maximum I.D. Ran in hole and set latch-in plug in model "D" packer at 7438'. Tested plug by pumping down casing to 1000 psi for 10 minutes. Held okay. Circulated and pulled out of hole.

11/2/75 Rig idle.

11/3/75 Rigged up Schlumberger wireline unit. Ran ETT tools and logged hole from 7410' to surface. Rigged down Schlumberger. Replaced 2-3/8" pipe rams with 5-1/2" rams. Made up Burns 5-1/2", 17# x 7", 26# hookwall packer with a lead seal on bottom joint of 5-1/2", 17#, J-55 extreme line casing

11/4/75 Hydrotested in a total of 135 joints of 5-1/2" casing and set Burns hookwall packer at 5428'. Tested lead seal to 2500 psi for 10 minutes. Held okay.

11/5/75 Landed 5-1/2" casing with 60,000# on slips and 25,000# on hookwall packer. Installed packing, secondary seal flange, and 6" tubing head. Pressure tested packing and seal flange to 3500 psi for 20 minutes with no loss. Reinstalled B.O.P.E. Tested blind rams, 2-3/8" pipe rams and Hydril at 2500 psi for 15 minutes with no loss. D.O.G. declined to witness. Made up Baker latch-in plug retrieving tool on 2-3/8" tubing. Ran in hole.

11/6/75 Pulled model "D" latch-in plug from 7438'. Circulated hole clean. Pulled out of hole. Broke off plug and retrieving tool. Made up 2-3/8" tubing string as follows:

	Length	Depth
K.B.	9.00	9.00
Doughnut	0.60	9.60
3 pup joints 2-3/8"	8.80	18.40
237 joints, 2-3/8", 4.7#, J-55, 8 rd EUE tubing	7321.11	7339.51
Camco type "C" sliding sleeve (closed), 3.063 O.D., 1.938 I.D. (jar down to open) (closed)	2.79	7342.30
1 joint 2-3/8", 4.7#, J-55 tubing	31.10	7373.40
Camco safety system (empty)*, 4.531 max. O.D., 1.875 min. I.D.	23.33	7396.73
1 joint 2-3/8", 4.7#, J-55 tubing	31.12	7427.85
Baker blast joint, 3.062 O.D., 1.995 I.D.	10.05	7437.90
Otis type "XN" No-go ripple, 2.375 O.D., 1.791 I.D.	1.25	7439.15
Baker latch-in sub and 2 seal units, 3.25 max. O.D., 2.406 min. I.D.	3.00	7442.15

* See next page for detail

11/6/75 (Cont'd.)

	Length	Depth
Baker production tube, 2.375 O.D., 1.995 I.D.	5.80	7447.95

Note: There is no landing profile in Camco type "C" sliding sleeve.

Camco Safety System Detail

	Length
Hydraulic control sub, O.D. 4.531, I.D. 1.950	1.82
"DS" landing nipple, O.D. 2.750, I.D. 1.875	0.62
Ported production sub, O.D. 3.062, I.D. 1.938	3.80
10' blast joint, O.D. 3.062, I.D. 1.938	9.80
PCE-4 nipple, O.D. 4.531, I.D. 1.875	2.90
Flow coupling, O.D. 3.062, I.D. 1.938	3.98
1/2" hydraulic control pipe) mounted alongside) safety valve	
1/2" Monel slip joint) system	
2-7/8" x 2-7/8" collar	.41

Rigged up Hydrotest unit. Ran 2-3/8" tubing into hole, drifting and hydrotesting to 4000 psi. Latched tubing into model "D" packer at 7438', spaced out, installed doughnut and landed tubing with 16,000# on the packer. Locked down doughnut.

11/7/75 Rigged up Archer-Reed wireline unit. Ran and set an Otis 2-3/8" type XN locking Mandrel with a watermelon equalizer at 7437'. Pumped down annulus and pressured tubing and casing to 1250 psi. No pressure loss for 10 minutes. Could not recover plug. Operator suspects fill. Rigged down Archer-Reed. Installed back pressure valve in doughnut. Removed B.O.P.E. Installed production tree and tested same to 4650 psi for 20 minutes with no loss. Removed back pressure valve.

11/8/75 Rigged down and loaded out CPS rig #D-4. Displaced 81#/ft^3 inhibited brine-polymer workover fluid with 220 bbls of lease water.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County Aliso Canyon
Well name and No. I. W. #78, Sec. 27, T 3N, R 16W, S. B. & M.
A.P.I. well No. 037-21360 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date July 12, 1977.

Signature P S Magruder Jr

P. O. Box 3249, Terminal Annex, Los Angeles, California 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
6-9-77	Killed well with 433 barrels of 76#/cu.ft. polymer drilling fluid. Circulated 30 minutes.
6-10-77	Circulated 60 minutes. Bled off 150 psi of gas. Mud weight returned 76#/cu.ft.
6-15-77	Moved rig and equipment from Porter #47 to I.W. #78. Rigged up.
6-16-77	Circulated gas cut polymer workover fluid out and free from gas. Took 50 barrels to obtain circulation. Installed plug in doughnut. Removed Christmas tree.
6-17-77	Installed Class III 5000 psi B.O.P.E. Tested blind rams and pipe rams with water at 4000 psi. Tested Shaffer bag with water at 3000 psi. Witnessed by Peter Wygle. Tested blind rams and pipe rams with nitrogen at 4000 psi. Tested Shaffer bag with nitrogen at 3000 psi.
6-18-77	Unlatched from Baker Retrieva-"D" packer, Circulated bottoms up. Pulled and measured out of hole. Ran in hole with 8 5/8" casing scraper and 7 5/8" bit to top of Baker Retrieva-"D" packer. Circulated bottoms up. Pulling out.
6-19-77	Rig and crew idle.
6-20-77	Pulled out of well with bit and scraper. Ran in well and set D.R. plug in Model "D" packer at 7188'. Changed over from polymer drilling fluid to fresh water with surface tension agent. Pulled out of well. Ran in well with full bore and set at 5413'. Tested from 5413' to 7188' with 1900 psi for 65 minutes - O.K.
6-21-77	Unable to obtain test at 5413' with Baker fullbore. 1003' tested with 4000 psi for 60 minutes) 2108' " " 3500 psi " 60 ") 2482' " " 3300 psi " 60 ") All tests O.K. 3037' " " 3100 psi " 60 ") 3527'-7188' " 2900 psi " 60 ")

OG103 (6/76 GSR) (OM)

Shot holes at 3165' - leaking. Pulled out of well. Ran bridge plug and fullbore in well.

6-22-77 Tested casing, as follows:

3200' to 3500'	at 2900 psi	for 60	minutes	)
3500' " 4000'	" 2700 psi	" 60	"	)
4000' " 4300'	" 2500 psi	" 60	"	) All tests O.K.
4300' " 4800'	" 2300 psi	" 60	"	)
4800' " 5400'	" 2100 psi	" 60	"	)

Pulled bridge plug and re-set at 3244'. Pulled out of well with fullbore. Ran in well open-ended to 3240'. Spotted 10 sacks of sand. Pulled out of well. Ran in well with fullbore to squeeze leak at 3165'.

6-23-77 Ran in well with Baker fullbore retrievable cementer. Located top of sand above bridge plug at 3220'. Pulled up and set fullbore packer at 3060'. Squeezed holes at 3165' with 200 sacks of Class "G" Neat cement. Final build-up pressure at 3500 psi. Cement in place at 8:30 A.M. Pulled out of well with fullbore packer. Ran in well to 2500± with bit and scraper.

6-24-77 Ran in well with 7 5/8" bit and scraper. Drilled out cement from 3155' to 3200'. Circulated hole clean. Tested cement job #1 - no good. Pulled out of well. Ran in with squeeze tool and set at 3060'. Breakdown at 2200 psi at 10 cu.ft./minute. Squeeze job #2 - cemented with 300 sacks of Class "G" cement, displaced with 150 cu.ft. water with no build up. Squeeze job #3 - cemented with 200 sacks of Class "G" cement, displaced with 135 cu.ft. water building up to 2200 psi. Pulled out of well.

6-25-77 Drilled out cement from 3155' to 3200'. Circulated hole clean. Tested holes at 3165' with 2000 psi - same leaked. Holes broke down under 2800 psi at 8 cu.ft./minute. Pulled out of well. Ran in hole and set squeeze tool at 3000'. Pumped 70 cu.ft. of Class "G" cement with 10% Cal Seal. Squeeze tool would not close. Unable to close B.O.P. Closed B.O.P. with N_2 - unable to backscuttle. Drilled out cement to 3200' with bit and scraper. Circulated hole clean.

6-26-77 Rig and crew idle.

6-27-77 Ran in with 7 5/8" bit. Located top of cement at 3184'. Ran in with open-ended tubing to 3151'. Equalized 50 sacks of Class "G" cement mixed with 10% Cal Seal. Pulled out to 2900' and reverse circulated with 100 cu.ft. of water. Displaced 14 cu.ft. of cement through leak at 3165' under 3500 psi final pressure. Bled back 12 cu.ft. Cement in place at 9:15 A.M. Drilled out soft cement from 3004' to 3064' (60').

6-28-77 Drilled out cement with 7 5/8" bit from 3075' to 3200' (125'). Circulated hole clean. Pressure tested 8 5/8" casing and leak at 3165' with 1500 psi final pressure from 3200' to surface for one hour - test O.K. Drilled out cement to 3244'. Circulated hole clean. Pulled out and picked up Baker retrieving tool. Ran in to top of bridge plug. Circulated hole clean. Released bridge plug and pulled out to 3000'.

6-29-77 Finished pulling out of well with bridge plug. Ran in well with Baker DR plug retriever. Changed over to polymer drilling fluid. Pulled DR plug. Pulled out of well - did not recover plug. Ran in well with new retrieving tool. Pulled DR plug.

6-30-77 Finished pulling DR plug. Installed lubricator and ran Neutron Log with collar Locator Log from 4000' to 2000'. Ran "GO-International" 40' casing patch with Johnston Collar Locator - did not work. Set patch from 3140' to 3180' over leak at 3165'. Pulled out of well. Ran in to 2000'.

7-1-77 Pulled out of well. Picked up safety system with production tube, four seals and latch-in locator. Running 2 7/8" J-55 8rd tubing, changing collars and cleaning pins.

7-2-77 Hydrotest tubing in well to 5000 psi for one minute. Changed collars, cleaned pins and applied Baker Seal. Landed tubing on Baker Model "D" packer at 7198' with 10,000# on packer. Pulled 25,000# over weight of tubing to check latch. Installed Christmas tree and tested to 5000 psi. Tubing hook load 46,000#.

7-3-77 Rig and crew idle.

7-4-77 (Holiday) Rig and crew idle.

7-5-77 Circulated out polymer drilling fluid with lease salt water. Ran and set plug in NO-GO nipple at 7177'. Tested packer and seals under 1800 psi for 20 minutes. Pulled plug from NO-GO nipple. Released rig at 2:00 P.M.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 32 D Sec 27 T3N R16W S.B.B.M.
A.P.I. No. 03721355 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
12/9/2014	Obtained a hot work permit. Built and installed four 7" x 10' stanchions inside the cellars on the Porter 32E and the Porter 32F wells. Removed the handrails on the wells Porter 32E and Porter 32F. Installed three 1" crossing plates over the top of Porter 32E and Porter 32F. Spotted two closed top tanks. Filled the tanks with 800 bbl of 9 ppg NaCl brine.
12/10/2014	Continued to move the Rival Rig #12 rig from Porter 42B to Porter 32D. Removed the blind flange and the lateral lines. Installed a safety cage over Porter 32 C well. Rigged up the Rival Rig #12 rig and associated equipment. Rgged up the Onyx portable gas separator.
12/11/2014	Opened the well with 2610 psig surface pressure on the tubing and 2605 psig surface pressure on the casing. Pumped 40 bbl of 9 ppg high viscosity NaCl pill down the tubing and displaced with 43 bbl of 9 ppg NaCl brine. Opened the choke on the gas separator and killed the well with 418 bbl of 9 ppg NaCl brine using the Oryx Gas Separator. Installed the BPV and rigged down the production tree. Installed a 2-7/8" pup and TIW valve in the tubing hanger. Rigged up the riser spools and the Class III 5M BOPE and secured the well.
12/12/2014	Continued to rig up the 11" Class III 5M BOPE and installed the rig floor. Pressure tested the pipe rams, the mud cross valves and the choke manifold to 300 psig (low) and 5000 psig (high). Pressure tested the TIW valves and IBOP to 300 psig (low) and 5000 psig (high). Pressure tested the annular preventer to 300 psig (low) and 3500 psig (high). Alll tests held for 15 minutes each. Recorded on a test chart. BOPE inspected by Mr. Cliff Knight, DOGGR. Secured the well.
12/15/2014	Opened the well with the tubing and the casing on a slight vacuum. Filled the well with 42 bbl of 9 ppg NaCl brine. Backed out the tubing hanger lock screws. Picked up on the completion tubing and released the Baker latch and seal assembly from the Retrieva D Packer at 7352'. Laid down the tubing hanger and the pup joints. Assisted in closing in P 32E and P 32F and blowing down the lateral lines. Moved in the tubing trailer. Laid down 129 joints of 2-7/8", 6.5# N-80 tubing and secured the well.
12/16/2014	Filled the well with 36 bbl of 9.0 ppg NaCl brine. Finished laying down the 2-7/8" N80 production string. Found a broken pin on the lower blast joint connection to the top of the Otis XN nipple. Left the 2-7/8" Otis XN nipple, one joint of 2-7/8" N-80 tubing and the Baker Latch/Seal Assembly in the hole. Move out the tubing trailer. Moved in trailer with the 2-7/8" P110 KC workstring tubing. Measured in the hole with 123 joints of 2-7/8" P110 KC workstring tubing, a bumper sub and a 8-5/8" positive casing scraper to 3832' and secured the well.
12/17/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 42 bbl of 9.0 ppg NaCl brine. Finished running in the hole with the 8-5/8" 36# casing scraper from 3832' to the top of the fish (Otis XN Nipple) at 7320'. Pulled out of the hole and laid down the 8-5/8" casing scraper. Picked up one joint of 7-3/8" wash pipe with a cut lip shoe on the 2-7/8" P-110 workstring. Ran in the hole to 3215' and secured the well.
12/18/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 41 bbl of 9.0 ppg NaCl brine. Finished running in the hole with the 7-3/8" wash pipe and the cut lip shoe. Worked over the fish at 7320'. Rigged up the power swivel and cleaned out fill from 7320' to 7343'. Reverse circulated the well clean. Pulled out of hole to 3220' and secured the well.
12/19/2014	Opened the well with 304 psig on the tubing. Bled off the pressure and circulated the well with 195 bbl of 9 ppg NaCl brine. Pulled out of the hole to 687' and the tubing began flowing. Ran in the hole to 3220' and installed PGSR to direct displacement to the pump tank. Filled the tubing and continued running in the hole to 7267'. Filled the tubing and broke circulation and secured the well.
12/22/2014	Opened the well with 0 psig surface pressure on the tubing (IBOP in place) and 50 psig surface pressure on the casing. Filled the well with 60 bbl of 9 ppg NaCl brine. Circulated the gas cut brine from the well. Monitored high winds gusting in excess of 40 mph, secured the well.

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HISTORY OF OIL OR GAS WELL

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Well Porter 32 D Sec 27 T3N R16W S.B.B.M.
A.P.I. No. 03721355 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
12/23/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 26 bbl of 9 ppg NaCl brine. Pulled out of the hole with the 7-3/8" cutlip shoe pumping a tubing volume every 30 stands. Rigged up the rotary tongs and laid down the cutlip shoe. Made up a 7-1/2" wavy bottom shoe on one joint of 7-3/8" wash pipe on the 2-7/8" workstring. Ran in the hole to 4,800' and secured the well.
12/29/2014	Bled 27 psig form the casing and 180 psig from the tubing. Pumped 30 bbl of 9 ppg NaCl brine down the tubing. Filled the casing with 43 bbl of 9 ppg brine. Finished running in the hole with the 7-1/2" wavy bottom shoe from 4800'. Rigged up the power swivel and worked the shoe over the fish at 7320'. Cleaned out asphaltenes to 7341' with a low penetration rate. Pulled the rotary shoe to 7292' and secured the well.
12/30/2014	Filled the well with 34 bbl of 9 ppg NaCl brine. Circulated the well with 430 bbl of 9 ppg NaCl brine. Pulled out of the well to 3219'. Shut down operations due to high winds and secured the well.
12/31/2014	Filled the well with 37 bbl of 9 ppg NaCl brine. Unable to trip pipe due to the high winds gusting to 51 mph. Secured the well.
1/5/2015	Opened the well with 0 psig surface pressure on the casing and 18 psig on the tubing. Bled the well down and filled the well with 100 bbl of 9 ppg NaCl brine. Monitored high winds at 40 to 55 mph and secured the well.
1/6/2015	Filled the well with 65 bbl of 9 ppg NaCl brine. Monitored high winds at 40 to 48 mph and secured the well.
1/7/2015	Monitored the winds at 40- 44 mph. Winds dropped to 30 mph at 11 am. Filled the well with 35 bbl of 9 ppg NaCl brine. Pulled out of the well from 3220' and laid down the 7-1/2" rotary shoe. Made up a new 7-1/2" wavy bottom rotary shoe on the 2-7/8" workstring. Picked up four, 4-3/4" drill collars. Ran in the hole to 7320' and secured the well.
1/8/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 37 bbl of 9 ppg NaCl brine. Rigged up a 3.5 power swivel. Tagged the top of the fish at 7331'. Rotated 1/4 turn and dropped over the fish. Lowered the shoe and at tagged at 7340'. Rotated and worked the 7-1/2" shoe down to 7352'. Had metal shavings in returns. Circulated the well clean. Rigged down the power swivel. Pulled out of the hole and stood back the drill collars. Rigged up the rotary tongs and laid down the shoe. Found the tubing stuck inside the wash pipe. Laid down the wash pipe; recovered XN profile, one joint of tubing (broken in half) and the locator sub from the top of the seal assembly. Ran in the hole open ended to 3210' and secured the well.
1/9/2015	Filled the well with 90 bbl of 9 ppg NaCl brine. Pulled out of hole with the kill string. Made up 7" magnet on the 2-7/8" workstring. Ran in the hole to 7156' and secured the well.
1/12/2015	Opened the well with 60 psig surface pressure on the casing. Bled off the pressure. Picked up two joints of the 2-7/8" P110 KC workstring tubing. Magnet hanging at 7328'. Filled the well with 78 bbl of 8,5 KCl brine. Circulated the gas out of the well with 430 bbl of KCl brine. Tagged the top of the packer at 7352' with magnet. Pulled out of the hole and laid down the magnet (Had fine metal shavings on magnet). Made up a 10' x 2-1/16" mule shoe joint on the 2-7/8" workstring. Ran in the hole to the top of the packer at 7352'. Turned the mule shoe 1/4 turn and dropped into the packer. Lowered the 2-1/16" mule shoe joint through the seal assembly (seal assembly still lodged inside packer). Sat down with 4 klb on the seal assembly several times. No movement. Pulled the tubing tail to 7302' and secured the well.
1/13/2015	Filled the well with 105 bbl of 8.5 ppg KCl. Pull out of the well the and laid down the 2-1/16" tubing tail joint. Made up a 2-1/4" mule shoe x 3-5/8" spear stop on a 3-1/2" lead collar, a drain sub, a bumper sub and four, 4-3/4" drill collars on the 2-7/8" workstring. Located the top of the packer at 7352'. Worked the mule shoe into the packer 5 feet and tagged the seal assembly with the 3-5/8" spear stop at 7352'. Used the spear stop to drive the seal assembly and the production tube out the bottom of the packer. Lowered the 3-5/8" spear stop to 7362'. Pulled the tubing tail to 7302' and secured the well.

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HISTORY OF OIL OR GAS WELL

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Well Porter 32 D Sec 27 T3N R16W S.B.B.M.
A.P.I. No. 03721355 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
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Start Date	Ops this Report (DOGGR)
1/14/2015	Filled the well with 90 bbl of 8.5 ppg KCl brine. Picked up tubing and lowered the mule shoe and the spear stop through the packer at 7352' down to 7362' (No restrictions.). Pulled to 7335' and circulated the well with a total of 420 bbl of 8.5 ppg KCl brine while monitoring the wellsite wind conditions. Pulled out of the hole and stood back the drill collars. Laid down the bumper sub and the spear stop. Made up an 8-5/8" 36# casing scraper on the 2-7/8" workstring. Ran in the hole to 3750' and secured the well.
1/15/2015	The well required 85 bbl of 8.5 ppg KCl brine to fill. Continued running in the well with the 8-5/8" casing scraper from 3705' to the top of the packer at 7352'. Pulled out of the hole and laid down the 8-5/8" casing scraper. Picked up an 8-5/8" Lok-Set Bridge Plug on the 2-7/8" workstring. Ran in the hole to 1000', set and tested the bridge plug to 500 psig surface pressure (Good). Released the bridge plug and ran in the hole and tagged the packer at 7352'. Picked up 5' and set the bridge plug at 7343'. Pulled the bridge plug retrieving tool to 7302' and secured the well.
1/16/2015	Filled the well with 95 bbl of 8.5 ppg KCl brine. Circulated the well with 430 bbl of 8.5 ppg KCl brine. Pressure tested the bridge plug at 7343 (COE) to 500 psig surface pressure for 10 minutes (Good test). Dumped 2 cu. ft of sand and displaced with 35 bbl of KCl brine. Pulled the tubing to 2000' and secured the well.
1/19/2015	The well was standing full of 8.5 ppg KCl brine. Pulled out of the hole from 2000'. Filled the hole with 8.5 KCl brine. Installed the 7" shooting flange. Moved in and rigged up the Schlumberger wireline unit to run the USIT - CBL- CNL - GR log. Ran in the hole with the logging tools and logged from 7331' to the surface. Rigged down and moved out the Schlumberger wireline unit and secured the well.
1/20/2015	Made up an 8-5/8" test packer on the 2-7/8" workstring. Ran in the hole to 522', set the test packer and pressure tested the 2-7/8" tubing x casing annulus to 3100 psig for 15 minutes (Lost 40 psig). Relased the test packer and ran in the hole to 5802'. Pressure tested the casing to 1000 psig surface pressure from 5802' to the bridge plug at 7332'(lost 85 psig in 15 minutes). Pressure tested the casing to 1000 psig from 5802' to the surface for 15 minutes (Good test). Relased the test packer and pulled to 5010'. Pressure tested the casing from 5010' to the surface at 1300 psi for 15 minutes (Good test). Released the test packer and ran in the hole to 6595'. Pressure tested the casing from 6595' to the surface at 1000 psig for 15 minutes (Good test). Pressure tested the casing from 6595' to the bridge plug at 7343' to 1000 psig for 15 minutes (Lost 100 psig) and secured the well Note: All pressure tests recorded on pressure chart.
1/21/2015	Ran in the hole with the test packer from 6595' and tagged sand on top of the retrievable bridge plug at 7331'. Set the test packer at 7321' and pressure tested tubing x casing annulus to the surface to 1000 psig for 15 minutes (Good test). Pressure tested the casing and RBP from 7321 to 7343' to 1000 psig (Bled down 300 psig in 8 minutes). Pulled the test packer to 4506', set the test packer and pressure tested the casing from 4506' to the surface at 1500 psig for 15 minutes (Good test). Released the test packer and pulled to 4000'. Set the test packer and pressure tested the casing from 4000' to the surface at 1700 psig for 15 minutes (Good test). Released the test packer and pulled to 3496'. Set the test packer and pressure tested the casing from 3496' to the surface at 1900 psig for 15 minutes (Good test). Relased the test packer and pulled to 2990'. Set the test packer and pressure tested the casing from 2990' to the surface at 2100 psig for 15 minutes (Good test). Released the test packer and pulled to 2484'. Set the test packer and pressure tested the casing from 2484' to the surface at 2300 psig for 15 minutes (Good test). Released the test packer and pulled to 1502'. Set the test packer and pressure tested the casing from 1502' the surface to 2700 psig for 15 minutes (Good test) and secured the well. Note: All pressure tests recorded on chart recorder.
1/22/2015	Pulled out of the well from 1500' with the test packer. Laid down the test packer. Made up an 8-5/8" Lok-Set bridge plug on the 2-7/8" workstring. Ran in the hole to 2035' and set the bridge plug. Pressure tested the casing to 1200 psig for 10 minutes (recorded on test chart; Good test). Spotted 4 sacks of sand on top of the bridge plug. Pulled out of the hole with the 8-5/8" retrieving head. Rigged down the working floor and the tubing tools. Nippled down the Class III 5M BOPE, the mud cross and the riser. Installed the production tree. Removed the bottom nuts from the 13-5/8" 5M Seal Flange. Attempted to pull the tubing head and the seal flange with rig blocks with no success. Unable to get a hot work permit to cut the wellhead bolts due to high winds. Secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 32 D Sec 27 T3N R16W S.B.B.M.
A.P.I. No. 03721355 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
1/23/2015	Obtained a hot work permit. Cut the wellhead bolts with a grinder and removed the 9"5M x 13-5/8" 5M tubing head and the seal flange. Pulled the primary seals from 13-5/8" casing head. Nippled up a crossover spool, the production tree, and secured the well.
1/26/2015	Finished removing the bolts stuck in the 13-5/8" casing head. Cleaned the location while waiting on tubing head and seal flange repairs and secured the well.
1/27/2015	Removed the spool and the tree. Installed new 8-5/8" x 13-5/8" primary packoff seals. Installed the refurbished 13-5/8" DSA/Seal Flange and the refurbished tubing head. Pressure the tested primary seals and the secondary seals to 400 psig (low) and 2760 psig (high) for 15 minutes each (recorded on a test chart; Good tests). Nippled up the 11" Class III 5M BOPE. Shell tested to 1500 psig for 15 minutes (recorded on a test chart; Good test). Laid the 4-3/4" drill collars down. Ran in the hole with the 8-5/8" bridge plug retrieving tool to 1565' and secured the well.
1/28/2015	Ran in the hole with the 8-5/8" bridge plug retrieving tool from 1565' to the Lok-Set bridge plug at 2035'. Rigged up and reverse circulated the sand off the top of the 8-5/8" retrieveable bridge plug. Released the 8-5/8" bridge plug and pulled out of the well, and laid down 64 joints of 2-7/8" P-110 KC workstring tubing down. Laid down the 8-5/8" bridge plug. Ran in the hole with open-ended 2-7/8" workstring to 5300' and laid down 72 joints of the 2-7/8", P110 KC workstring tubing. Secured the well with the tubing tail at 3000'.
1/29/2015	Swapped the tubing trailers and laid down 99 joints of the 2-7/8", 6.5# P-110 KC workstring tubing. Swapped the worksting trailer out for the new 2-/7/8" production tubing. Picked up the 8-5/8" bridge plug retrieving tool. Measured and picked up 142 joints of new 2-7/8", 6.5# L-80 completion tubing. Secured the well with the completion tubing tail at 4475'.
1/30/2015	Continued picking up new 2-7/8" 6.5# L-80 completion tubing. Ran in the hole from 4475' and tagged the sand on top of the bridge plug at 7331'. Installed the PGSR spool and secured the well.
2/2/2015	Reverse circulated the sand from 7331' to the retrievable bridge plug at 7243'. Released the bridge plug and pulled out of the hole. Laid down the 8-5/8" retrieveable bridge plug. Found a bad spot on drilling line and secured the well. Replaced the drilling line. Picked up 15 joints of 2-1/16" tubing with a mule shoe pup. Crossed over to 2-7/8" eue. Ran in the hole to 2795 and secured the well.
2/3/2015	Filled the well with 81 bbl of8.5 ppg KCl brine. Continued running in the hole with 2-1/16" mule shoe and tubing from 2795'. Worked thru the Retrieva D packer profile at 7352' and tagged fish/fill at 7719'. Rigped up an reverse circulated down to 7726' (Unable to clean out further). Reverse circulated the well clean. Pulled out of hole to 2800' and secured the well. Note: Top of the fish is at 7726'. Fish consists of a Baker anchor latch, (2) molded seal units and a Model E Production tube, 8,87' overall length. The 5.25" O.D. top sub above the seal assembly latch was recovered during the fishing operations.
2/4/2015	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 84 bbl of 8.5 ppg KCl brine. Pulled out of the well from 2800' and laid down 15 joints of 2-1/16" tubing and the mule shoe. Picked up a 2-7/8" L-80 mule shoe joint, 1 joint of 2-7/8" L-80, 8-5/8"Weatherford Arrowset 1X Packer, a 8' x 2-7/8" L-80 pup, 1 joint of 2-7/8" L-80, a 2.312" WXN Profile Nipple, 1 joint of 2-7/8" L-80, a 2.213" WXO Sliding Sleeve, 1 joint of 2-7/8" L-80 tubing, a 2-7/8" GLMA - 1.0 SL, 231 joints of 2-7/8", 6.5#, L-80 tubing, Tagged the top of the Retrieva D packer at 7352' with the bottom of the 8-5/8" Arrowset Packer. Circulated 150 bbl of 8.5 ppg KCl brine with corrosion inhibitor down the tubing at 2 bpm. Laid two joints of 2-7/8" tubing down. Made up a 4' x 2-7/8" L-80 pup, a fatigue nipple and the tubing hanger. Set the 8-5/8" Arrowset 1X Packer at 7296' (COE). Landed the 2-7/8" completion tubing with 14 klb compression. The tail of mule shoe joint is located at 7364'. Filled the annulus and ran lock screws above the tubing hanger. Pressure tested the 2-7/8" completion tubing x 8-5/8" casing annulus to 1000 psig for 15 minutes (Recorded on a test chart; Good test). Secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 32 D Sec 27 T3N R16W S.B.B.M.
A.P.I. No. 03721355 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
2/5/2015	Opened the well with a slight blow on the tubing. Pumped 10 bbl of 8.5 KCl brine down the tubing (Tubing on a vacuum). Rigged down the tubing tools and the rig floor. Nippled down the Class III 5M BOPE stripping over pup joint and the TIW valve. Installed BPV and installed the production tree. Tested void to 300 psig (low) and 5000 psig (high) for 15 minutes each (recorded on a test chart). Rigged down and moved out the BOPE, the accumulator, the choke manifold and the tubing tools. Laid the mast down and cleaned the location.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Compan Field Aliso Canyon County Los Angeles
Well IW #81, Sec. 27, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-21363 Name J. W. Gourley (Person submitting report) Title Agent (President, Secretary or Agent)
Date March 13, 1986

Signature N.W. Buss for J.W. Gourley

Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address)

(213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO No.: 99588 was issued to set casing patch in well
1985	
12-18	Moved Sierra Production Service Rig #436 and rigged up. Circulated 450 bbls. 63#/cu.ft. polymer completion fluid. Raised derrick.
12-19	Installed back pressure valve. Removed xmas tree. Installed mud cross, BOPE and Hydril. Nippled up BOPE, manifold and kill lines. Pressure tested pipe rams, blind rams to 3000 psi for 20 minutes. Manifold leaked. Tested Hydril to 2300 psi. Broke out and changed manifold. Pressure tested manifold to 3000 psi. BOPE inspection waived by the D.O.G. Attempted to release latch-in-locator. Tubing collar pulled off. Recovered doughnut, 3 pup joints, 8 joints of 2-7/8" tubing. Fish is 2-7/8" tubing.
12-20	Made up overshot. Ran in well. Caught fish. Worked on stuck fish. Rigged up and ran free point and found pipe free to 7361'. Ran chemical cutter. Cut tubing at 7345' (middle of joint below mandrel). Left in well Camco annular flow safety system, blast joint, No-Go nipple, blast joint, Baker latch-in-locator, Baker 4 seal sting-in; total of 65'. Pulled tubing. Laid down overshot. Pulled 16 stands. Secured tubing in derrick.
12-21	Moved accumulator and BOPE lines. Unloaded drill collars and fishing tools. Made pictures of tools. Covered cellar. Secured tubing in derrick.
12-23	Started pulling tubing out of well. Pulled 32 stands, winds rising. Ran 16 stands back in well. Secured tubing in derrick.

1985

12-24 Moved wash pipe, 4-1/2" drill collars, jars, bumper sub. Ran in well with all 2-7/8" J-55 tubing. Pulled out of well. Laying down tubing to 3854'.

12-25 Holiday.

12-26 Removed working platform. Unloaded and placed sub-base and rotary table. Loaded out tubing; unloaded and rigged up pipe racks. Unloaded 2-7/8" drill pipe, pulling J-55 kill string.

12-27 Rigged up rotary tongs, stand pipe; straightened up monkey board. Installed water regulator. Laid down remainder of 2-7/8" J-55 tubing. Made up fishing tools, overshot, jars and bumper sub, 6 drill collars and 2-7/8" drill pipe. Worked over fish. Set overshot and jarred on fish for 3-1/2 hours. No movement.

12-28 Released fish and pulled out of well with fishing assembly. Picked up Kelly and Kelly hoses. Rebuilt pitcher nipple. Made up washover shoe, 3 joints of wash pipe, drive sub, jars, two drill collars, crossover sub, 2-7/8" drill pipe and ran in well. Flowing over, running very slowly to 7021'.

12-30 Ran in to top of packer at 7417'; no fill. Circulated bottoms up. Pulled out of well, set back and broke down tools. Made up fishing assembly. Ran in well. Worked over fish. Jarred on fish until overshot would not hold. Pulled out of well. Redressed overshot. Ran in well to 2080'.

12-31 Worked over fish, jarring on same. Rigged up and ran in well with string shot. Could not enter fish. Pulled string shot. Made up spud tool and 6 sinker bars but could not enter fish. Pulled out wireline. Tried for manual backoff. Backed off at 3800'. Screwed back into drill pipe.

1986

1-1 Holiday.

1-2 Pulled out of well. Broke down tools. Made up outside cutter fishing tool. Ran in well to 7364'. Tried cut. Pulled out of well. All knives broken off. Replaced outside cutter. Ran in well with outside cutter #2 to 7263'.

1986

1-3 Made cut at 7367' and pulled out of well. Made up overshot, bumper sub, jars, six 4-3/4" drill collars and 2-7/8" drill pipe. Ran in well. Worked overshot over fish at 7367'. Set off jars once. Rigged up string shot. Ran in well. Tried for backoff at bottom of No-Go nipple. Pulled out and laid down string shot.

1-4 Finished pulling out of well with fish. Retrieved 2-7/8" EUE 8rd blast joint (19.83') and Camco annular flow safety system (15.2') and .50' of 2-7/8" tubing cutoff. Made up skirted guide pup joint and on and off tool. Ran in well to 7406'; screwed into fish. Ran wireline with impression block and with spud tool. Cleared No-Go nipple. Pulled out of well; laid down 2-7/8" drill pipe.

1-6 Laid down 2-7/8" drill pipe, drill collars and Kelly. Loaded out 2-7/8" drill pipe, drill collars and kelly. Unloaded 7000' 2-7/8" tubing. Rigged up and ran ring gauge and collar locator. Made up casing patch. Ran in well. Set patch with top at 3003', bottom at 3025' with 6.57" I.D. Rigged down wireline. Rigged up Hydro-Test and tongs. Rigged to run production equipment. Changed to chamfered collars.

1-7 Rig shut down due to high winds.

1-8 Rigged up Hydro-Test, H&H and Wood's tongs. Continued picking up 2-7/8" tubing and changed over to chamfered collars below 2900'. Used 145 collars. Ran a total of 176 joints to 5552'.

1-9 Finished running 2-7/8" tubing, hydrotesting to 5000 psi. Latched into Baker packer at 7396'. Pulled 20,000# over weight. Set 6,000# on packer when landed in doughnut. Installed xmas tree and tested to 5000 psi. Rigged up wireline. Ran in well and opened sliding sleeve. Rigged down wireline. Rigged up and changed from polymer completion fluid to KCl inhibited salt water.

1-10 Rigged down and released at 9:00 p.m., 1-10-86.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Dates/Revs 12/3/82

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well Porter #4, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00699 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 22, 19 82

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	GWO #98941 was issued to plug back and convert Porter #4 to observation well.
1982	
10-14	1st Day. Rig on stand-by. Ran radioactive tracer log.
10-15	2nd Day. Pumped 140 bbls of polymer completion fluid to kill well. Circulated gas cut fluid out of well.
10-16	3rd Day. Rig on stand-by. Killed well with 83#/cu. ft. polymer completion fluid. Circulated well with no surface pressure.
10-18	4th Day. Circulated well for 40 minutes with good returns. Installed back pressure valve in doughnut. Removed xmas tree and installed BOPE. Pressure tested blind rams, 2-3/8" pipe rams and choke manifold to 4000 psi with water. Pressure tested Hydril bag to 3000 psi with water. Unlatched from packer and circulated for 2 hours. Pulled 13 stands of 2-3/8" tubing.
10-19	5th Day. Bled 250 psi off 2-3/8" x 5-1/2" annulus and circulated for 1 hour. Pulled 2-3/8" 8Rd tubing and removed Otis annular flow safety valve mandrel. Ran back in well to 7536' and circulated for 2 hours. Pulled 2-3/8" 8Rd out of well and layed down 88 joints of 2-3/8" Hydril super flush joint tubing.
10-20	6th Day. Set bridge plug at 270'. Unlanded 5-1/2" 17# casing and removed slips. Removed BOPE and tubing head. Installed BOPE. Pulled bridge plug. Pulled 1 joint of 5-1/2" 17# casing. Circulated for 2 hours.
10-21	7th Day. Pulled and layed down 127 joints of 5-1/2" 17# J-55 casing. Set bridge plug at 80'. Pressure tested flanges and blind rams on BOPE to 3000 psi. Pulled bridge plug. Moved 175 joints of 2-7/8" tubing on location. Running into well with Baker C-J milling tool, junk sub and four 4-3/4" drill collars on 2-7/8" tubing.

10-22-82 8th Day. Finished running in with Baker C-J milling tool. Stabbed into Baker Model "D" packer at 5065'. Milled for 9 hours. Unlatched from packer and pulled out of well. Ran in with another Baker C-J milling tool, junk basket, four 4-3/4" drill collars and 2-7/8" tubing to 4619'.

10-23 9th Day. Stabbed into Baker Model "D" packer at 5065' with Baker C-J milling tool. Milled for 6 hours. Circulated for 1 hour. Pulled out of well. Retrieved inside mandrel of packer, leaving the bottom two cones of the packer and junk on top of 5-1/2" liner at 5091'.

10-25 10th Day. Ran in with 7-5/8" junk mill, junk sub, four 4-3/4" drill collars and 2-7/8" tubing. Milled for 10 hours.

10-26 11th Day. Pulled out of well with mill. Ran in with 4-5/8" bit and 5-1/2" 17# casing scraper to junk at 5090'. Pulled out of well. Ran in with another 7-5/8" junk mill, junk sub, four 4-3/4" drill collars and 2-7/8" tubing. Milled for 6 hours on junk at 5090'. Pulled up 4 stands.

10-27 12th Day. Milled on junk at 5090' for 5 hours. Pulled out of well. Ran in well with 7" magnet on 2-7/8" tubing. Set down on junk at 5090' for 20 minutes. Pulled out of well. Recovered cuttings on magnet. Ran back into well with 7" magnet to 5089' and circulated for 30 minutes. Set down on junk at 5090' for 30 minutes. Pulling out of well.

10-28 13th Day. Pulled out of well with 7" magnet. Recovered metal cuttings. Ran in well with 7-5/8" mill, junk sub, four 4-3/4" drill collars and 2-7/8" tubing. Milled for 4 hours on junk from 5090'-5091'. Circulated for 1 hour. Pulled out of well. Ran in with 4-3/4" mill, junk sub, four 3-1/8" drill collars. Milled on junk at 5091' for 1 hour. Circulated for 30 minutes.

10-29 14th Day. Continued milling on junk at 5091' for 3 hours. Milled through junk, then cleaned out to 7590'. Pulled out of well. Ran in well with Otis seal assembly. Unable to stab in packer at 7590'. Pulled out of well. Running into well with 4-3/4" mill shoe.

10-30 15th Day. Finished running in well with 4-3/4" mill shoe. Milled on packer at 7590' for 2 hours. Pulled out of well. Tungsten on mill shoe chipped out. Ran 4" magnet two times, recovering steel cuttings. Made up 4-3/4" junk mill, junk sub, four 3-1/8" drill collars on 2-3/8" and 2-7/8" tubing. Running into well.

11-01 16th Day. Finished running in well with mill. Milled on packer at 7590' for 8 hours. Pulled out of well. Ran in another 4-3/4" junk mill, junk sub, four 3-1/8" drill collars on 2-3/8" and 2-7/8" tubing to one stand above packer.

11-02-82 17th Day. Milled on packer at 7590' for 8 hours. Pulled out of well. Ran in with another 4-3/4" junk mill, junk sub, four 3-1/8" drill collars on 2-3/8" and 2-7/8" tubing. Milled on packer at 7590' for 4 hours. Pulled up 2 stands above packer.

11-03 18th Day. Pushed packer with mill to 8010'. Pulled out of well. Ran in and set Baker Model "K-1" 5-1/2" drillable cement retainer on wireline at 7580'. Ran in well with Baker stab-in tool on 2-3/8" tubing. Valve in retainer would not open. Pulled out of well. Running in well with 4-3/4" junk mill, junk sub and four 3-1/8" drill collars on 2-3/8" and 2-7/8" tubing.

11-04 19th Day. Finished running in well with 4-3/4" mill. Milled on retainer for 3 hours and pushed to 8010'. Pulled out of well. Ran a Baker Model "K-1" 5-1/2" drillable cement retainer on wireline and set at 7581'. Ran in well with Baker stab-in tool on 2-3/8" and 2-7/8" tubing. Stabbed into retainer and obtained breakdown on 5 cu. ft. per minute at 1200 psi. Squeezed 49 cu. ft. of Class "G" cement with 0.5% CFR-2 and 0.6% Halad 9 into perforations from 7664'-8010' with a final pressure of 1200 psi. Unstabbed and dumped 8.5 cu. ft. of cement on top of retainer. Pulled up 80' and back scuttled.

11-05 20th Day. Located top of cement plug at 7578'. Equalized 8 sacks of Class "G" cement on top of cement plug. Pulled up to 7490' and back scuttled.

11-06 21st Day. Located top of cement plug at 7577'. Pressure tested cement plug with 900 psi surface pressure. Equalized 8 sacks of Class "G" cement on top of cement plug. Pulled up to 7490' and back scuttled.

11-08 22nd Day. Located top of cement plug at 7577'. Equalized 15 sacks of Class "G" cement at 7577'. Back scuttled at 7465'.

11-09 23rd Day. Located top of cement plug at 7500'. Location and hardness of cement plug witnessed by Engineer Mike Stettner of the Division of Oil and Gas. Circulated polymer completion fluid out of well with clean waste salt water. Pulling out of well. Released crew at noon because of weather conditions.

11-10 24th Day. Finished pulling out of well. Using Mc Cullough bullet gun shot twelve 1/2" holes from 7441'-7439'. Ran in well with Baker 5-1/2" 17# retrievable retainer with 400' of 2-3/8" tubing tail. Equalized 50 cu. ft. of 12% HCL 3% HF acid and obtained breakdown through holes at 7441'-7439' of 6 cu. ft. at 2600 psi. Pumped 46 cu. ft. of acid out of holes. Closed in well.

11-11 25th Day. Equalized 50 cu. ft. of 12% HCL 3% HF acid and obtained breakdown of 6 cu. ft. per minute at 2600 psi. Equalized 50 cu. ft. acid. Breakdown 9 cu. ft. per minute at 2900 psi. Pulled out of well. Set Baker 5-1/2" 17# drillable retainer at 7400'. Ran in well with Baker stab-in tool on 2-3/8" and 2-7/8" tubing. Preceded cement with 25 cu. ft. 6% HCL 1-1/2% HF acid followed with 50 sacks of Class "G" cement mixed with 0.5% CFR-2 and 0.6% Halad 9 and followed with 10 cu. ft. of fresh water. Squeezed cement at rate of 2 cu. ft. per minute. Squeezed away 22 cu. ft. Final pressure 3000 psi. Back scuttled and measured out of well. Set Baker 8-5/8" bridge plug at 300'. Removed BOPE. Installed seal flange and tubing head. Reinstalled BOPE.

11-12 26th Day. Retrieved Baker 8-5/8" bridge plug. Ran tubing in well to 7275'. Ran Audio analyzer log from 7340' to surface which showed no gas movement. Inhibited salt water. Removed BOPE and installed xmas tree. Pressure tested xmas tree to 5000 psi. Installed blind flanges. Rigged down.

11-13 27th Day. Loaded rig and moved from Porter #4.

11-15 28th Day. Moved rig from Aliso Canyon to CPS yard in Huntington Beach. Unloaded and released rig at 1:00 P.M., 11-15-82.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Date Rec'd 8/11/82

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well Porter #42, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00729 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date August 6, 19 82

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3925 (Telephone Number)

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Date	
	MWO #99978 was issued to plug off storage zone and convert to observation well.
1982	
7-13	1st Day. Preparing site for rig move.
7-14	2nd Day. Moved CPS Rig #D-3 to Porter #42 and started rigging up.
7-15	3rd Day. Finished rigging up. Circulated well for 3 hours. Installed back pressure valve in doughnut and removed xmas tree. Installed 10" 5000 psi BOPE. Pressure tested BOPE with water as follows: Hydril at 2000 psi for 20 minutes. Pipe and blind rams at 3000 psi for 20 minutes. Witness declined by Mr. Stettnor with Division of Oil and Gas.
7-16	4th Day. Worked 3 hours backing out stuck retaining pins from Cameron tubing head. Unlanded doughnut and released Otis latch from packer at 8032'. Back scuttled well and pulled out laying down 4 Camco gas lift mandrels and Otis tubing flow safety system. Made up 7" 29# casing scraper on 2-7/8" tubing and ran to 8032'. Circulated well and started out.
7-17	5th Day. Pulled out of well with 7" casing scraper. Made up Otis pulling tool on 2-7/8" bumper sub, hydraulic jars and four 4-3/4" drill collars, ran to 8032' and attached to Otis permatrieve packer. Released and pulled out with permatrieve packer. Ran open end tubing in well to lay sand plug.
7-19	6th Day. Finished running in well to 8200'. Rigged up Dowell. Down 3 hours to repair air valve on pump truck. Equalized 21 sacks of sand. Pulled up to 7000' and waited 2 hours. Ran in and located top of sand at 8087'. Equalized 7 sacks of sand. Pulled up and waited 1 hour. Located sand 8067'. Waited 1 hour. Located top of sand at 8065'.

7-20 7th Day. Ran in and located top of sand at 8064'. Back scuttled well clean with 1 sack of sand out. Using Dowell equalized 12 sacks of sand. Pulled 5 stands and waited 1-1/2 hours. Located top of sand at 8026'. Cleaned out sand to 8050' and back scuttled clean. Circulated polymer fluid out of well with salt water. Circulated well. Pulling out of well.

7-21 8th Day. Pulled out of well. Installed lubricator flange. Using Mc Cullough bullet gun shot seven 1/2" holes at 8010'. Ran in well with Howco RTTS retainer with 400' of 2-7/8" tubing tail. Set retainer at 7622' with tail at 8031'. At 3000 psi no breakdown. Equalized 80 cu. ft. of 12% HCL 3% HF acid. Obtained breakdown of 2.5 cu. ft. per minute. Cleared holes by 30 cu. ft.

7-22 9th Day. Equalized 80 cu. ft. 12% HCL 3% HF acid. Obtained breakdown of 2 cu. ft. per minute at 2600 psi. Ran in well with Welex gun and shot eight 1/2" jet holes at 8012' to 8014'. Using Dowell obtained breakdown rate of 2.5 cu. ft. per minute at 2700 psi. Displaced acid away. Pulled out of well and layed down Howco RTTS tool.

7-23 10th Day. Shot eight 1/2" holes in 7" casing at 8013' to 8015'. Ran in well with Howco RTTS tool and set tool at 7622', tail at 8031'. Equalized 35 cu. ft. 12% HCL 3% HF acid and obtained breakdown of 2.5 cu. ft. per minute. Cleared acid from well. Pulled out of well. Layed down RTTS tool.

7-24 11th Day. Set Howco cement retainer on Mc Cullough wireline at 7970'. Ran in well with stab-in tool at 7970'. Pumped 33 cu. ft. acid and 29 cu. ft. Class "G" cement with 0.5% CFR-2 and 0.6% Halad 9, displaced with 252 cu. ft. of lease water. Pumped out 11 cu. ft. of cement with 2850 psi final pressure. Back scuttled well clean.

7-26 12th Day. Ran Mc Cullough noise log from 7964' to 1500' which showed no gas movement. Pulled out of well. Layed down four 4-3/4" drill collars. Ran in well with 2-7/8" tubing open ended. Circulated and inhibited fluid in well. Landed on doughnut at 7928'. Removed BOPE and installed xmas tree.

7-27 13th Day. Tested xmas tree at 5000 psi. Installed blind flanges. Released rig at 10:00 A.M., 7-27-82.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
6/23/2014	Opened the well with 2024 psig surface pressure on the tubing and the casing. Rigged up and pumped 50 bbl of Hi-vis HEC polymer and displaced with 65 bbls of 8.5 ppg KCl brine. Killed the well per schedule with 350 bbl of 8.5 ppg KCl brine. The well had no surface pressure on the tubing and the casing. Installed the BPV and nippled down the production tree. Rigged up the Class III 5M BOPE and secured the well.
6/24/2014	Opened the well with 50 psig on the casing and 0 psig on the tubing. Rigged up the 3" choke line and function tested the Class III 5M BOPE. Rigged up the WEA test truck and pressure tested the blind rams to 300 psig (low) and 5000 psig (high) for twenty minutes (test good). Pressure tested the pipe rams to 300 psig (low) and 5000 psig (high) for twenty minutes(test good). Pressure tested the Hydril annular preventer to 300 psig (low) and 3600 psig (high) for twenty minutes (test good). Tested all the control valves and the choke manifold to 300 psig (low) and 5000 psig (high) for twenty minutes (test good). Rigged up the working floor and the tubing equipment. Backed out the hold down studs and pumped 50 bbl of 8.6 ppg KCl brine down the tubing and the casing. Unlanded the completion tubing at 68,000lb and attempted to release the production packer. Attempted to release from the On/Off tool and secured the well.
6/25/2014	Opened the well with 0 psig surface pressure on the tubing and 50 psig surface pressure on the casing. Moved in and rigged up the Tiger wireline unit and made up a 3-1/2" Plasma cutter on the wireline. Ran in the well, correlated and cut the 3-1/2'" completion tubing at 7315'. Rigged down and moved out the Tiger wireline unit. Pulled out of the well and laid down the 3-1/2" completion tubing to a kill string at 2300' and secured the well.
6/26/2014	Filled the well with 30 bbl of 8.5 ppg KCl brine. Pulled out of the well, laid down the 3-1/2" completion tubing, the GLMA, the sliding sleeve and the cut off 3-1/2" tubing. Changed the pipe rams from 3-1/2" to 2-7/8". Measured and picked up one joint 2-3/8" wash pipe with shoe. Measured and picked up 2-7/8", 6.5# P-110 workstring tubing to 5000' and secured the well.
6/27/2014	Measured and picked up the 2-7/8" workstring tubing to 7306' and tagged. Rigged up and pumped 8.5 ppg KCl brine at 4.5 bpm and attemted to work through. Pulled out of the well to 6500'. The rig was down for repairs (Lost power) and secured the well.
6/30/2014	Opened the well with 0 psig surface pressure and pumped 50 bbl of 8.5 KCl brine down the casing. Pulled out of the well to 1864' (took gas kick with 700 psig surface pressure on the casing) Rigged up and bled down the casing pressure and pumped 50 bbl of 8.5 ppg KCl brine down the tubing and the casing. Circulated out the gas cut brine and shut in the well with 250 psig on the casing, 350 psig on the tubing and secured the well.
7/1/2014	Opened the well with 0 psig surface pressure on the tubing and 250 psig on the casing. Pumped 20 bbl of KCl brine down the tubing and bleding off the casing. Opened the BOPE and filled the well with 38 bbl of KCl brine. Ran in the well to 6000' and circulated the well with 350 bbl of KCl brine. Pulled out of the well and laid down the wash pipe. Made up an 8-5/8" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to 5800' and secured the well.
7/2/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 42 bbl of KCl brine. Ran in the well with the 8-5/8" casing scraper to 7306', rigged up and reverse circulated with 100 bbl of KCl brine. Pulled out of the well and laid down the casing scraper. Made up a 5-3/4" over shot and bumper sub with 2.875" grapple on the 2-7/8" workstring. Ran in the well to 7306', worked over the fish and attempted to release from the on/off tool. Released from the fish, pulled to 7200' and secured the well.
7/3/2014	Filled the well with 42 bbl of 8.5 ppg KCl brine. Ran in the well, engaged the fish and attempted to release from the on/off tool. Attempted to release the packer. Released from the fish, pulled out of the well and laid down the overshot. Made up the 7-3/8" wash pipe and crossovers on the 2-7/8" workstring, ran in the well to 6100' and secured the well.

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Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
7/7/2014	Filled the well with 50 bbl of KCl brine. Nippled up PGSR and ran in the well with the 7-3/8" wash pipe to 7308'. Rigged up the power swivel, cleaned out to the top of the packer at 7344' and circulated the well clean. Pulled to 7300', then ran in to 7344' and laid down the power swivel. Pulled out of the well and laid down the 7-3/8" wash pipe. Made up a 5-3/4" over shot with 3.5" grapple, a bumper sub, a set of jars, (2) 4-3/4" drill collars and an intensifer on the 2-7/8" workstring. Ran in the well to 3100' and secured the well.
7/8/2014	Filled the well with 50 bbl of KCl binre. Ran in the well to 7306', engaged the fish, attempted to release the WEA packer at 7340', jarred once at 100,000lb and came free. Pulled out of the well and stood back BHA/tools (recovered a 15' cut off and the top half of the on/off tool). Made up a 5-3/4" overshot with 3.75" grapple, a bumper sub, a set of ,jars, (2) 4-3/4" drill collars and an intensifer on the 2-7/8" workstring. Ran in the well to 7000' and secured the well.
7/9/2014	The well required 50 bbl of KCl brine to fill. Ran in the well, engaged the fish and worked the packer free. Pulled out of the well and laid down the fish (recovered the bottom half of the on/off tool, the WEA packer and the no/go nipple). Laid down the fishing tools and made up an 8-5/8" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to the top of the liner at 7400', pulled out of the well to a kill string at 2900' and secured the well.
7/10/2014	Filled the well with 50 bbl of 8.5 ppg KCl brine. Pulled out of the well with the kill string and laid down the 8-5/8" scraper and the bumper sub. Made up an 8-5/8" WEA retrieveable bridge plug on the 2-7/8" workstring and ran in the well to 7380'. Set and released from the bridge plug. Pressure tested the bridge plug to 500 psig surface pressure for ten minutes (test good). Dumped 5 cuft of sand (top of the sand at 7365'). Pulled out of the well to a kill string at 2557' and secured the well.
7/11/2014	The well was standing full of 8.5 ppg KCl brine. Pulled out of the well with the kill string and nippled up the shooting flange. Moved in and rigged up the Schlumberger wireline unit and made up the USIT/CBL combo tools. Ran in well to 7365' and started log (Tools failed). Pulled out of the well with the USIT tool, rigged down and moved out the Schlumberger wireline unit. Ran in the well to 2400' with the 2-7/8" kill string and secured the well.
7/14/2014	The well was standing full of 8.5 ppg KCl brine. Pulled out of the well with the 2-7/8" kill string and nippled up the shooting flange. Moved in and rigged up the Schlumberger wireline unit and made up the 8-5/8" USIT/CBL combo tools on wireline. Ran in the well to 7365' and logged to the surface. Rigged down and moved out the Schlumberger wireline unit. Made up an 8-5/8" test packer on the 2-7/8" workstring, ran in the well to 2943' and secured the well.
7/15/2014	The well was standing full of KCl brine. Ran in the well with the 8-5/8" test packer to 6800' and set the test packer. Pressure tested below the test packer to 750 psig surface pressure (bled down to 300 psig in 20 minutes). Pressure tested the 2-7/8" x 8 -5/8" annulus to 700 psig for 20 minutes (test good). Ran in the well and tagged the sand, picked up 5' and set the test packer at 7364'. Pressure tested below to 750 psig surface pressure for 20 minutes (test good). Pressure tested the 2-7/8" x 8-5/8" annulus to 700 psig surface pressure for 20 minutes (bled down 100 psig in 20 minutes). Released the test packer and pulled to 7330', set the test packer, and pressure tested below to 700 psig surface pressure for 20 minutes (test good). Pressure tested the 2-7/8' x 8-5/8" annulus to 700 psig (bled down 100 psig in 20 minutes). Pulled to 7275', set the test packer and tested below the packer to 700 psig surface pressure for 20 minutes (test good). Pressure tested the 2-7/8" x 8-5/8" annulus to 700 psig (bled down 100 psig in twenty minutes). Released the test packer and pulled to 7244'. Set the test packer, tested below the test packer to 700 psig surface pressure for 5 minutes (test good). Pressure tested the 2-7/8" x 8-5/8" annulus to 700 psig (bled down 100 psig in 20 minutes). Released the test packer and pulled to 7177'. Pressure tested the 2-7/8" x 8-5/8" annulus to 700 psig surface pressure for 20 minutes (test good). Released the test packer and ran in the well to 7210'. Set the test packer and tested annulus to 700 psig for 20 minutes (good) Tested below the packer to 700 psig for twenty minutes (Bled down 100 psig in 20 minutes). Released packer ran in thewell and set packer at 7227'. Tested below packer to 700 psig for 20 minutes (bled down 100 psig in 20 minutes) Tested annulus to 700 psi for 20 minutes (test good). Leak between 7227' and 7244', casing collar at 7242') Released the test packer, pulled to 6000' and secured the well.

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Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
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Start Date	Ops this Report (DOGGR)
7/16/2014	Filled the well with 6 bbl of 8.5 ppg KCl brine. Set the test packer at 6000' and pressure tested the 2-7/8" x 8-5/8" annulus to 1000 psig surface pressure for 20 minutes (test good). Released the test packer, pulled to 4700', set the test packer and pressure tested the 2-7/8" x 8-5/8" annulus to 1500 psig for 20 minutes (test good). Released the test packer, pulled to 3350', set the test packer and pressure tested the 2-7/8" x 8-5/8" annulus to 2000 psig for 20 minutes (test good). Released the test packer, pulled to 2000', set the test packer and pressure tested the 2-7/8" x 8-5/8" annulus to 2500 psig for 20 minutes (test good). Released the test packer, pulled to 1500', set the test packer and pressure tested the 2-7/8" x 8-5/8" annulus to 2700 psig for 20 minutes (test good). Released the test packer, pulled to 1000', set the test packer and pressure tested the 2-7/8" x 8 -5/8" annulus to 2900 psig for 20 minutes (test good). Released the test packer, pulled to 500', set the test packer and pressure tested the 2-7/8" x 8-5/8" annulus to 3000 psig for 20 minutes (test good). All pressure tests good and charted. Pulled out of the well and laid down the 8-5/8" test packer. Made up the 8-5/8" bridge plug retrieving tool on the 2-7/8" workstring, ran in the well to 2550' and secured the well.
7/17/2014	Held safety meeting with the rig crew and worked as directed; labor only.
7/18/2014	Filled the well with 6 bbl of 8.5 ppg KCl brine. Ran in the well with the bridge plug retrieving tool to the top of the sand at 7364'.
7/21/2014	Filled the well with 15 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the bridge plug retrieving tool. Moved in and rigged up the Tiger wireline unit. Made up a 4" peforating gun with 4, 1/2" spf. Ran in the well to 7353', correlated, and shot (8) 1/2" holes (39 gram charges). Rigged down and moved out the Tiger wireline unit. Made up (11) joints of tubing tail and a WEA squeeze packer on the 2-7/8" workstring. Ran in the well to 7342' and secured the well.
7/23/2014	Moved in and rigged up the HES cementing equipment. With the tubing tail at 7357', pressure tested the lines to 3000 psig. Pumped 5 bbls of water ahead, mixed and pumped 16 bbl of 14.9 ppg Class "G" cement (50 sacks) and displaced with 40 bbl of 8.5 ppg KCl brine. Pulled to 7000', rigged up and reverse circulated with 50 bbl of KCl brine (Trace of cement to the surface). Set the test packer and down squeezed at 1942 psig with approximately 1 bbl of cement out of the holes. Closed in the well with 1900 psig surface pressure and secured the well.
7/24/2014	Opened the well with 1200 psig surface pressure on the tubing and 500 psig on the casing. Bled down the tubing and the casing pressure. The well was standing full of KCl brine. Released the test packer, ran in the well and tagged the top of the cement at 7165'. Pulled out of the well and laid down the test packer. Made up a 7-3/8" bit, a bit sub, (4) 4-3/4" drill collars on the 2-7/8" workstring. Ran in the well to 7165', nippled up the PGSR and the power swivel. Cleaned out the cement to 7172', circulated the well clean and secured the well.
7/25/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. The well was standing full of KCl brine. Cleaned out the cement from 7172' to 7366' and circulated the well clean. Rigged down power swivel, pulled out of the well to 7000' and secured the well.
7/28/2014	The well was standing full of KCl brine. Pulled out of the well with the bit. Made up an 8-5/8" casing scraper on the 2-7/8" workstring. Ran in the well to 7365', picked up the power swivel and cleaned out cement to 7342'. Circulated the well clean and secured the well.
7/29/2014	The well was standing full of KCl brine. Circulated down to the top of the sand at 7367' and reverse circulated the well clean. Pulled out of the well and laid down the 8-5/8" casing scraper. Made up a WEA 8-5/8 " test packer on the 2-7/8" workstring. Ran in the well to 7245', set the test packer and pressure tested below the test packer to 1000 psig for 20 minutes (test good). Rigged up and pressure tested the 2-7/8" x 8-5/8" annulus to 1000 psig for 20 minutes (test good). Released the 8-5/8" test packer, pulled oiut of the well to 5400' and secured the well.

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7/30/2014	The well was standing full of 8.5 ppg KCl brine. Pulled out of the well and laid down the 8-5/8" test packer. Made up the 8-5/8" bridge plug retrieving tool on the 2-7/8" workstring. Ran in the well to 7365', nippled up the PGSR, rigged up and reverse circulated 12' of sand to the top of the bridge plug. Released the 8-5/8" bridge plug and filled well with 20 bbl of 8.5 ppg KCl brine. Pulled out of the well to 5340'. The well flowed back through the tubing and circulated out the gas cut brine. Pulled out of the well to a kill string at 2640' and secured the well.
7/31/2014	Filled the well with 59 bbl of 8.5 ppg KCl brine. Pulled out of the well with a kill string and laid down the 8-5/8" bridge plug. Measured and picked up (18) joints of 2-1/16" Hydrill tubing with a mule shoe on the 2-7/8" workstring. Ran in the well and tagged sand at 7409'. Rigged up the PGSR, cleaned out sand to 7451', circulated the well clean, pulled to 7375' and secured the well.
8/1/2014	The well required 61 bbl of KCl brine to fill. Ran in the well with the 2-1/16" tubing tail to 7451', reverse circulated out the sand to 7768'. Reverse circulated the well clean, pulled out of the well to 7324' and secured the well.
8/4/2014	Filled the well with 84 bbl of 8.5 ppg KCl brine. Ran in the well to 7770', rigged up and reverse circulated sand to 7823' and circulated the well clean. Pulled to 7256', waited two hours, ran in the well to 7823' (no fill). Rigged down the PGSR, pulled out of the well to a kill string at 3112' and secured the well.
8/5/2014	Filled the well with 69 bbl of KCl brine. Pulled out of the well with a kill string. Made up a 5" retrievable bridge plug on the 2-7/8" workstring. Ran in the well to 7500', set the bridge plug and pressure tested the 2-7/8" x casing annulus to 500 psig surface pressure (Bled down 300 psig in 6 minutes). Released the 5" bridge plug and moved up the hole to 7490'. Set the bridge plug and pressure tested to 500 psig (bled down 300 psig in 6 minutes). Dumped two sacks of sand on top of the bridge plug, pulled out of the well to a kill string at 2700' and secured the well.
8/6/2014	Filled the well with 63 bbl of 8.5 ppg KCl brine. Pulled out of the well with the kill string and laid down the 5" bridge plug retrieving tool. Made up a WEA 5" test packer on the 2-7/8" workstring and ran in the well to 7455'. Filled the well with 20 bbl of KCl brine. Set the test packer and pressure tested below the 5" test packer to 500 psig for 20 minutes (test good). Pressure tested the 2-7/8" x casing annulus to 500 psig (Bled down 300 psig in 3 minutes). Released the 5' test packer, pulled out of the well and laid down the test packer. Made up a seal assembly on the 2-7/8" workstring, ran in the well to a kill string at 2600' and secured the well.
8/7/2014	Filled the well with 67 bbl of 8.5 ppg KCl brine. Ran in the well with the liner seals to the PBR at 7390', filled the well with 20 bbl of KCl brine and engaged the seal with 10,000 lb compression. Pumped down the 2-7/8" tubing at 3 bpm to 500 psig (Bled down to 0 psig immediately). Rigged up and pressure tested the 2-7/8 tubing x casing annulus to 1000 psig with chart recorder (Lost 300 psig in 20 minutes). Unstabbed from the PBR, pulled out of the well and laid down the seal asssembly. Made up the 5" bridge plug retrieving tool on the 2-7/8" workstring, ran in well to 7365' and secured the well.
8/8/2014	The well required 68 bbl of 8.5 ppg KCl brine to fill. Ran in the well to 7473', rigged up PGSR and reverse circulated the sand from the top of the bridge plug. Released the 5" bridge plug, pulled out of the well and laid down the 5" bridge plug. Ran in the well with a kill string to 2600' and secured the well.
8/11/2014	Filled the well with 73 bbl of KCl brine Pulled out of the well with the kill string and rigged up the shooting flange. Moved in and rigged up the Schlumberger wireline unit with a full lubricator. Made up the CCl/gravel density tool on wireline and ran in the well to 7823'. Ran log from 7823' to 7587' and pulled out of the well and laid down the logging tools. Rigged down and moved out the Schlumberger wireline unit. Made up a 3-3/8" casing cutter and a stabilizer on the 2-7/8" workstring, ran in the well to 7370' and secured the well.
8/12/2014	Filled the well with 50 bbl of 8.5 ppg KCl brine. Rigged up the PGSR, ran in the well to 7457' and rigged up the power swivel. Attempted to cut the 5" liner at 7457' (no torque on cutter). Laid down the power swivel. Pulled out of the well and laid down the casing cutter. Ran in the well with a kill string to 2600' and secured the well.

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8/13/2014	The well required 71 bbl of KCl brine to fill. Pulled out of the well with the kill string. Made up a 3-5/8" casing cutter with a stabilizer on the 2-7/8" workstring. Ran in the well to the 5" liner top at 7390' (Could not enter the liner due to cutter blades opening). Pulled out of the well laid down the casing cutter. Ran in the well with a kill string to 2600' and secured the well.
8/14/2014	Filled the well with 64 bbl of 8.5 ppg KCl brine. Pulled out of the well with the kill string. Rigged a up shooting flange and moved in and rigged up the Tiger wireline unit with full lubricator. Made up a 3-5/8" plasma cutter on wireline. Ran in the well to 7460', correlated and cut the 5" liner at 7460'. Rigged down and moved out the Tiger wireline unit and rigged down the shooting flange. Made up a casing spear with 4.8" grapple ,4" drill collar a,stop, a bumper sub, a set of jars, ,(2) 4-3/4"drill collars and an intensifier on the 2-7/8" workstring. Ran in the well to 7390', engaged 5" liner top and jarred free. Moved up the hole 200' with the cut liner and jarred on the liner at 150,000lb and secured the well.
8/15/2014	Filled the well with 67 bbl of 8.5 ppg KCl brine. Jarred on the liner/fish at 150,000lb and the intensifer quit working. Released from the fish and pulled out of the well. Replaced fishing jars and the intensifer and ran in the well to top of fish at 7180'. Engaged liner/fish and jarred the on fish at 120,000lb and secured the well.
8/18/2014	Filled the well with 75 bbl of KCl brine. Continued to jar on the fish at 140,000 lb and jarred free (did not pick up weight). Pulled out of the well, took a gas kick and circulated out the gas cut brine. Pulled out of the well and laid down the fishing tools (Found the bumper sub parted). Ran in the well with a kill string to 2600' and secured the well.
8/19/2014	The well required 62 bbl of KCl brine to fill. Pulled out of the well with the kill string. Made up an over shot with a 4-3/4" grapple, a bumper sub, a set of jars, (2) 4-3/4" drill collars and an intensifier on the 2-7/8" workstring. Ran in the well to the top of the fish/cut liner top at 7178', engaged the fish and attempted to release the casing spear. Pulled out of the well and laid down the fishing tools (no recovery; broken grapple). Ran in the well with a kill string to 2600' and secured the well.
8/20/2014	Filled the well with 67 bbl of 8.5 ppg KCl brine. Pulled out of the well with the kill string. Made up a new overshot with 4-3/4" left handed grapple, a bumper sub, a set of jars, (2) 4-3/4" drill collars and an intenisfer on the 2-7/8" workstring. Ran in the well to the top of the fish at 7180', engaged the fish, attempted to release from the spear and overshot and secured the well.
8/21/2014	Filled the well with 47 bbl of KCl brine. Moved in and rigged up the Tiger wireline unit. Made up a 1" string shot on wireline. Ran in the well to to 7180', correlated and shot across the spear from 7180' to 7174' with 8 rounds of torque in the 2-7/8" workstring tubing. Pulled out of the well with the wireline. Attempted to release the spear. Made up a 1" sting shot on wireline. Ran in the well to 7173'. correlated and attempted to back of at the bumper sub with 6 rounds of left hand torque in the 2-7/8" workstring tubing. The tubing backed off with 38,000 lb string weight. Screwed back into the 2-7/8" workstring tubing and torqued up. Pulled out of the well with the wireline. Rigged down and moved out the Tiger wireline unit (spear released). Pulled out of the well to a kill string at 5687' and secured the well.
8/22/2014	Filled the well with 50 bbl of KCl brine. Pulled out of the well (recovered the bumper sub and the spear) and laid down the fishing tools. Made up a spear,a bumper sub, a set of drilling jars (up/down jars), (4) 4-3/4" drill collars and an intenisfer on the 2-7/8" workstring. Ran in the well to the top of the fish at 7180', engaged the fish, jarred on the fish/the cut liner at 140,000 lb with no movement and secured the well.
8/25/2014	Filled the well with 48 bbl of 8.5 ppg of KCl brine. Jarred on the fish with no movement (up or down) released the spear, pulled out of the well and laid down the fishing tools. Made up a 7-5/8" shoe, a junk basket, a set of jars, (4) 4-3/4" drill collars on the 2 -7/8" workstring. Ran in the well to 6100' and secured the well.
8/26/2014	Filled the well with 54 bbl of 8.5 ppg of KCl brine. Ran in the well to 7168', rigged up the PGSR and picked up the power swivel. Milled the liner top from 7168' to 7171' and stopped making hole. Laid down the power swivel and rigged down the PGSR. Pulled out of the well to 7100' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
8/27/2014	The well required 45 bbl of 8.5 ppg KCl brine to fill. Pulled out of the well, stood back the fishing tools and replaced the 7-5/8" mill shoe. Picked up the new set of tools and ran in the well with the new mill shoe to the top of the fish at 7168'. Rigged up the PGSR, picked up the power swivel and started milling on the liner top (power swivel down for repairs) and secured the well.
8/28/2014	Filled the well with 45 bbl of KCl brine. Picked up the power swivel and reverse circulated above the fish at 7168', milled down to 7178' (milling on slips), circulated the well clean, and secured the well.
8/29/2014	Filled the well with 45 bbl of 8.5 ppg KCl brine. Worked over the fish and started milling on the fish and moving down the hole to 7188'. Laid down the power swivel and rigged down the PGSR . Pulled out of the well to 4500' and secured the well.
9/2/2014	Opened the well with 60 psig surface pressure on the tubing and the casing. Filled the well with 44 bbl of KCl brine. Circulated the gas cut brine from the well. Pulled out of the well and laid down the mill shoe and the boot baskets. Made up a spear, a bumper sub, a set of ,jars, (2) 4-3/4" drill collars and an intensifer on the 2-7/8" workstring. Ran in the well to the top of the fish at 7162' and secured the well.
9/4/2014	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 45 bbl of 8.5 ppg KCl brine. Ran in the well to 7405' and engaged the fish (dragging up the hole). Pulled up the hole and worked through a tight spot at 4438'. Pulled out of well wiht no recovery. Redress the spear and made up the fishing tools on the 2-7/8" workstring. Ran in the well to 5515' and secured the well.
9/5/2014	Filled the well with 44 bbl of 8.5 ppg KCl brine. Pulled out of the well and laid down the fishing tools and the fish (recovered 26'; cut off 5" blank liner and liner top and the gravel pack assembly). Made up an 8-5/8" casing scraper and a bumper sub on the 2 -7/8" workstring. Ran in the well to 7314' and secured the well.
9/8/2014	Opened the well with 150 psig surface pressure on the tubing and the casing. Bled down the well and filled the well with 56 bbl of KCl brine. Ran in the well and tagged the 5" liner stub at 7456' with the 8-5/8" casing scraper. Pulled out of the well and laid down the 8-5/8" casing scraper. Made up a WEA bridge plug on the 2-7/8" workstring. Ran in the well to 7441', set and released from the bridge plug. Pressure tested the 2-7/8" workstring x casin annulus to 500 psig for 10 minutes (test good). Dumped 3 cuft of sand (top of sand at 7432'). Pulled out of the well and laid down the bridge plug retrieving tool. Made up a WEA test packer on the 2-7/8" workstring. Ran in the well to 4300' and secured the well.
9/9/2014	Filled the well with 68 bbl of 8.5 ppg KCl brine. Ran in the well to 7366', set the test packer and pressure tested the 2-7/8" x casing annulus to 500 psig for 5 minutes. Pressure tested below the test packer at 7432' to 500 psig for 10 minutes. Released the test packer and pulled to 7240', set the test packer and pressure tested the 2=7/8" x casing annulus to 500 psig for 10 minutes. Pressure tested below the test packer from 7240' to 7432' at 750 psig for 20 minutes and charted the test (All tests good). Released the test packer, pulled out of the well and laid down the test packer. Made up the bridge plug retrieving tool on the 2-7/8" workstring. Ran in the well to a kill string at 2430' and secured the well.
9/10/2014	The well was standing full of KCl brine. Ran in the well to 7432', rigged up the PGSR and rigged up and reverse circulated the sand out of the well. Engaged the retrieveable bridge plug and equalized the pressure. Released the bridge plug and filled the well witrh 45 bbl of KCl brine. Pulled out of the well and laid down the bridge plug. Made up the sizing mill assembly on the 2-7/8". Ran in the well to a kill string at 3800' and secured the well.
9/11/2014	Filled the well with 34 bbl of 8.5 ppg KCl brine. Ran in the well with the milling assembly to the top of the fish at 7440'. Nippled up the PGSR, picked up the power swivel and dressed the top of the 5" liner. Laid down the power swivel and rigged down the PGSR. Pulled out of the well to a kill string at 2800' and secured the well.
9/12/2014	Filled the well with 44 bbl of KCl brine. Pulled out of the well and laid down the tools (found the mill shoe split and missing pieces). Ran in the well with a kill string to 2500' and secured the well.

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HISTORY OF OIL OR GAS WELL

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Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
9/15/2014	Opened the well with 75 psig surface pressure on the tubing and the casing. Filled the well with 49 bbl of KCl brine. Pulled out of the well with the kill string. Made up a 7-3/8" skirted mill with 6.13" concave mill with junk baskets, (4) 4-3/4" drill collars on the 2-7/8" workstring. Ran in the well to 1500' and well the flowed up the tubing. Circulated the gas cut brine from the well. Ran in the well to 7450', picked up the power swivel and milled from 7450' to 7452', circulated the well clean and secured the well.
9/16/2014	Filled the well with 47 bbl of 8.5 ppg KCl brine. Milled the 5" liner top from 7452' to 7453' and circulated the well clean. Pulled out of the well and laid down the milling assembly. Made up a 6-3/8" sizing mill, (4) 4-3/4" drill collars on the 2-7/8" workstring. Ran in the well to the top of the 5" liner, worked over the liner top and cleaned outside of the liner to 5'. Laid down the power swivel, pulled out up the hole to 5600' and secured the well.
9/17/2014	The well required 45 bbl of KCl brine to fill. Pulled out of the well with the kill string. Wrong lifting plug for the liner and shut down for the proper equipment. Ran in the well to 2600' and secured the well.
9/18/2014	Filled the well with 56 bbl of KCl brine. Pulled out of the well with the kill string. Rigged up the casing tongs and the casing equipment. Made up 5' casing bowl over shot, 5" LT&C x Hydrill 513 crossover, (4) joints of 5" Hydril blank liner, 5" Hydril x LT&C crossover, 8-5/8"X 5" WEA liner hanger/packer on the 2-7/8" workstring. Rigged down and moved out the casing tongs and equipment. Ran in the well to the top of the 5" liner stub at 7454'. Worked over the liner stub, dropped the ball, set the hanger/packer with 1700 psig (top of liner at 7221'). Released from the hanger, pulled out of the well to 4200' and secured the well.
9/19/2014	Filled the well with 48 bbl of KCl brine. Pulled out of the well and laid down the liner running tools. Made up a 5" casing scraper and a bumper sub on the 2-7/8" workstring. Ran in the well to 7454' and tagged. Worked through a tight spot, pulled 6 klb over string weight pulling back through. Pulled to 7200' and secured the well.
9/22/2014	Filled the well with 48 bbl of KCl brine. Pulled out of the well and laid down the casing scraper. Made up a 4-1/8" string mill and (21) joints of 2-1/16" tubing tail on the 2-7/8" workstring. Ran in the well to the tight spot at 7454', picked up a power swivel, cleaned out the tight spot and laid down the power swivel. Ran in the well and tagged at 7800'. Pulled out of the well to 5200' and secured the well.
9/23/2014	The well required 43 bbl of 8.5 ppg KCl brine to fill. Pulled out of the well and laid down the milling assembly. Made up a 5" WEA retrievable bridge plug on the 2-7/8" workstring. Ran in the well to 7519', set the 5" bridge plug, and filled the well with 10 bbl of KCl brine. Pressure tested the 2-7/8" x casing annulus to 500 psig (bled down 200 psig in 3 minutes). Bled down and dumped 1 cuft of sand. Pulled out of the well to a kill string at 3000' and secured the well.
9/24/2014	Rig down for 3 hours for repairs. Filled the well with 41 bbl of KCl brine. Pulled out of the well with a kill string and laid down the bridge plug retreiving tool. Made up a WEA 5" test packer on the 2-7/8" workstring. Ran in the well to 7481', filled the well with 10 bbl of KCl brine, set the test packer, pressure tested from 7418' to the bridge plug at 7510' to 500 psig for 10 minutes (test good). Released the test packer and pulled to 7418', set the test packer and pressure tested from 7418' to 7510' to 500 psig (No test, bleed to 0 psig). Rigged up and pressure tested the 2-7/8" x casing annulus to 500 psig for 20 minutes (test good). Released the test packer, pulled to 7100' and secured the well.
9/25/2014	Filled the well with 40 bbl of KCl brine. Pulled out of the well and laid down the 5" WEA test packer. Made up a bridge plug retreiving tool on the 2-7/8" workstring. Ran in the well to 7497', reverse circulated the sand from the top of the bridge plug and released the bridge plug. Pulled out of the well to 4600' and secured the well.
9/26/2014	Filled the well with 42 bbl of KCl brine. Pulled out of the well and laid down the 5" bridge plug. Made up a 45 degree collar, (21) joints of 2-1/16" CS hydril tubing on the 2-7/8" workstring. Ran in the well to 7795, rigged up and reverse circulated to 7800'. Pulled to 7123' and secured the well.

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HISTORY OF OIL OR GAS WELL

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Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
9/29/2014	Opened the well with 50 psig surface pressure on the tubing and the casing. Filled the well with 43 bbl of 8.5 ppg KCl brine. Pulled out of the well to 5000' with the well flowing and circulated the gas cut brine from the well. Pulled out of the well and laid down the 2-7/8" workstring and laid down the (21) joints of the 2-1/16" tubing. Ran in the well to a kill string at 2800' and secured the well.
9/30/2014	Filled the well with 29 bbl of KCl brine. Pulled out of the well and laid down the 2-7/8" workstring and laid down (4) 4-3/4" drill collars. Changed the pipe rams from 2-7/8" to 3-1/2". Measured and picked an WEA 8-5/8" AS1X production packer, a 6' 3-1/2" pup jt, (1) jt of 3-1/2", 9.3# L-80 tubing, a WEA No/Go nipple, (1) jt of 3-1/2", 9.3# L-80 tubing, a WEA sliding sleeve, (1) jt of 3-1/2",9.3# L-80 tubing, and a gas lift mandrel. Measured and picked up the 3-1/2", 9.3#, L-80 completion tubng to 4210' and secured the well.
10/1/2014	Filled the well with 28 bbl of 8.5 ppg KCl brine. Swapped the tubing trailers, measured and picked up the 3-1/2",9.3# L-80 tubing to 7182'. Spaced out the completion string and landed the 3-1/2" tubing in the tubing hanger with 14,000 lb compression. Filled the tubing x casing annulus and pressure tested to 500 psig surface pressure for 20 minutes (test good). Rigged down the working floor, rigged down the rig and associated equipment and secured the well.
10/2/2014	Opened the well with 0 psig surface pressure on the tubing. Installed the back pressure plug in the tubing hanger and nippled down the Class III 5M BOPE. Rigged up the production tree and secured the well. Loaded rig the Ensign #321 equipment and rigged down the hoist for move to P-50C.
10/17/2014	Opened the well 0 psig surface pressure on the tubing and the casing. Wellhead seals will not pressure test. Installed the BPV and removed the production tree. Checked the tubing hanger neck seal and re-torqued the hold down studs. Nippled up the productio tree and attempted to pressure test tubing hanger seals (Tubing hanger leaking) and secured the well.
12/9/2014	Moved in and rigged up the Rival Rig #12 hoist. Opened the well with 0 psig surface pressure on the tubing and the casing. The well standing full of KCl brine. Nippled down the production tree. Unlanded the tubing hanger at 61,000 lb. Redressed the tubing hanger and replaced neck seals with rope packing and nippled up the production tree. Rigged up and pressure tested the production tree to 300 psig (low) and 3000 psig (high) (No pressure test; broke down at 3000 psig and bled to 0 psig). Nippled down the production tree and found the neck seal cut. Replaced the tubing hanger seal, nippled up the production tree and attempted to pressure test (No test). Nippled the down production tree, unlanded the tubing hanger and redressed the tubing hanger with teflon packing and relanded the tubing hanger. Nippled up the production tree, rigged up and pressure tested the production tree to 300 psig (low) and 4000 psig (high) for 20 minutes (Test good). Removed the BPV, rigged down the Rival Rig #12 hoist and secured the well.

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
1/20/2016	Spot in kill tanks.
1/21/2016	Kill well.
4/20/2016	none
5/11/2016	Spot in equipment.
5/12/2016	SITP = 1300 psi, SICP = 1300 psi, Field pressure 1078 psi. Pump 64 bbl 8.5 ppg high vis polymer and displace with 64 bbls of 8.5 ppg HEC polymer. Kill well and circulated clean with 432 bbls of 8.5 ppg HEC polymer, gas was ran from separator through the carbon filter unit. Rig down gas separator and carbon filter unit. Monitor well for 30 minutes while RD pump, carbon filter and separator. Remove 9-1/16" 5M master valve. Install 9-1/16" 5M X 11-1/16" 5M cross over, 11-1/16" 5M double gate BOP and 11-1/16" 5M annular preventer. Pressure test BOP stack to 2000 psi with mud pump, good. Secure well til AM.
5/13/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1075 psi. Fill well with 38 bbls 8.5 ppg HEC polymer. Pressure test BOPE as per Gas Company Standard 224.05: Pressure test pipe and blind rams, all lines and connections at 300 psi low / 5000 psi high for 20 min. each test. Annular preventer at 300 psi low / 3500 psi high for 20 min each test. Good test. Bleed off pressure and R/D Weatherford test unit. BOP equipment was inspected by DOGGR Ernie Blevins. Back out hanger lock screws. Release Arrowset packer. Pull out of the well with (11) joints of 3-1/2" L80 EUE 8rd tubing. Fill well with 14 bbls of 8.5 ppg HEC polymer. Secure well til AM.
5/14/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1050 psi. Fill well with 33 bbls 8.5 ppg HEC polymer. Continue to pull out of the well with (214) joints of 3-1/2" L80 EUE 8rd tubing, 3-1/2" X 4' L80 EUE 8rd pup joint, 3-1/2" mandrel, 3-1/2" X 2' L80 EUE 8rd pup joint, (1) joint of 3-1/2" L80 EUE 8rd tubing, 3-1/2" WXN profile nipple, (1) joint 3-1/2" L80 EUE 8rd tubing and laid down 8-5/8" Arrowset packer. Had to hammer every connection, very tight, fill hole every 10 joints pulled. PU and run in the well with 8-5/8" 36 # scraper, 3-3/4" bumber sub, (231) joints of 3-1/2" L80 EUE 8rd tubing, tagged top of liner @ 7222'. Reverse circulate two tubing volumes 130 bbls of 8.5 ppg polymer. Pull out of the well with (160) joints of 3-1/2" L80 EUE 8rd tubing. Secure well til Monday.
5/16/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1085 psi. Fill well with 33 bbls 8.5 ppg HEC polymer. Continue pulling out of the well with (70) joints of 3-1/2" L80 tubing. Laid down 3-3/4" bumper sub and 8-5/8" 36# scraper. P/U, run in the well with mechanical 3-5/8" OD cutter for 5" liner, stabilizer, (2) cross overs, (12) 2-1/16" PH 6 tubing, 2-1/16" pin X 2-7/8" EUE 8rd box cross over, 2-7/8" EUE pin X 3-1/2" EUE box cross over on (210) joints of 3-1/2" L80 tubing, Tagged @ 7252', Attempt to work cutter past 7252', unable to work past. Pull out of the well with (210) joints of 3-1/2" L80 tubing. Laid down (13) joints of 2-1/16" PH6 tubing and BHA. Run in the well with (50) joints of 3-1/2" L80 tubing. Secure well til AM.
5/17/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1080 psi. Fill well with 9 bbls 8.5 ppg HEC polymer. Pull out of the well with (50) joints of 3-1/2" L80 tubing. P/U, run in the well with 5" 18# scraper, 3-1/8" bumper sub, 2-3/8" EUE x 2-3/8" PH6 cross over, (19) joints of 2-3/8" PH6 tubing, 2-3/8" PH6 X 2-7/8" EUE cross over, 2-7/8" EUE X 3-1/2" EUE cross over on (230) joints of 3-1/2" L80 tubing. Tagged @ 7774', tight spot @ 7455', 15K down weight and 20K overpull to get through. Worked through tight area til it took 8K down weight and 8K overpull to get through. Pull out of the well with (230) joints of 3-1/2" L80 tubing, (2) cross overs, (19) joints of 2-3/8" PH6 tubing. Laid down bumper sub and 5" scraper. Run in the well with 2-3/8" X 2' PH6 mule shoe pup joint, (19) joints of 2-3/8" PH6 tubing, 2-3/8" PH6 pin X 2-7/8" EUE box and 2-7/8" EUE pin X 3-1/2" EUE box cross overs on (198) joints of 3-1/2" L80 tubing. Secure well til AM.

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Start Date	Ops this Report (DOGGR)
5/18/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1080 psi. Fill well with 9 bbls 8.5 ppg HEC polymer. Run in the well with (32) joints of 3-1/2" L80 tubing, tagged @ 7774'. Install 11-1/16" 5M x 7-1/16" 5M spool and 7-1/16" circulating head. Rig up por boy. Reverse circulate clean from 7774' to 7795', not making hole. Remove circulating head and spool. Pull out of the well with (230) joints of 3-1/2" L80 tubing, cross overs, (19) joints of 2-3/8" PH6 tubing and laid down mule shoe pup joint. Run in the well with 3-5/8" OD cutter, 4-1/8" stabilizer, 2-3/8" regular pin X 2-3/8" EUE box and 2-3/8" EUE pin X 2-3/8" PH6 box cross overs, (12) joints of 2-3/8" PH6 tubing, 2-3/8" PH6 pin X 2-7/8" EUE box and 2-7/8" EUE pin X 3-1/2" box cross overs on (74) joints of 3-1/2" L80 tubing. Secure well til AM.
5/19/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1082 psi. Fill well with 9 bbls 8.5 ppg HEC polymer. Continue running in the well with (146) joints of 3-1/2" L80 tubing. Tagged with cutter @ 7245', attempt to work through, unable. Rig up power swivel, attempt to rotate / work through, unsuccessful. Hang back power swivel. Pull out of the well with (220) jts 3-1/2" L80 tubing, (2) xovers, (12) joints of 2-3/8" PH6 tubing, lay down 4-1/8" stabilizer and cutter. Run in the well with 3-5/8" OD cutter, 2-3/8" regular pin X 2-3/8" EUE box and 2-3/8" EUE pin X 2-3/8" PH6 box cross overs, (12) joints of 2-3/8" PH6 tubing, 2-3/8" PH6 pin X 2-7/8" EUE box and 2-7/8" EUE pin X 3-1/2" box cross overs on (230) joints of 3-1/2" L80 tubing. No restrictions noted. Secure well til AM.
5/20/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1076 psi. Fill well with 10 bbls 8.5 ppg HEC polymer. Install circulating head, PU 2.5 power swivel, position tubing to put cutter @ 7,560', pump down tubing, 1 BPM @ 400 psi, cut 5" liner @ 7,560'. Final pump pressure was 2.5 BPM @ 400 psi. Hung back 2.5 power swivel and remove circulating head, Pull put of the well with (230) joints of 3-1/2"L80 tubing, (2) cross overs, (12) joints of 2-3/8" PH6 tubing, (2) cross overs, 2-3/8" IF X 2-3/8" Reg cross over and 3-5/8' mechanical cutter. PU / run in the well with (1) spear w/ 4.320 grapple, (1) spear extension, (1) 6-1/8" spear stop, (1) bumper sub, (1) 4-3/4" jar, (4) 4-3/4" drill collars, (1) intensifier, (1) 3-1/2"IF X 3-1/2"EUE cross over, (1) 3-1/2" pup joint and (226) joints of 3-1/2" L-80 tubing, engage 5" liner with spear @ 7,237". Jar @ 120K, pull free with 10K gain on the weight indicator. Pull out of the well with (12) joints of 3-1/2" L-80 tubing, dragging 10K over string weight. Secure well til AM.
5/21/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1078 psi. Fill well with 8 bbls 8.5 ppg HEC polymer. Continue to pull out of the well with (214) joints of 3-1/2" L-80 tubing, 3-1/2" pup joint, (1) 3-1/2" IF X 3-1/2" EUE cross over, (1) 4-3/4" intensifier, stand back (4) 4-3/4" drill collars, (1) 4-3/4" jar, (1) 4-5/8" bumper sub, (1) 6-1/8" spear stop, (1) spear extension and spear with 4.320" grapple. Rig up casing tongs. Lay down (1) 8-5/8" hangar packer followed by 232.67 ft of 5" 18# liner, (1) 7" X 5" overshot with seals and 4' of 5" liner inside overshot. (Note: Cut was made @ 7,560' which is 338' of 5" liner, liner recovered to 7,458' leaving 102' ft of 5" liner from recovered pipe to the cut.) Rig down casing tongs. Run in the well with (1) spear w/ 4.320" grapple, (1) spear extension, (1) 6-1/8" spear stop, (1) bumper sub, (1) 4-3/4" jar, (4) 4-3/4" drill collars, (1) intensifier, (1) 3-1/2"IF X 3-1/2"EUE cross over, (1) 3-1/2" pup joint and (188) joints of 3-1/2" L-80 tubing. Secure well til Monday.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
5/23/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1086 psi. Fill well with 17 bbls of 8.5 HEC polymer. Run in the well with (46) joints of 3-1/2" L-80 tubing, tag 5" liner @ 7,455' (tubing measured depth). Engage spear with 5" liner, pull free15K over string weight and weight drop off to original string weight of 80K. Lay down (2) joints of 3-1/2" L-80 tubing, pull out of the well with (232) joints of 3-1/2" L-80 tubing, (1) 3-1/2" pup joint, (1) 3-1/2' 'IF X 3-1/2" EUE cross over, (1) intensifier, (4) 4-3/4" drill collars, (1) jar, (1) bumper sub, (1) spear stop, (1) spear extension and spear w/ 4.320 grapple. Rig up casing tongs and hydrocrane. Pull out of the well and layg down 107.56 ft of 5" liner, all liner was recovered to cut. Rig down casing tongs. Pick up and broke out fishing tools. Run in the well with 8-5/8" 36# positive casing scraper, bumper sub and (232) joints of 3-1/2" L-80 tubing, Pick up (10) joints of 3-1/2" L-80 tubing, tag 5" liner stub @ 7,564' (tubing measured depth). Note: no restrictions encountered from 7,221' to 7,564'. Pull out of the well with (20) joints of 3-1/2" L-80 tubing. Secure well til AM.
5/24/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1083 psi. Fill well with 7 bbls of 8.5 HEC polymer. Cameron energized spool secondary seal assembly, pressure test and chart record to 2700 psi for 20 minutes, good. Pull out of the well with (222) joints of 3-1/2" L80 tubing and L/D 8-5/8" scraper. N/U 11-1/16" X 7" cross over spool. Rig up wireline and run multifinger caliper log from 7572' (WL tag depth) to surface. Run in the well with (50) joints of 3-1/2" L80 tubing. Secure well til AM.
5/25/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1080 psi. Fill well with 7 bbls of 8.5 HEC polymer. Pull out of the well with (50) joints of 3-1/2" L80 tubing. N/U 11-1/16" X 7" cross over spool. Rig up wireline and run HRVRT log from 7568' (WL correlated depth) to surface. Run in the well with (50) joints of 3-1/2" L80 tubing. Rig out power swivel. Secure well til AM.
5/26/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1084 psi. Fill well with 9 bbls of 8.5 HEC polymer. Pull out of the well with (50) joints of 3-1/2" L80 tubing. N/U 11-1/16" X 7" cross over spool. Rig up wireline and run USIT log from 7562' (WL correlated depth) to surface. Run in the well with 8-5/8" Arrowset packer on (32) joints of 3-1/2" L80 tubing. Set packer @ 1000' and pressure test to 1200 psi, 5 minute hold, good. Bled down pressure. Release Arrowset packer and continue running in the well with (199) joints of 3-1/2" L80 tubing. Set packer @ 7230' (tubing measured depth to center of elements) and pressure test to 1000 psi, 10 minute hold, good. Bled off pressure. Secure well til AM.
5/27/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1050 psi. Fill well with 9 bbls of 8.5 HEC polymer. Release Arrowset packer @ 7230' and continue running in the well with (10) joints of 3-1/2" L80 tubing. Set packer @ 7540' and pressure test to 1100 psi, 100 psi drop in 15 minutes. Release Arrowset packer and pull out of the well to 7340'. Pressure test to 1100 psi, 100 psi drop in 15 minutes. Pull out of the well and set packer @ 7230' pressure test to 2200 psi, held. Rig up PROS. DOGGR Curtis Welty and Jay Huff witnessed pressure testing, With packer @ 7230' pressure test to 2650 psi, record pressure 1 hour, good. Bled off pressure. Release packer, pull out of the well with (160) joints of 3-1/2" L80 tubing. Set packer @ 2250'. Pressure test to 3510 psi, record pressure 1 hour, good. Bled off pressure. Release packer, pull out of the well with (11) joints of 3-1/2" L80 tubing. Set packer @1900'. Pressure test to 3650 psi, record pressure 1 hour, good. Bled off pressure and release packer. Secure well til Tuesday.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
5/31/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1190 psi. Fill well with 18 bbls of 8.5 HEC polymer. Pull out of the well with (62) joints of 3-1/2" L80 tubing. Laid down Arrowset packer. Pick up Arrowset RBP (retrievable bridge plug) and run in the well with (40) joints of 3-1/2" L80 tubing set retrievable bridge plug @ 1260'. Pressure test to 500 psi, good. Bled off pressure. Release RBP and continue to run in the well with (202) joints of 3-1/2" L80 tubing. Tag liner top @ 7562' (tubing measured depth). Set RBP @ 7552'. Pulled (2) joints of 3-1/2" L80 tubing. Dump 10' of sand and displace with 65 bbls 8.5 ppg HEC polymer. Pull out of the well with (240) joints of 3-1/2" L80 tubing broke out retrieving head. Pick up and run in the well with 8-5/8" Arrowset packer on (40) joints of 3-1/2" L80 tubing, set @ 1265'. Pressure test to 500 psi, good. Bled off pressure. Release packer and continue to run in the well with (114) joints of 3-1/2" L80 tubing. Secure well til AM.
6/1/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1190 psi. Fill well with 7 bbls of 8.5 HEC polymer. Continue to run in the well with (121) joints of 3-1/2" L80 tubing. Set, move 8-5/8" Arrowset packer and test as follows: Packer depth / Test to / Test Pressure / Results 7358' / RBP @ 7552' / 2650 psi / Held 7358' / Surface / 1500 psi / Leak off to 1175 psi in 10 minutes 7327' / RBP @ 7552' / 2650 psi / Held 7265' / RBP @ 7552' / 2650 psi / Held 7234' / RBP @ 7552' / 1500 psi / Leak off to 1000 psi in 10 minutes 7234' / Surface / 2650 psi / Held 7244' / RBP @ 7552' / 2650 psi / Held Release packer and pull out of the well with (231) joints of 3-1/2" L80 tubing and laid down 8-5/8" Arrowset packer. Pick up and run in the well with RBP retrieving head on (62) joints of 3-1/2" L80 tubing. Secure well til AM.
6/2/2016	SITP = 0 psi, SICP = 0 psi, Field pressure 1184 psi. Fill well with 5 bbls of 8.5 ppg HEC polymer. Continue to run in the well with (179) joints of 3-1/2" L80 tubing. Reverse circulate sand off of RBP. Work to release RBP. Rig up power swivel. Install circulating head. Circulate and work to release Lockset retrievable bridge plug. Hang back power swivel. Pull out of the well with (241) joints of 3-1/2" L80 tubing and laid down Lockset retrievable bridge plug. Make up 7-3/4" concave mill, 4-1/2 reg X 3-1/2" IF cross over, (4) 4-3/4" drill collars and run in the well with (50) joints of 3-1/2" L80 tubing. Secure well til AM.
6/3/2016	Complete & Review JSP & JSA. No charge to So Cal Gas. SITP=0 PSI. SICP=0 PSI. Field pressure 1180 PSI. Fill annulus with 7 BBLS of 8.5 ppg polymer fluid. Continue to RIH with (188) jts 3-1/2" L80 tubing, tagged top of liner @ 7568', Rig up Weatherford 2.5 power swivel. Redress top of liner f/7568' t/7569', Rig out Weatherford 2.5 power swivel. N/D 11-1/16" x 7-1/16" xover spool with circulating head. POOH with (238) jts 3-1/2" L80 tubing, (4) 4-3/4" Drill Collars, L/D 7-1/2" concave mill. P/U & RIH with 4-1/4" tapper mill, 3-1/8" xover, 3-1/16" xover on (9) jts 2-3/8" PH6, (2) xovers, (50) jts 3-1/2" L80 tubing. Closed in well & secure rig.
6/4/2016	SITP=0 PSI. SICP=PSI. Fill annulus with 5 BBLS of 8.5 ppg polymer fluid. Continue to RIH with (183) jts 3-1/2" L80 tubing. Tagged top of liner @ 7569', Rig up 2.5 Weatherford power swivel. Ream f/7569' t/7588' Rig out 2.5 power swivel. Continue to rih with (7) jts tagged @ 7792'. Rig up swivel, clean out to 7796', unable to work mill past 7796', pumped total of 438 BBLS of 8.5 ppg polymer @ 3.1 bpm, @ 500 psi. Rig out swivel. POOH with (240) jts 3-1/2" L80 tubing L/D (9) jts 2-3/8" Ph6 tubing, tapered mill. P/U & RIH with 7-5/8" sizing shoe, (2) 4-3/4" drill collars, (44) jts 3-1/2" L80 tubing. Closed in well & secure rig.

RESOURCES AGENCY OF CALIFORNIA
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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
6/5/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1185. Fill well with 12 bbls of 8.5 ppg HEC polymer. Continue to run in the well with (196) joints of 3-1/2" L80 tubing, tag with sizing mill @ 7569' (tubing measured depth). Rig up circulating head and power swivel. Mill down with sizing mill to 7575' (tubing measured depth). Pull out of the well with (240) joints of 3-1/2" L80 tubing, (2) 4-3/4" drill collars and laid down sizing mill. Run in the well with (50) joints of 3-1/2" L80 tubing. Secure well til AM.
6/9/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1190 psi. Fill well with 17 bbls of 8.5 ppg HEC polymer. Pull out of the well with (50) joints of 3-1/2" L80 tubing. Run inthe well with over shot, lower mill out ext, packer, setting tool, cross over, 3-1/2" L80 pup joint on (212) joints of 3-1/2" L80 tubing. Secure well.
6/11/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1190 psi. Fill well with 11 bbls of 8.5 ppg HEC polymer. Continue to run in the well with (28) joints of 3-1/2" L80 tubing, 3-1/2" X 10' L80 pup jonit and pick up (1) joint of 3-1/2" L80 tubing, Engage overshot on 5" liner at 7569', set down 20K and over pull 5K over string weight. Baker dropped ball, Rig up king swivel. Pressure up with mud pump on tubing to 500 psi, 1400 psi and 2200 psi, held each for 5 minutes setting SC1 Packer top @ 7555', bled off tbg. Pull test to 20K and was set / good. Close BOP and pressure up on casing to 1500 psi and maintain for 5 minutes, bled off casing, Open BOP. Release from SC1 packer at 14K over. pulled 10' high, and pressured up on tubing to 3400 psi and sheared ball out to ball catcher, Laid down (1) joint of 3-1/2" L80 tubing, 3-1/2" X 1-0' L80 pup joint. Pull out of the well with (240) joints of 3-1/2" L80 tubing and laid down SC1 setting tool. Run in the well with Baker SB plug on (241) joints of 3-1/2" L80 tubing. Set @ 7555', Pull out of the well with (11) joints of 3-1/2" L80 tubing. Attempt to pressure test from liner hanger to surface @ 1000 psi, bleeding down no test. Secure well til Monday.
6/13/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1193 psi. Fill well with 10 bbls of 8.5 ppg HEC polymer. Continue to pull out of the well with (230) joints of 3-1/2" L80 tubing and lay down SB setting tool. Run in the well with Baker 8-5/8" Retrievamatic packer on (232) joints of 3-1/2" L80 tubing and set packer @ 7260'. Pressure test from packer to liner hanger @ 1000 psi, chart record 20 minute test (held). Bled off pressure and release packer. Pull out of the well with (232) joints of 3-1/2" L80 tubing and lay down packer. Make up and run in the well with 7-5/8" gauge mills, (2) 4-3/4" drill collars, (50) joints of 3-1/2" L80 tubing. Secure well til morning.
6/14/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1195 psi. Fill well with 6 bbls of 8.5 ppg HEC polymer. Continue to run in the well with (189) joints of 3-1/2" L80 tubing, tagged with mill @ 5935', Dump (5) sacks, 10' cubic feet sand. Pull out of the well with (189) joints of 3-1/2" L80 tubing, (2) 4-3/4" drill collars, removed extension and lower 7-5/8" gauge mill. Run in the well with 7-11/16" mill, (2) 4-3/4" drill collars, (189) joints 3-1/2" L80 tubing, stopped @ 5931'. Pull out of the well with (2) joints of 3-1/2" L80 tubing. Secure well til morning.
6/15/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1194 psi. Fill well with 7 bbls of 8.5 ppg HEC polymer. Rig down and load out power swivel. Continue to pull out of the well with (187) joints of 3-1/2" L80 tubing. Lay down (2) 4-3/4" drill collars and 7-11/16" gauge mill. Make up 5-3/4" overshot loaded with 2.62" grapple, bumper sub, cross over and run in the well on (241) joints of 3-1/2" L80 tubing. Reverse circulate out sand. engage SB plug and pull out of the liner hanger. Pull out of the well with (17) joints of 3-1/2" L80 tubing. Secure well til morning.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 42 B Sec 28 T3N R16W S.B.B.M.
A.P.I. No. 03721877 Name Tom McMahon (Person submitting report) Title SIMP Project Manager (President, Secretary, or Agent)
Date 2/16/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 714-398-5020

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Start Date	Ops this Report (DOGGR)
6/16/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1194 psi. Fill well with 7 bbls of 8.5 ppg HEC polymer. Pull out of the well with (224) joints of 3-1/2" L80 tubing, lay down 4-3/4" bumber sub, 5-3/4" over shot and SB plug. Run in the well with 8-5/8" Lokset retrievable bridge plug on (40) jts 3-1/2" L80 tubing set @ 1270', pressure test to 500 psi, held for 5 minutes (good). Bled off pressure. Release retrievable bridge plug. Continue to run in the well with (190) joints of 3-1/2" L80 tubing. Set Lokset retrievable bridge plug @ 7191' COE (center of element), top 7185', pressure test to 1000 psi, chart record for 20 minutes (good). Lay down (2) joints of 3-1/2" L80 tubing. Dump 7 sacks of sand, top of sand @ 7181'. Pull out of the well laying down (40) joints of 3-1/2" L80 tubing. Secure well til morning.
6/17/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1198 psi. Pull out of the well laying down (198) joints of 3-1/2" L80 tubing and RBP retrieving head. Remove BOPE. Remove tubing spool. Riser too short. Install tubing spool and pressure test to 500 psi. Secure well til morning.
6/18/2016	SITP=0 PSI. SICP=0 PSI. Field pressure 1198 psi. Remove tubing spool. Install riser spool and pressure test to 1000 psi, chart record 20 minute hold, good. Rig down and load out equipment. Rig down and move hoist. Secure well. Rig released to Porter 26C.
8/1/2016	MIRU 5000 psi test truck and iron to tubing wing valve. RU choke manifold to casing wing valve. RU vac truck to manifold and carbon canisters to vac truck. Opened casing valve and topped off well with fluid by slowly pumping down tubing. With DOGGR representative on location, shut-in casing and pressured-up tubing to 1000 psi. Tested packer, tubing plug and casing for 1 hour. Test recorded digitally and with circle-chart. Test witnessed approved by DOGGR. Bled down pressure, shut-in well, RDMO

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Date/Rec'd 5/12/81

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso
Well Porter #43, Sec. 28, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-00730 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date ....., 19.....

Signature P.S. Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

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Date	
1981	
4-23	1st Day. Moved in and rigged up.
4-24	2nd Day. Finished rigging up on well. Circulated well with 63#/cu. ft. polymer completion fluid. Installed back pressure valve in doughnut. Removed tree and installed 8" Class III BOPE.
25	3rd Day. Pressure tested BOPE with water as follows: Hydril 3000 psi 20 minutes Pipe rams 4000 psi 20 minutes Blind rams 4000 psi 20 minutes Manifold 4000 psi 20 minutes DOG declined to witness tests. Worked tubing loose from packers at 8550' and 8775'. Circulated well. Pulled out laying down Camco gas lift mandrels and safety system. (Retrieved fish from tubing string). Made up Midway 5-1/2" O.D. spear on bumper sub 4 - 3-3/4" O.D. drill collars and accelerator on 2-7/8" tubing and started in well.
4-27	4th Day. Ran in hole to 2224' - "Latched into patch, recovered top swedge." Ran in well with spear. Jarred casing patch loose, recovered 20' of casing patch. Ran in well to 8467'. Circulated gas from well.
4-28	5th Day. Pulled out of well. Picked up 6-1/8" Servco flat bottom mill. Milled casing patch from 2277' to 2279'. Pulled out of well. Made up Midway spear - ran in to top of fish recovered 20' of Pengo patch. Reran Midway spear to recover sub to bottom swedge. Pulling out with fish. Jarring through each collar with 70,000# on jars.

4-29 6th Day. Worked fish up hole to 1148'. Unable to pull fish past 1148', released spear - pulled out of well. Ran in hole with 6-1/4" Servco flat bottom mill. Milling on fish from 1148' to 1149'. Ran in to 3000' with 6-1/4" mill. Pulled out with 6-1/4" mill. Ran 6" mill to 8348'. Fish stopped at top of 29# casing.

4-30 7th Day. Pushed swedge from 8348' to top of packer. Pulled out of well. Ran in with Baker fullbore and retrievable bridge plug. Set bridge plug at 6005' and tested at 2500 psi for 20 minutes. Tested 7" casing from 4770' to 6005' at 2500 psi for 20 minutes. Pulled bridge plug up the hole to 4770'. Tested bridge plug at 2500 psi for 20 minutes. Pulled full bore up to 3045'. Tested 7" casing from 3045' to 4770' at 2500 psi for 20 minutes. Tested 7" casing from 1807' to 3045' - no test - leaked from 2500 psi to 1850 psi in 60 minutes. Tested from surface to 1807' - no test.

5-01 8th Day. Testing casing to locate leaks. No loss in pressure at 2250' - no loss in pressure at 2210'. Retrieved bridge plug and set at 2100'. Located leaks in 7" casing between 927' and 933'. Ran in to 2100' and retrieved Baker bridge plug. Pulled out of well. Changed to beveled collars on 2-7/8" tubing to run through Pengo patch - from 2190' to 8407'.

5-02 9th Day. Changed to beveled collars on 2-7/8" tubing. Ran in and set Pengo casing patch from 2190'-2250'. Pulled out of well - rigged up hydrotester, ran 2-7/8" tubing hydrotesting to 5000 psi. Landed on packer, pulled 20,000# over weight of tubing to check latch.

5-04 10th Day. Installed back pressure valve in doughnut, removed BOPE and installed xmas tree. Pressure tested tree and doughnut at 5000 psi. Displaced 63#/cu. ft. polymer completion fluid from well with 70#/cu. ft. inhibited polymer completion fluid. Removed back pressure valve from doughnut. Blind flanged tree and well-head. Released rig to move to well L-1 in Playa del Rey at 10:00 P.M. 5-4-81

Form 103

SUBMIT IN DUPLICATE

Δ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. PORTER #44, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Date May 2, 1978 Signed P. S. Magruder, Jr.

P.O. Box 3249, Terminal Annex, Los Angeles 90051 Title Agent
(Address) (213) 689-3561 (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1978	
2-7	Moved in California Production Service Rig #D-4 and rigged up. Installed B.O.P.E.
2-8	Tested B.O.P.E. with water and nitrogen as follows: Blind rams at 4000 psi Pipe rams " 4000 psi Hydril bag " 3000 psi Above tests approved by D.O.G. Rigged up Botech and chemical cut 2 7/8" tubing at 7614'.
2-9	Circulated gas-cut drilling fluid from well. Pulled and laid down 7615' of 2 7/8" tubing. Rigged up and picked up 2 7/8" drill pipe.
2-10	Made up 74' of 5 1/2" wash pipe. Measured and picked up 2 7/8" drill pipe.
2-11	Ran in well to 3991' - 5 1/2" wash pipe stopped at 3991'. Pulled out of well and laid down wash pipe. Made up 6 1/4" tapered mill. Ran in and reamed through tight casing at 3991' to 3993'.
2-12	Rig and crew idle.
2-13	Re-worked tapered mill through tight spot in 7" casing at 3984'. Pulled out and made up 5" wash pipe. Ran in and cleaned out sand from 7546' to 7667'. Made up socket, four drill colarrs and bumper sub and jars.
2-14	Ran in well and latched on to 2 7/8" tubing fish.....151' fish from top of tubing to packer. Tried to rotate but socket slipped off. Pulled out. Put new slips in shoe.

2-15 Ran in well and latched on to 2 7/8" tubing fish at 7614'. Ran McCullough free-point tool but would not go through tubing stop on overshot at 7614'. Changed overshot and re-ran free-point tool which stopped at 7615' on fill in 2 7/8" tubing. Pulled up to 2000'.

2-16 Pulled out of well with 2 7/8" drill pipe. Made up 7700' of 2 7/8" tubing with overshot.

2-17 Rigged up McCullough circulating tools. Ran in well and circulated out sand from 7614' to 7619' where tool stopped. Pulled out and ran impression block but 2 1/4" tool stopped at top of fish at 7614'. Pulled out and made up 5" wash pipe with sawtooth shoe. Ran in and cleaned out sand from 7634' to 7677' (43'). Circulated hole clean.

2-18 Ran in well to top of gas lift mandrel at 7677' with washover shoe. Pulled out and made up Midway outside cutter. Ran in well and cut 2 7/8" tubing at 7655'. Pulled out and recovered 44' of 2 7/8" tubing, leaving 107' of fish in well. Made up 2 7/8" socket on 2 7/8" tubing - ran in and located fill at 7656'. Circulated out fill to 7663'.

2-19 Rig and crew idle.

2-20 Ran in well and circulated over fish at 7655' - latched on to fish. Rigged up and ran McCullough inside wash tool and washed out 2 7/8" tubing to 7710'. Pulled out and made up chemical cutter. Made cut at 7700' - pulled out, laying down 2 7/8" tubing. Recovered Camco MMG mandrel and 34' of tubing, leaving 65' of fish in well (tubing and safety system). Ran in 20 stands of 2 7/8" drill pipe.

2-21 Pulled out of well. Made up two joints of 5 1/2" wash pipe with washover shoe. Ran in and located fill at 7668'. Cleaned out fill and washed over Camco safety system to 7765'. Circulated clean. Pulled to top of fish at 7700' and let stand for one hour. Ran back to bottom and had 2' of fill - circulated clean. Pulled above fish.

2-22 Ran in well to top of packer at 7765' and found no fill. Pulled out and made up 2 7/8" socket. Ran in and latched on to fish, but unable to release latch-in. Re-ran socket with different jars. Ran in to top of fish at 7700'.

2-23 Ran in well with socket - jarred, released from Baker packer and recovered entire fish (tubing, safety system, tubing, latch-in locator, seals and production tube). Made up Baker retrieving tool. Ran in well and pulled Baker Retrieva-"D" packer. Made up 6 1/8" bit and casing scraper. Ran in 1500' of 2 7/8" drill pipe.

2-24 Ran in well with 6 1/8" bit and casing scraper, but were unable to clean out deeper than 8046' (effective depth 8090'). Circulated well clean. Made up 190' of 2 7/8" tubing on 2 7/8" drill pipe - ran in to 8039'. Pumped in 50 cu.ft. of water, 36 cu.ft. of Class "G" cement, followed by 10 cu.ft. of water and displaced with drilling fluid. Pulled 350' and circulated well.

2-25 Ran in and located cement at 7921. Pulled out and laid down 2 7/8" tubing. Made up Servco 5 1/2" x 8 1/2" section mill. Ran in to 7805' - made cut out. Milled section in 26# casing from 7805' to 7823'.

2-26 Rig and crew idle.

2-27 Ran in well and milled up 7" casing to 7829'. Circulated well clean. Pulled out of well and changed Servco section mills. Ran in and milled 7" casing to 7833'.
Drilling fluid: 76# 45 sec.

2-28 Circulated well clean. Pulled out and changed Servco section mill. Ran in and milled 7" casing to 7847'. Changed section mill and running in well.
Drilling fluid: 75# 47 sec.

3-1 Milled 7" casing to 7860' with Servco section mill #4. Circulated well clean - pulled out. Ran back in with Servco junk mill - cleaned out metal cuttings to 7860'.
Drilling fluid: 74# 64 sec. 0% sand 1/2% solids.

3-2 Circulated well clean with Servco junk mill at 7921'. Pulled out and made up Servco section mill #5 - ran back in and re-milled from 7847' to 7858' - also milled 7" casing from 7858' to 7870'. Ran Servco 5 3/4" x 12" hole opener and opened hole from 7805'.
Drilling fluid: 74# 46 sec. 9.2 calcium chloride 1% solids.

3-3 Opened hole to 12" to 7870'. Circulated well clean and pulled out. Made up 90' of 2 7/8" tubing on 2 7/8" drill pipe. Ran in and hung tubing at 7878' and pumped in 50 cu.ft. of water, 60 cu.ft. of Class "G" cement with 20% sand and 10 cu.ft. water. Displaced with 185 cu.ft. of drilling fluid. Pulled 320' and circulated.
Drilling fluid: 74# 45 sec.

3-4 Pulled out of well and laid down 90' of 2 7/8" tubing. Made up 6 1/8" bit and casing scraper. Located top of cement at 7820'. Drilled out cement to 7830'. Made up 60' of 2 7/8" tubing and ran in to 7828'. Equalized cement plug, 50 cu.ft. water, 28 cu.ft. Class "G" cement with 20% sand, 10 cu.ft. water and displaced with 185 cu.ft. drilling fluid. Pulled 360' and circulated. Pulled out. Made up bit and casing scraper. Ran in to 7000' and circulated.
Drilling fluid: 74# 50 sec.

3-5 Circulated above cement. Ran in and located cement at 7700'. Drilled out cement to 7814'. Using Dyna-Drill, directionally drilled 6 1/8" hole from 7814' to 7835'.
Drilling fluid: 74# 42 sec. 10.2 calcium chloride 1½ solids.
Surveys: 7820' 11°45' S79°E (original hole 12°45' S79°E).

3-6 Dyna-Drill drilled to 7874' (top 7" 7870'). Circulated well clean. Pulled out and made up drilling assembly. Ran in and reamed from 7809' to 7869'. Drilled from 7869' to 7890'. Circulated clean, surveyed and pulling out.
Drilling fluid: 78# 37 sec.
Survey: 7890' 12°30 S80°E (Original hole 7913' 12°15' S82°E).

3-7 Finished pulling out of well (lost two cones). Made up 120' of 2 7/8" tubing and picked up 7 joints of 2 7/8" drill pipe. Dropped same in well. Made up Brown Oil Tool overshot. Ran in and recovered all fish. Made up 2 7/8" tubing tail (155') on 2 7/8" drill pipe. Running in well to plug with cement and sand.

3-8 Hung tubing at 7885' and pumped 50 cu.ft. water followed by 35 cu.ft. of Class "G" cement with 20% sand and with 10 cu.ft. water. Displaced with 185 cu.ft. drilling fluid. Pulled up 360' and circulated. Ran 6 1/8" bit and casing scraper. Drilled out cement from 7750' to 7808'.

3-9 Ran in hole with Dyna-Drill and directionally drilled from 7808' to 7860'. Pulled out of well. Made up 6 1/8" bit and drilling assembly. Ran in to 7816' - reamed to 7860'. Drilled from 7860' to 7927'.
Drilling fluid: 71# 36 sec.
Surveys: 7824' S85°E and 7897' 10° S77°E (45')

3-10 Pulled out of well to change bit. Ran in well with 6 1/8" bit #6. Drilled and surveyed to 7998'.
Drilling fluid: 73# 49 sec.
Survey: 7988' 10° (30') S73°E (15')

3-11 Pulled out and replaced 6 1/8" bit. Ran in and reamed from 7934' to 7998'. Drilled 6 1/8" hole from 7998' to 8003'. Pulled out and ran back in well with 6 1/8" F-3 button bit #8 - drilled to 8026'.
Drilling fluid: 73# 43 sec.

3-12 Drilled from 8026' to 8100' (6 1/8" hole).
Drilling fluid: 73# 46 sec.
Survey: 8100' 10° S77°E (15')

3-13 Rigged up Schlumberger. Ran in well with Induction Log and recorded from 8100' to 7805' - took sidewall samples. Ran in well with Grant 6" x 13" hole opener.
Drilling fluid: 73# 46 sec.

3-14 Unable to open Grant 6" x 13" hole opener. Hole opener stuck in well at 7810', but worked same free and pulled out of well. Ran in well with 6 1/8" x 10" Grant hole opener and opened hole from 7808' to 7818'.
Drilling fluid: 73# 46 sec.

3-15 Ran in well with new Grant 6" x 13" hole opener and opened hole from 10" to 13" from 7808' to 7818'. Opened 6 1/8" hole to 13" from 7818' to 7853'. Pulled out of well and found nose cone missing from hole opener. Ran back in well with 6 1/8" bit and cleaned out from 7853' to 8090'. Unable to clean out below 8090'.

3-16 Ran in well with 6 1/8" x 13" Grant hole opener and opened hole from 7853' to 7857'. Pulled hole opener out of well. Ran in hole with 6 1/8" x 13" Grant hole opener and opened hole from 7857' to 7873' (16').
Pulled out of well - found parted bumper sub.
Drilling fluid: 73# 50 sec.

3-17 Ran in well with 5 7/16" Brown overshot. Located top of fish at 7555'. Engaged fish and recovered same. Installed new bumper sub. Ran in well with new 6 1/8" x 13" Grant hole opener and opened hole from 7873' to 7900' (28'). Ran in well with new 6 1/8" x 13" Grant hole opener and opened hole from 7901' to 7914' (13'). Circulated. Pulled out of well. Ran in well with new 6 1/8" x 13" Grant hole opener.
Drilling fluid: 73# 50 sec.

3-18 Opened hole from 7913' to 7938' (15'). Circulated. Pulled out of well. Ran in well with new 6 1/8" x 13" Grant hole opener and opened hole from 7938' to 7954' (16'). Pulled out of well and left one arm and nose cone in well. Ran in well - milled and pushed junk from 7954' to 7994'.
Drilling fluid 73# 50 sec.

3-19 Pushed junk with 6" mill to 8000'. Pulled out of well. Ran in well with new junk mill and pushed junk to 8014'. Pulled out and changed mills.

3-20 Finished running in well. Milled and pushed junk down hole to 8022'. Pulled out and changed mills. Ran in well and reamed from 8014' to 8022'.
Drilling fluid: 75# 55 sec.

3-21 Milled and pushed junk down to 8091'. Pulled out and made up Tri-State 6" x 13" hole opener. Ran in and reamed from 7808'.
Drilling fluid: 74# 53 sec.

3-22 Ran in well and reamed 13" hole from 7808' to 7954'. Opened 6 1/8" hole to 13" hole from 7954' to 7975' (21'). Pulled out. Ran back and opened hole from 7975' to 7994'. Circulated clean.
Drilling fluid: 74# 57 sec.

3-23 Finished pulling out of well. Made up Tri-State hole opener #3. Ran in and opened 6 1/8" hole from 7994' to 7996'. Pulled out. Ran in with hole opener #4 and opened hole from 7996' to 7998'. Pulled out. Ran 6 1/8" junk mill to 7998'.

3-24 Milled and pushed junk to 8091'. Pulled out and made up 6" x 13" Tri-State hole opener #5. Ran in and opened hole from 7998' to 8002' - pulled out. Ran in hole with opener #6 and opened hole from 8002' to 8005'.
Drilling fluid: 74# 51 sec.

3-25 Opened 6 1/8" hole to 13" to 8007'. Pulled out and changed tools. Ran in and opened hole to 8009'. Pulled out and changed tools but could not open hole. Pulled out and ran back with 6" x 11" button-type hole opener
Drilling fluid: 73# 51 sec. 5 calcium chloride 4% solids.

3-26 Ran in well with Tri-State 6" x 11" hole opener and opened hole to 11" from 8009' to 8027'. Pulled out and ran back with 6" x 13" hole opener. Opened 11" hole to 13" hole from 8009' to 8025'. Pulled out to change hole opener. Ran back to 8025'.
Drilling fluid: 73# 49 sec. 7 calcium chloride 4% solids.

3-27 Opened 6 1/8" hole to 13" from 8025' to 8027'. Pulled out and ran back in with 6" junk mill, reamed to 8058' but were unable to clean out any deeper. Pulled up and made up 6" x 13" hole opener. Ran in but could not get deeper than 8023'.
Drilling fluid: 74# 53 sec.

3-28 Pulled hole opener #11 and made up 6 1/8" junk mill. Ran in and reamed through tight spot at 8017' and reamed to 8042' where mill stopped. Pulled out and made up junk basket. Ran in and milled for two hours at 8042'. Pulled out but recovered no junk. Ran in with 6 1/8" junk mill.
Drilling fluid: 74# 49 sec.

3-29 Ran in well with 6 1/8" junk mill but were unable to clean out deeper than 8042'. Pulled out and made up 6" x 13" Tri-State hole opener. Ran in and stopped at 8014'. Ran in and reamed through tight spot at 8014 with junk mill (6 1/8").
Drilling fluid: 74# 54 sec.

3-30 Circulated well clean from 8042' with 6 1/8" junk mill. Ran Tri-State hole opener and reamed through tight hole at 8014' - opened hole from 8027' to 8029'. Ran new hole opener and opened hole from 8029' to 8033'. Changed drilling line.
Drilling fluid: 73# 49 sec.

3-31 Pulled out leaving two drill collars and hole opener on bottom. Made up overshot, jars and bumper sub. Ran in, worked over fish, pulled out and recovered all fish. Ran in and opened 6 1/8" hole to 13" from 8031' to 8036'.
Drilling fluid: 74# 43 sec.

4-1 Pulled out to change hold opener. Ran in and opened hole to 13" from 8036' to 8042' and circulated hole clean. Ran Caliper Log - log showed 12" hole. Ran in hole with 6" x 13" hole opener.
Drilling fluid: 74# 50 sec.

4-2 Reamed from 7808' to 8042' twice. Pulled out. Rigged up and ran Dresser Atlas Caliper Log (4-arm) which showed the hole 13" or greater. Ran in well with 6 1/8" bit and drill collars to shoe at 7800'. Cleaned pits, ran to bottom, changed over to filtered polymer drilling fluid.
Drilling fluid: 69# 43 sec.

4-3 Assembled 5" 10-mesh wire-wrapped liner and ran same to 8042'. Liner hanger malfunctioned. Pulled out of well leaving liner on bottom. Ran Midway Fishing Tool spear and recovered all liner intact. Tryad Service inspected liner and rejected one damaged joint of 5" wire-wrapped liner. Re-assembled 5" liner.

4-4 Ran 399.95' of 5" liner, including 236.53' of 5" 15# 10-mesh wire-wrapped screen, Burns lead seal hanger withhold down slips and a Burns port collar. Also fitted on bottom with a 5" bull plug. Hung liner with bottom at 8039' and with top of liner hanger at 7639' - Burns port collar at 7642'. Set lead seal and tested with 1000 psi for 5 minutes - O.K. Pulled out. Replaced Burns setting tool with Burns gravel packing tools. Ran back and tested port collar and gravel packing tools.

4-5 Gravel packed liner with 200 sacks of 20-40 mesh gravel. Back-washed two sacks for a total pack of 198 sacks in place. Closed port collar. Pulled gravel pack tools and ran liner washer. Washed liner and pulled liner washer. Ran gravel pack tools and opened port collar. Pulling out of well.

4-6 Finishing pulling out of well. Ran Photon Log from 8038' to 7645' which showed good gravel pack. Ran Baker Model "C" bridge plug and set same at 7630'....could pump formation at 1500 psi. Set bridge plug at 7625' but would not hold pressure. Pulled to 3800' - plug held pressure. Ran Model "B" bridge plug and set same at 7630'...could pump into formation at 1500 psi. Pulled out of hole.

4-7 Ran in hole with fullbore. Found leak in 7" casing at 3990'-4000'. Obtained breakdown at 2.8 barrels per minute at 1500 psi. Ran and set Model "B" bridge plug at 4100'. Equalized 5 sacks of sand and pulled up - waited for one hour and located sand at 4082'. Pulled out of hole. Ran in open-end

4-7 (cont'd) drillpipe and equalized 100 sacks of Class "G" cement. Pulled up to 3200'. Squeezed 72 cu.ft. of cement away through leak with a final pressure of 2200 psi. Closed well in with 2200 psi for one hour. Pulled out. Ran bit and casing scraper to 3522'.

4-8 Drilled out cement from 3848' to 4001'. Worked scraper through tight casing from 3996' to 4001'. Leak took fluid under 1500 psi pressure. Pulled out of hole. Ran in open-end drill pipe to 3985'. Equalized 100 sacks of Class "G" cement plus 0.8% Halad 9. Pulled 14 1/2 stands and reversed out 100 cu.ft. drilling fluid. Squeezed 100 cu.ft. cement into casing leak. Closed well in with final pressure of 1800 psi.

4-9 Rig and crew idle.

4-10 Pulled out of well. Made up 6 1/8" bit and casing scraper. Ran in and tagged cement at 3974'. Cleaned out firm cement to 4013'. Tested hole at 3996' with 1500 psi for 15 minutes - O.K. Pulled out. Ran back in with 6 1/8" tapered mill and worked through bad pipe at 3996'. Pulled out. Ran back in with Baker retrieving tool and pulled bridge plug from 4100'.

4-11 Ran in well to 7600' and changed over to fresh water with friction reducer, pulled to 4000' and pressure tested 7" casing as follows:

4000'	to	7630'	with	2300 psi	for	60	minutes
4000'	"	surface	"	2300 psi	"	60	"
3500'	"	"	"	2600 psi	"	60	"
3000'	"	"	"	2800 psi	"	60	"
2500'	"	"	"	3100 psi	"	60	"
2000'	"	"	"	3400 psi	"	60	"
1500'	"	"	"	3700 psi	"	60	"
750'	"	"	"	4000 psi	"	60	"

All above tests were O.K.
Pulled out. Made up retrieving tool. Running in well.

4-12 Finished running in well. Changed over to 69#/cu.ft. polymer drilling fluid. Latched on to bridge plug at 7630'. Pulled out and laid down bridge plug. Rigged up McCullough. Ran in with Baker Retrieva-"D" packer - stopped at 3995'. Pulled out. Ran in and reamed tight spot in 7" casing at 3995'. Pulled up for one hour. Ran back in and did not feel bad casing - pulled up to 120'.

4-13 Pulled out with 6 1/4" tapered mill. Re-ran packer and same stopped at 3996'. Ran in with tapered mill and 6 1/8" casing scraper. Ran to 4100' but did not locate any tight casing. Ran in with mill, 6 1/8" stabilizer and 6 1/4" casing scraper. Reamed tight casing from 3996' to 3941'. Pulled out and ran Baker Retrieva-"D" packer and set same at 7600'. Ran in with mill and stabilizer.

4-14 Finished pulling out of well with 6 1/4" tapered mill and 6 1/8" stabilizers. Made up "GO" casing patch with top at 3971' and bottom at 4012' (leak 3990'-4000') - could not release setting tool and while working, tool parted. Made up Midway 3 1/4" socket with jars and bumper sub. Latched on to tools and jarred same loose. Pulled out and laid down "GO" tools. Running in well with bit, bit sub on drill pipe to locate casing patch.

4-15 Ran in well and tagged top of 7" casing patch at 3971'. Pulled out. Laid down drill pipe. Loaded out drill pipe, drill collars and Kelly - unloaded 2 7/8" tubing. Ran in well with 40 joints of tubing.

4-16 Rig and crew idle.

4-17 Pulled 2000' of tubing. Made up Baker seal assembly and Camco safety system and pressure tested. Hydrotested 2 7/8" tubing in well, cleaning threads, changing collars and testing to 5000 psi for one minute.

4-18 Stabbed into packer at 7603' and spaced out. Pulled 25,000# over weight of string to check latch and landed tubing with 10,000# on packer. Removed B.O.P.E. and installed Xmas tree. Tested to 5000 psi for 30 minutes. Changed over to lease salt water. Ran Archer-Reed tubing plug and set same in NO-GO nipple at 7592'. Pressure tested seals, packer and 7" casing patch at 2000 psi for 20 minutes. Removed tubing plug.
RELEASED RIG at 10:00 P.M.

GCA/jp

6/59

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County Aliso Canyon
Well name and No. PORTER #45, Sec. ....., T ....., R ....., B. & M.
A.P.I. well No. ..... Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date June 27, 19 77.

Signature P.S. Magruder Jr.

P.O. Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
4-25-77	Killed well using Halliburton pump truck. Took 320 barrels of 70# polymer drilling fluid.
5-18-77	Rigging up Finley Rig #D-11 and installing steel beams under derrick and sub-base.
5-19-77	Rigged up. Removed Christmas tree. Attempted to install double shaffer gate - studs on gate landed on doughnut locking studs. Reinstalled Christmas tree and secured well.
5-20-77	Installed Crossover spool and flange from 6-900 tubing head to 10-1500 flange. Installed Class III 5000# B.O.P.E. Tested blind rams, 2 7/8" rams and Hydril bag with water at 3000 psi for 20 minutes each. Tested same with nitrogen at 3000 psi for 20 minutes each. Hooked up choke and kill line.
5-21-77	Pulled tubing and measured out of hole. Laid down all production jewelry. Ran in hole with 7" casing scraper and 6 1/8" bit. Ran in to top of Baker Model "D" packer - circulated.
5-22-77	Rig and crew idle.
5-23-77	Finished running in hole with bit and scraper. Circulated hole clean, started out of hole - 8 stands dragging. Pulled to 4760' - hole tight. Pulled to 185' - pipe stuck - worked free.
5-24-77	Finished pulling out of hole. Made up DR plug. Ran in and set plug in packer at 7355'. Tested to 1500 psi for 15 minutes - O.K. Pulled out of hole. Made up Baker bridge plug, ran in and set same at 120'. Pulled out. Secured well.
5-25-77	Rigged up Alco casing jacks. Unlanded 7" casing. Cut off 10 3/4" casing. Removing cellar floor.
5-26-77	Continuing to remove cellar floor. Secured rig.

5-27-77 Removing dirt from around conductor pipe. Cut off conductor and 10 3/4" casing. Welded on new 5000 psi casing head. Checked weld with gamma-ray device. Finished digging out cellar.

5-28-77 Cleaned out cellar - set rebar for cement - poured cellar floor and walls.

5-29-77 Rig and crew idle.

5-30-77 Removed forms from cellar. Using spear, relanded 7" casing at 30,000#. Set slips and installed packing. Installed seal flange and 10" x 10" spool. Tested seals to 4000 psi. Installed and testing B.O.P.E.

5-31-77 Attempted to test blind rams - no good. Changed bridge plug, set at 90' - retested - no good. Moved plug to 70' - tested with water, as follows:

Blind rams with 4000 psi for 20 minutes - O.K.
Pipe rams with 4000 psi for 20 minutes - O.K.
Hydril bag with 3500 psi for 20 minutes - O.K.

Rigged up NOWSCO-master valve leaking-no replacement. Shut well in.

6- 1-77 Attempted to test B.O.P.E. but fullbore retainer leaked. Pulled fullbore and made scraper run to 60'. Re-ran fullbore and set at 60'. Tested pipe rams to 4000 psi for 20 minutes - O.K. Tested Hydril bag to 3000 psi for 20 minutes - O.K. Both tests nitrogen. Made up Baker retrieving tool and ran in well to 2500'.

6- 2-77 Ran in hole with Baker DR plug catcher. Pulled DR plug. Ran in with Baker packer plucker mill. Milled slips from packer. Pulling out of hole.

6- 3-77 Finished pulling out of hole with Baker packer mill and Baker Model "D" packer. Ran in hole with bit and scraper. Circulated hole clean. Pulled out and laying down 2 7/8" tubing.

6- 4-77 Finished laying down 2 7/8" tubing and drill collars and scraper and bit. Changed pipe rams from 2 7/8" to 5 1/2". Removed flowline and installed shooting flange. Rigged up and ran GO-Wireline Services with Baker Model "F" packer at 7350' with plug in NO-GO nipple below "F" packer. Installed flowline and cleaned threads on 5 1/2" liner. Shut rig down.

6- 5-77 Rig and crew idle.

6- 6-77 Rigged up Hydro-Test and power tongs. Ran 5 1/2" 19.81# casing, hydrotesting to 5000 psi. Secured well.

6- 7-77 Finished running 5 1/2" 19.81# liner and hydrotesting to 5000 psi for one minute. Stabbed into packer at 7350'. Rigged up H. & H. Oil Tools pressure pump and tested casing and seals to 2000 psi for 15 minutes - O.K. Removed B.O.P.E. Set slips and landed with 50,000# on packer. Hooked up B.O.P.E. lines.

6- 8-77 Rigged up H. & H. Oil Tool and tested 5 1/2" casing to 2000 psi. Tested upper seal on 7" casing flange for 20 minutes at 4000 psi. Removed B.O.P.E. and installed pack-off flange for 5 1/2" casing. Tested packing on flanges with 5000 psi. Rigged up B.O.P.E. and floor. Ran in and set bridge plug at 90'.

6- 9-77 Tested B.O.P.E. with water using H. & H. pump to 4000 psi on blind rams and pipe rams and tested Hydril bag with 3000 psi - all tests O.K. Rigged up NOWSCO and tested with nitrogen at the same pressures - O.K. Retrieved Baker bridge plug. Ran in with Archer-Reed Wireline and retrieved plug from packer. Picked up 64 joints of 2 3/8" tubing.

6-10-77 Ran and set Baker Model "F-1" Production Packer on Go-International wire line at 7320'. Rigged up and hydrotesting in hole with Otis Safety System. Testing tubing to 5000 psi for 1 minute.

6-11-77 Hydrotested in hole and changed collars. Spaced tubing and landed with 8000# on packer. Removed B.O.P.E. Installed Christmas tree. Tested tree to 5000 psi for 20 minutes - O.K. Changed over to lease water.

6-12-77 Rig and crew idle.

6-13-77 Archer-Reed pulled dummy from safety valve and set plug in NO-GO nipple. Tested seals and packer with 1500 psi for 20 minutes. Pulled plug. Rig released at 2:00 P.M.

5-6-85 Woods

Day 1. Loaded rig out at Howard and Smith #8 and moved to Porter #45 at Aliso Canyon. Set in rig.

5-7-85 Woods

Day 2. Finished rigging up. Raised mast and installed 2" lines to well head. Killed well with 168 bbls. with 63#/cu.ft. polymer completion fluid. Circulated well. Secured well.

5-8-85 Woods

Day 3. Filled well with 53 bbls. Removed 6" xmas tree and installed 6" by 5,000 psi BOPE. Tested blind and pipe rams and choke manifold to 3,000 psi, Hydril to 2,500 psi. Released from Baker packer pulling out of well.

5-9-85 Woods

Day 4. Finished pulling out of well laying down production equipment. Ran kill string in well; waited on Baker No Go plug. Pulled kill string and rigged up Baker wireline. Set plug in No Go at 7364'. Ran kill string in well.

5-10-85 Woods

Day 5. Pulled kill string out of well. Made up 5-1/2" spear. Removed BOPE and tubing head and seal flange. Latched spear into 5-1/2" casing. Removed packing and slips from 5-1/2" casing. Reinstalled BOPE. Changed pipe rams to 5-1/2" laying down 5-1/2" casing. Total of 85 joints out of well.

5-11-85 Woods

Day 6. Finished pulling 5-1/2" 20# Hydril triple seal casing. Total joints 182 and a cut-off of 23'. Ran Baker latch in with 2 seals and 2-3/8" tubing. Latched into packer at 7350'. Tested packer with 1,000 psi for 1 hour. Released from packer and pulled 50 stands out of well.

5-13-85 Woods

Day 7. Rig idle for casing inspection.

5-14-85 Woods

Day 8. Rig idle for casing inspection.

5-15-85 Woods

Day 9. Pulled out of well. Rigged up Baker wireline. Ran latch onto No Go plug at 7361'; worked plug out. Rigged up to run 5-1/2" 20# casing and changed pipe rams to 5-1/2" Ran casing and Hydro tested to 4,000 psi. Total of 60 joints in well.

5-16-85 Woods

Day 10. Ran 5-1/2" casing to 7350'. Inhibited fluid bewtween 5-1/2" and 7" casing. Latched into packer and pulled 20,000# over weight. Lifted up BOPE and installed slips for 5-1/2" casing with 20,000# on packer. Cut-off 5-1/2" casing. Installed seal flange and tubing head. Reinstalled BOPE and pressure tested to 1,500 psi. Retrieved bridge plug from 300'. Ran kill string in well. Secured well.

5-17-85 Woods

Day 11. Pulled out of well. Rigged up Hydrotest and made up production equipment hydrotesting 2-3/8" tubing in with 5,000 psi. Located packer at 7320'. Latched in and pulled 20,000# over weight. Tested packer with 1,500 psi for 30 minutes. Released from packer and spaced out tubing. Circulated polymer completion fluid out with lease salt water. Landed tubing with 8,000# on packer. Removed BOPE. Installed 6" xmas tree and tested with 5,000 psi. Released rig at 7:00 P.M. 5-17-85.

6/27

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County Aliso Canyon
Well name and No. PORTER #47, Sec. 28, T 3N, R 16W, S.BB. & M.
A.P.I. well No. 037-00734 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date June 27, 1977.

Signature P. S. Magruder Jr.

P. O. Box 3249, Terminal Annex, Los Angeles, California 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
5-10-77	Tore out California Production Service Rig #D-3 from Porter #25 and moved and rigged up on Porter #47.
5-11-77	Finished rigging up. Circulated and conditioned drilling fluid. Removed Christmas tree and installed Class III B.O.P.E.
5-12-77	Finished installing Class III B.O.P.E. Tested B.O.P.E. with water as follows: Blind Rams at 4300 psi for 37 minutes - O.K. Pipe Rams " 4500 " " 29 " - O.K. Hydril Bag " 3000 " " 27 " - O.K. Tested B.O.P.E. with nitrogen as follows: Hydril Bag at 3000 psi for 22 minutes - O.K. Pipe Rams " 4000 " " 21 " - O.K. Blind Rams " 4000 " " 24 " - O.K. All above tests witnessed by D.O.G. Pulled hydrostatic packer loose with 85,000#. Pulling out of hole with 2 7/8" tubing and laying down 1" side line.
5-13-77	Finished laying down 2 7/8" tubing with 1" GST side line, Page ball valve and packer. Ran in hole to 2000'.
5-14-77	Ran chemical cutter and cut 2 3/8" tubing at 8130'. Pulled tubing. Picked up fishing tools. Ran in hole. Jarred 5" 18# liner hanger out of hole. Recovered 5" 18# liner hanger with drive-over adapter. Ran in hole. Jarred out landing nipple and 15' 2 3/8" tubing.

OG103 (6-76 GSP) 10M1

5-15-77 Rig and crew idle.

5-16-77 Finished coming out of hole with spear - no recovery. Ran in hole with overshot - got over fish - pulled out of hole, no recovery. Ran in hole with 4 1/8" mill to 6850'.

5-17-77 Finished running in to 8112' with 4 1/8" mill. Milled from 8112' to 8118'. Circulated well clean. Pulled out. Made up overshot. Ran in hole to 6850'.

5-18-77 Ran in hole with overshot to 8118'. Worked over fish and jarred fish loose. Pulled out of hole. Recovered 13' 2 3/8" liner. Picked up junk mill. Ran in hole and milled 2 3/8" liner from 8130' to 8132' to remove damaged pipe. Circulated hole clean. Pulled out to 5000±.

5-19-77 Finished pulling out of hole. Picked up four joints of 3 3/4" wash pipe with 4 1/8" shoe. Ran in hole and located fill at 8162' or 44' below top of fish. Washed over from 8162' to 8233' (top of packer). Circulated hole clean. Pulled up to 2000'.

5-20-77 Finished pulling out of hole. Picked up overshot. Ran in hole and worked over fish at 8132'. Pulled fish out of packer at 8233'. Pulled out of hole. Recovered 96' of fish or all of 2 3/8" liner. Picked up 2 3/8" Hydril tubing and ran on 2 3/8" 8RD tubing. Ran in hole, stabbed through packer at 8233' and ran to 8326' (no fill). Circulated 1/2 hour. Pulled to 8225'. Circulated hole clean. Pulled out of hole.

5-21-77 Finished pulling out of hole. Ran in hole with mill-over tool. Milled on packer. Jarred on packer. Pulling out of hole.

5-22-77 Rig and crew idle.

5-23-77 Finished pulling out of well with packer mill. Left retriever in well. Ran in well to 8234'. Milled on packer, making approximately 6" and dulling mill. Pulled out for new mill.

5-24-77 Finished pulling out of well. Picked up new milling shoe. Ran in well and milled on packer at 8234'. Milled on packer for one hour. Packer moved down. Pushed packer to 8305'. Pulled out of well. Picked up spear and ran in to 8305'. Pulled out of hole with no recovery. Picked up overshot and ran in to 2000'.

5-25-77 Ran in well with overshot. Worked over fish. Pulled out of well with no recovery. Laid down fishing tools and wash pipe. Ran in well with flat bottom mill. Milled on packer and junk from 8288' to 8355'. Pulled out of well.

5-26-77 Finished pulling out of well with mill. Picked up 6" bit and scraper. Ran in well to top of liner at 6889'. Pulled out of well. Ran drillable bridge plug on wireline and using reference collars, set at 8153'. Shot four 1/2" holes at 8137'. Picked up WSO tools. Ran in well 500' and filled tubing with polymer drilling fluid. Running in well.

5-27-77 Ran in well with WSO tools. Set packer at 8096', tail at 8100'. Tool open at 8:15 a.m. with no blow for 15 minutes, weak blow for 10 minutes, then dead throughout test of 90 minutes. Pulled tester out of well, had no recovery. Pressures as follows:

IH - 3650 - 3650 psi
FH - 3650 - 3650 psi
IF - 250 - 300 psi
FF - 250 - 300 psi

WSO by Company on holes at 8137'. Ran in well with 5" 18# Full Bore to 8150' and changed over to fresh water with surface tension agent. Tested as follows:

8153' - 8139' with 2000 psi for 20 minutes - O.K.
8153' - 8108' with 2000 psi for 15 minutes - Lost 400 psi.
8108' - Surface with 2000 psi for 20 minutes - Lost 400 psi.
6905' - Surface with 2700 psi for 70 minutes - O.K.

5-28-77 Finished pulling out with full bore. Picked up new full bore and ran in well. Tested 7" casing from 6350' to surface - no test - packer leaking. Pulled out of well, changed full bore. Hydrotested tubing in well. Test casing as follows:

6340' to Surface with 3000 psi for 60 minutes - O.K.
5085' to Surface with 3200 psi for 60 minutes - O.K.

5-29-77 Rig and crew idle.

5-30-77 Pulled up to 4389' - tried to test casing but retainer did not hold. Pulled out of well. Ran in well with 7" scraper to 4395'. Backscuttled well clean. Pulled out of well. Ran in well with Lok-Set packer to 4389'. Tested as follows:

4389' to Surface with 3400 psi for 60 minutes - O.K.
3700' to Surface with 3800 psi for 60 minutes - O.K.
2100' to Surface with 4000 psi for 60 minutes - O.K.

Pulled out of well. Picked up 5" casing scraper, ran in well.

5-31-77 Ran in well to 8153' with bit and scraper. Backscuttled well clean. Pulled out of well. Ran Lok-Set to 8138' and tested bridge plug. Pulled up well looking for leaks. Found leak at 8137' (new WSO hole). Pumped into WSO holes with 10 cu.ft. per minute under 3400 psi. Pulled up well looking for leaks. Found leak at 7328'. Ran in to 8150', changed over to polymer. Changed pipe rams. Pulled up to 7820'. Squeezed holes at 8137' with 20 cu.ft. water ahead, 25 sacks Neat cement and 20 cu.ft water behind. Displaced with 253 cu.ft. drilling fluid. Held at 3300 psi. Held 1200 psi on annulus. Pulled up 120'. Backscuttled. Pulled out of liner.

6- 1-77 Ran in well and set squeeze tool at 7300'. Unable to obtain breakdown on leak at 7328'. Pulled out of well. Rigged up and shot four 1/2" holes at 7328'. Ran in well and set squeeze tool at 7291'. Pumped into holes with 4 cu.ft./minute under 3900 psi. Pulled tool up to 6978'. Pumped 20 cu.ft. water ahead; 25 sacks Neat Class "G" cement, 20 cu.ft. water behind. Displaced with 216 cu.ft. drilling fluid. Held 1200 psi on annulus. Pumped 15 cu.ft. cement away, holding 3300 psi for 30 minutes. Pulled out of well. Picked up 4 1/8" bit and scraper. Ran in well.

6- 2-77 Ran in well with 4 1/8" bit and scraper. Drilled out cement from 7141' to 7350'. Pressure tested casing from surface to 8100' with 2000 psi for 33 minutes. . . . lost 250 psi. Circulated well clean. Pulled out of well with bit and scraper. Ran in well with squeeze tool.

6- 3-77 Ran in well to 7291'. Tested from 7291' to 8115' with 4000 psi. Pressure dropped to 2200 psi. Ran in to 7353'. Tested from 7353' to 8115' with 2000 psi for 60 minutes - O.K. Tested from 7353' to Surface with 2000 psi for 60 minutes - O.K. Pulled out of well. Picked up 4 1/8" bit and scraper. Ran in to 7353'. Pushed cement plug to 8076'. Drilled cement to 8153'. Circulated hole clean. Pulled out of well.

6- 4-77 Pulled out of well. Picked up squeeze tool. Ran in well to 8150'. Changed over to fresh water. Tested casing from 8100' to 8155' with 2000 psi - lost 200 psi in 30 minutes. Tested from 8150' to 8155' with 2000 psi for 14 minutes - O.K. Tested from 8102' to surface with 2000 psi - lost 300 psi. Had leaks in squeeze tool and leak in B.O.P.E. rams. Pulled out of well. Ran in well with new fullbore. Preparing to change rams.

6- 5-77 Rig and crew idle.

6- 6-77 Installed new pipe rams. Ran in well to 7355'. Tested from 7355' to surface with 2000 psi for 60 minutes - O.K. Tested from 7355' to 8155' - no good. Tested from 8107' to 8155' - pressure dropped from 2000 psi to 1800 psi in 30 minutes. Breakdown holes with 5 cu.ft./minute at 3800 psi. Cemented with 20 cu.ft. water ahead, 25 sacks Neat cment, 20 cu.ft. water behind, displaced with 246 cu.ft. testing fluid. Squeezed approximately 22 cu.ft. away, holding 4000 psi for two hours. Worked squeeze tool loose. Pulled out of well wet. Had 10 joints of 2 3/8" tubing filled with cement. Ran in well with 4 1/8" bit and scraper.

6- 7-77 Finished running in well with 4 1/8" bit and scraper. Located cement at 7821'. Drilled out cement to 8044' (93' above WSO holes at 8137'). Cleaned out stringers to 8155'. Circulated hole clean. Measured tubing out of well. Made up squeeze tool. Ran in well to top of liner.

6- 8-77 Finished running in well to 8107'. Tested from 8107' to 8155' with 2000 psi for 60 minutes - lost 200 psi in 60 minutes. Tried to obtain break-down at 4000 psi - losing 400 psi in 8 minutes. Pulled out of well. Shot four 1/2" holes at 8136'. Ran in well with WSO tool with 540' water cushion. Tool open for 1-1/2 hours with very weak blow for one minute - well dead throughout the test. Pulling out of well with WSO tools.

6- 9-77 Finished pulling out with WSO tool. Ran in well with squeeze tool. Tested from 8107' to 8155' with 4000 psi - unable to obtain breakdown on WSO holes at 8137'. Pulled out of well. Ran in with 4 1/8" junk mill and junk sub. Changed over from water to polymer. Cleaned out to top of packer and milled on same. Pulled out of liner.

6-10-77 Ran in well and drilled out bridge plug. Cleaned out to 8355'. Circulated bottoms up. Pulled out of well. Ran 4 1/8" bit and scraper in well to 8355'. Circulated bottoms up. Pulled out of well.

6-11-77 Ran Otis 5" 18# Permatrieve packer and set same at 8153'. Ran Otis 5" 18# Permatrieve packer and set same at 6891'. Ran Otis 12 seals, X-over sub, 41 joints (1256') 2 3/8" 4.6# Hydril super flush joint. Hydril x Otis X-over sub, 4 Otis seals, Otis Latch-in-locator. 2 3/8" 8RD x 2 7/8" 8RD X-over sub, 10' Otis blast joint, Otis No-Go nipple, 20' Otis blast joint, Otis safety system, 2 7/8" 6.5# 8RD J-55 tubing. Changing collars, using Baker Seal and hydrotesting all to 5000 psi for one minute.

6-12-77 Rig and crew idle.

6-13-77 Continued running tubing string and changing collars. Hydrotested at 5000 psi for one minute. Spaced out tubing. Spotted workover fluid with inhibitor between both PW packers. Landed tubing with 12,000# compression. Pulled 20,000# over to check J-latch. Removed B.O.P.E. and reinstalled Christmas tree.

6-14-77 Tested tubing head flange, doughnut and Christmas tree at 5000 psi for 20 minutes. Changed over from polymer workover fluid to lease salt water. Ran wireline pulling tool and retrieved side-door choke. Ran tubing plug and set in "XN" nipple. Tested PW packer and seals at 1900 psi for 20 minutes - O.K. Retrieved plug in "XN" nipple.
Crew and rig released at 4:00 P.M. (6-14-77)

RESOURCES AGENCY OF CALIFORN
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

FEB 18 2011

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Porter 50 A
A.P.I. No. 03722737

Field: Aliso Canyon
Surface Location: Sec 27 T 3N R 16W S.B.B.M.
Title:

County: Los Angeles

Date: 2/18/2011

(President, Secretary, or Agent)
Signature:
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number:

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
12/10/2010	Moved in and rigged up workover rig. Rigged up to kill well.
12/13/2010	Rigged up wireline and ran in well with pulling tool. Pulled prong and plug from no/go at 6855'. Opened well and had 0 psi tubing and casing. Rigged up and pumped 50 bbls hi-vis polymer and displaced with 40 bbls 9.1 ppg. Killed well per schedule with 465 bbls. Installed back pressure plug and nippled down production tree. Nippled up and function tested class III BOP.
12/14/2010	Tested blind rams to 5000 psi (would not test due to tubing hanger leaking by). Tested blind rams to 300 psi low and 3200 psi high for twenty minutes. Tested pipe rams to 300 psi and 3200 psi for twenty minutes. Tested Hydril to 300 psi and 3200 psi for twenty minutes. Tested choke manifold and all control valves to 3200 psi for twenty minutes. (M. Davis DOGGR waived witness of inspection) Backed out hold down studs and attempted to release model "D" packer at 6897'.
12/15/2010	Filled well with 34 bbls. Rigged up wire line. Made up 1-7/8" chemical cutter and ran in well to 6865'. Cut tubing. Attempted to work tubing free. Made up 1-7/8" chemical cutter and ran in well to 6870'. Cut tubing (cutter became stuck). Attempted to work loose and pulled out of rope socket. Rehead wire line and made up 1-1/2" JDC pulling tool. Ran in well to top of fish and attempted to engage fish. Pulled out of well (no recovery). Ran in well to top of fish (fish dropped down well). Rigged out wire line and pulled out of well.
12/16/2010	Filled well with 9 bbls. Pulled out of well and laid down production equipment. Made up 5-3/4" wash pipe with 7-3/8" shoe. Ran in well to top of fish at 9876'. Washed over stub and reversed circulated clean. Pulled out of well to kill string at 3000'.
12/17/2010	Filled well with 9 bbls. Pulled out of well and laid down wash pipe. Made up overshot with 1-11/16" grapple and bumper sub. Ran in well to 6883' and worked over fish. Pulled out of well and laid down tools and fish (recovered sinker bars and chemical cutter.) Made up wash pipe and ran in well to 4000'.
12/20/2010	Filled well with 7 bbls. Ran in well to top of stub at 6874' and tagged hard fill at 6877'. Nippled up PGSR. Picked up power swivel. Cleaned out fill to packer at 6887' and reverse circulated clean. Rigged down power swivel. Nippled down PGSR. Pulled out of well to kill string at 3000'.
12/21/2010	Filled well with 7 bbls. Pulled out of well and laid down wash pipe. Made up 7-1/2" overshot with 2.875 grapple. Ran in well to top of fish at 6873. Engaged fish and attempted to release from model "D" packer at 6878'. Pulled out of well (no recovery). Ran in well with kill string to 3750'.
12/27/2010	Filled well with 88 bbls. Pulled out of well with kill string. Made up 9-5/8" casing scraper and ran in well to 6874'. Reverse circulated clean. Pulled out of well to kill string at 3100'.
12/28/2010	Filled well with 4 bbls. Pulled out of well and laid down casing scraper. Made up overshot guide, a 4' 2-7/8" pup jt, 9-5/8" packer, a 6' 2-7/8" pup jt., and on/off tool. Ran in well to 6873' and worked over stub. Rigged up wire line and ran in well with 2" gauge tool (no restrictions) . Attempted to set packer - would not set. Pulled out of well to kill string at 3100'.
12/29/2010	Filled well with 7 bbls. Pulled out of well to inspect the top half of on/off tool for marks. (Tool appeared to be cut incorrectly which prevented the on/off tool from working correctly.) Ran back in to 3100' with kill string.
12/30/2010	Filled well with 6 bbls. Pulled out of well. Made up top half of on/off tool and ran in well. Engaged on/off tool and tested annulus to 500 psi (bled down to 0 in 10 minutes). Rigged up wire line and made up 2" blind box. Ran in well to 6900' with no restrictions. Made up PXN plug and ran in well (plug would not set).
1/3/2011	Filled well with 10 bbls. Rigged up wire line. Made up PXN plug and ran in well to 6842'. Attempted to set plug in no/go (plug would not set). Pulled out of well and inspected plug. Ran in well to 6800'. Pumped down tubing. Ran in to 6848' and set plug. Ran in well and set prong. Tested down tubing to 1000 psi for twenty minutes (good). Rigged out wire line. Released from on/off tool. Pulled out of well to 3000' kill string.
1/4/2011	Pulled out of well with kill string. Nippled up shooting flange and rigged up Schlumberger wire line. Made up USIT tools. Ran USIT log from 6850' to surface. Rigged down loggers. Ran in well to 3000'.
1/5/2011	Pulled out of well and made up Baker full bore packer. Ran in well to 1050' and tested to 500 psi from 1050' to 6850' for twenty minutes (good). Tested from 1050' to surface pumping away at 0.75 bpm and 300 psi with full circulation thru surface pipe. Pulled to 930' and tested to surface with 1000 psi for twenty minutes (good). Pulled out of well and laid down packer. Made up BP and ran in well to 1070'. Set BP and sanded to 1050'. Pulled out of well and made up full bore packer. Ran in well and tagged sand at 1057'.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Porter 50 A
A.P.I. No. 03722737

Field: Aliso Canyon
Surface Location: Sec 27 T 3N R 16W S.B.B.M.
Title:

(President, Secretary, or Agent)

Date: 2/18/2011

Signature:

~~(Person Submitting Report)~~

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

County: Los Angeles

Telephone Number:

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Start Date	Ops: DOGGR Rpt
1/6/2011	Set packer at 930' and pumped down tubing at 1 bpm with 500 psi. Rigged up HES cementers. Pumped at 1 bpm and 500 psi. Mixed and pumped 10 bbls mud flush followed by 66 bbls class "G" cement at 1 bpm and 300 psi with full returns. Final pressure of 450 psi and 6 bbls cement returns to surface. Rigged down cementers.
1/7/2011	Released BP and pulled out of well. Laid down packer. Made up bit, scraper, bumper sub, (2) 4-3/4" drill collars. Ran in well to 965' and tagged cement. Nippled up PGSR and rigged up power swivel. Cleaned out cement to 1054'. Tested casing to 500 psi for twenty minutes (good). Cleaned out sand to 1065' and circulated clean. Laid down power swivel and nippled down PGSR. Pulled out of well laying down drill collars, scraper, and bit. Made up retrieving tool and ran in well to 1065'.
1/10/2011	Released BP at 1070'. Pulled out of well and laid down BP. Changed pipe rams to 7". Rigged up casing tongs. Made up WEA 9-5/8" x 7" SLP packer. Measured and picked up 7" 23# LT&C casing - monitored thread make-up and applied seal lube while running in well to 3533'.
1/11/2011	Measured and picked up 7" casing to 5060'. Rigged up and pumped 140 bbls KCL packer fluid down annulus. Set packer at 5060'. Tested annulus to 500 psi for twenty minutes. Rigged out casing tongs. Rigged out casing equipment and working floor.
1/12/2011	Nippled down class III BOP. Nippled down tubing head and replaced primary seals. Nippled up 9-5/8" x 7" innerstring spool. Landed 7" casing in slips with 43,000# compression (double studded seal flange has no seals installed). Tested all seals to 5000 psi for twenty minutes (good). Nippled up class III BOP.
1/13/2011	Rigged up working floor and tubing equipment. Changed pipe rams to 2-7/8". Ran in well with tubing to 6850'.
1/14/2011	Rigged up Tuboscope pipe inspection unit. Pulled out of well thru scan unit. Scan results were 184 yellow, 34 blue, 0 green, and 1 red. Rigged out scan unit. Ran in well with kill string to 2200'.
1/18/2011	Rig stand by.
1/21/2011	Pulled out of well with kill string. Nippled down BOP. Installed tubing head and energized seals. Tested all connections to 5000 psi for twenty minutes. Nippled up class III BOP. Rigged up working floor and tubing equipment and ran in well with kill string to 1900'.
1/24/2011	Pulled out of well with kill string. Made up top half on/off tool, 1 jt 2-7/8" tubing, sliding sleeve, 1 jt tubing, gas lift mandrel. Ran in well to 6848' and engaged on/off tool. Respaced well and landed tubing in tubing hanger with 14,000 # compression. Tested annulus to 500 psi for twenty minutes. Nippled down class III BOP. Nippled up production tree.
1/25/2011	Rigged down and moved out workover rig.

FEB 18 2011

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/17/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
3/4/2015	Held safety meeting with crews open well 0 psi tubing and casing. Continued niple up BOP rigged up tester . Test blind rams to 300 low and 5000 high for twenty minutes. (good) Tested pipe rams to 300 low and 5000 high for twenty minutes. (good) Tested Hydrl to 300 low and 3600 high for twenty minutes. (good) Tested choke manifold and all control valves to 300 low and 5000 high for twenty minutes. (good E Blevins DOGGR inspected and approved BOP) Rigged up tubing equipment backed out hold down studs ublanded tubing at 42,000# released from On/Off tool pulled out of well laying down 144 joints 2-7/8" tubing to kill string at 2342' secured well.
3/5/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 3 bbls. Pulled out of well laying down 2-7/8" tubing.layed down top half on/off tool. Measured and picked up 7" casing scraper measured and picked up 2-7/8" TKC work string to 4200' secured well.
3/6/2015	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls to fill. Measured and picked up 2-7/8 TKC tubing to 5016 with casing scraper. Pulled out of well layed down scraper made up WEA 7" test packer ran in well to 5016'. Set packer filled annulus tested to 1000 psi for twenty minutes (good) Released packer secured well.
3/9/2015	Held safety meeting with crews open well 0 psi tubing and casing well standing full. Pulled out of well layed down test packer. Rigged down working floor nippled down BOP nippled down tubing head. Picked up 1 joint 3-1/2" drilll pipe and 7" spear un landed 7" inner string remove packoff and slips landed on packer. Nippled up BOP speared casing changed pipe rams to 7' Secured well.
3/10/2015	Held safety meeting with crews open well o psi tubing casing well standing full. Un set 9-5/7" X 7" packer rigged up casing tongs pulled out of well laying down and loading out 7" casing to 3000' secured well.
3/11/2015	Held safety meeting with crews open well 0 psi tubing and casing well standing full. Pulled out of well laying down and loading out 7" casing (Layed down 123 joint and WEA packer) Rigged out casing tongs changed pipe rams to 2-7/8" . Made up 20' 7" shoe ran in well to 2000 kill string secured well.
3/12/2015	Held safety meeting with crew. Zero psi on well. Continue running in the hole with a 7" wash pipe shoe to 4,967'. Conducted BOP drill with So Cal Gas employees. Measure and pick up 59 joints of 2-7/8" P110 KC tubing. Tag fill at 6,812'. ASX-1 Packer COE at 6,859'. Install circulating head. Reverse circulate sand from 6,812' to the top of the packer at 6,857'. Reverse circulate two tubing volumes. Pull 67 stands. Wash Pipe shoe at 2,564'. Secured well. Shut job down.
3/13/2015	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls to fill.Pulled out of well layed down shoe made up top half On/Off tool and perfed sub (while making up tools tong die fell down hole) ran in well with 2-7/8" TKC tubing to kill string at 2100' secured well.
3/16/2015	Held safety meeting with crew. Zero psi on well. Run in hole with 71 stands of 2-7/8"P-110 KC tubing to 6,595'. Rigged up to circulate down the tubing. Pumped a total of 60 bbls of 3% KCL at 4 bpm at 500 psi attempting to wash sand off the PXN set in the profile of the on/off tool. Lowered tubing. Latched onto the on/off tool. Pressure increased to 600 psi at 1 bpm. HSM with Carbon wireline. Run in the hoe with the pulling tool. Recovered the prong from the PXN plug at 6,848'. Made up 2-1/2" GS Pulling Tool. Unable to get past 5,801'. Pull out of the hole. Ran in the hole with a 2.205" gauge ring to the top of the plug at 6,848'. Pull out of the hole. Ran in the hole with a slickline bailer. Tagged the plug body at 6,848'. Worked bailer several times. Pulled out of the hole with the bailer. No recovery. Rig down slickline unit. Rig up swivel. Released on/off tool. Picked up 1-1/2" to 6,847'. Closed well in Shut down.
3/17/2015	Held safety meeting with crews open well 0 psi tubing and casing circulated well with 50 bbls. Latched on/off tool rigged up Carbon wire line made up "GS" pulling tool ran in plug at 6865' latched plug jarred on plug sheared off. Rigged up seperater uloaded 28 bbls ran in well with slick line latched plug bleed down 750 psi off tubing plug came free. Rigged out wire line release from on/off tool secured well.

RESOURCES AGENCY OF CALIFORNIA
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DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/17/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
3/18/2015	Held safety meeting with crews open well 800 psi tubing and 450 psi tubing. Rigged up and circ circulated out gas pumped 50 bbls hi vis polymer pill circulated well with 200 bbls. Released HES packer at 6876' pulled out of well (Slip dragging past casing collars) Pulled to 6408' hung up in casing collar could not knock loose released from on/off tool pulled to kill string at 3177 secured well.
3/19/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 75 bbls. Pulled out of well measured and picked up (4) 4-3/4" drill collars with bumper sub and top half on/off tool. Ran in well to 6408' engaged on/off toll and attempted to work packer free. Re-set packer secured well.
3/20/2015	Held safety meeting with crews open well 0 psi tubing and casing filled tubing with 9 bbls. Rigged up WEA wire line with full lubricator. Made up 1-7/8" chemical cutter ran in well to 6403' (Could not pass thru no/go) Pulled out of well made up 1-3/4" cutter ran in well to 6403' stopped could not pass thru no/go. Pulled out of well rigged out wire line released from on/off tool pulled out of well to kill string at 3228' secured well.
3/23/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 36 bbls. Pulled out of well layed down bumper sub and top half on/off tool. Made up7-5/8" mill shoe with 12' extensions, bumper sub, jars, (4) $-3/4" drill collars ran in well to 2692' stopped could not work down hole. Pulled out of well layed down shoe bumper sub and jars. Made up 9-5/8" casing scraper ran in well to 2692' with no restriction secured well.
3/24/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 30 bbls. Ran in well with scraper to top of at 6403' Pulled out of well layed down scraper picked up 9-5/8 positive for 43.5# ran in well to top of 47# casing at 4325. Pulled out of well layed down scraper made up 1.82 8-5/8" mill shoe jars and drill collars ran in well 3310' secured well.
3/25/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with filled well with 30 bbls. Ran in well with 8=5/8" mill shoe to 47" casing at 4318' stopped could m=not work thru. Pulled out of well layed down 8-5/8" shoe. Made up 8-1/2" shoe, (1) joint 8-1/8" wash pipe, jars, (4) 4-3/4" drill collars ran in well to 6405'. Made up PGSR and picked up power swivel secured well.
3/26/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 35 bbls. Picked up power swivel started rotating tagged fish at 6410' milled down to 6411.5 reversed circulated well clean. Nippled down PGSR and power swivel. Pulled out of well layed down wash pipe and mill show assembly. Made up top half on/off toll, bumper sub, jars and (4) 4-3/4 drill collars ran in well to 3350' secured well.
3/27/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 30 bbls.Ran in well to 6405 engaged fish attempted to release packer jarred at 20k over string weight. Started dragging up hole (hanging up in casing collars) Pulled out of well layed down packer assembly. Made up 9-5/8" all weight casing scraper ran in well to kill string at 3180' secured well.
3/30/2015	Held safety meeting with crews open we;; 0 psi tubing and casing filled with 20 bbls. Ran in well with 9-5/8" casing scraper to top of stub at 6873'. Rigged up reversed circulated with 100 bbls. pulled out of well layed down scraper. Picked up WEA 9-5/8" RBP ran in well to 6871' set RBP rigged up and tested annulus to 500 psi for twenty minutes (good) pulled to 6818' dump 3 cu. ft. sand displaced with 30 bbls pulled to 6727' secured well.
3/31/2015	Held safety meeting with crews open well 0 psi tubing and casing well standing full. Rigged out power swivel laoded out fishing tools. Pulled out of well layed down retrieving head. Nippled up shooting flange secured well.
4/1/2015	Held safety meeting with crews open well 0 psi tubing and casing well standing full. Rigged up Schlumberger wire line made up USIT/CBL combo ran in well to 6860' ran USIT/CBL combo high resolution to surface. Rigged out loggers secured well.

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HISTORY OF OIL OR GAS WELL

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Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
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Start Date	Ops this Report (DOGGR)
4/2/2015	Held safety meeting with crew. Zero psi on well. Pick up 9-5/8" test packer with unloader. run in hole to 520'. Tested packer to 1,000 psi for 5 minutes. Good test. Release packer. Run in hole to 6,476'. Pick up King swivel and safety valve. Set packer at 6,500'. Test down tubing from 6,500' to 6,871' at 1,000 psi. Lost 80 psi in 20 minutes. Tested to surface at 1,000 psi. Good test. Lowered packer. Tagged sand at 6,862.5'. Set packer at 6,855'. Tested down tubing from 6,855 to 6,871' at 1,000 psi. Good test. Moved packer to 6,823'. Tested down from 6,823' to 6,871' at 1,000 psi. Tested good. Moved packer to 6,760'. Tested down from 6,760' to 6,871' at 1,000 psi. Tested good. Moved packer to 6,697'. Tested down from 6,697' to 6,871' at 1,000 psi. Good test. Moved packer to 6,633' Tested down from 6,633' to 6.871' at 1,000 psi. Good test. Moved packer to 6,570'. Tested down from 6,570' to 6,871' at 1,000 psi. Good test.Tested up from 6,570' to surface at 1,000 psi. Lost 20 psi. Moved packer down to 6,605'. All tests charted for 20 minutes. Secured well. Shut down.
4/6/2015	Held safety meeting with crew. Zero psi on well. Open well. Pull and set test packer at 6,532'. Test down the tubing from 6,532' to 6,871' at 1,000 psi. Held on chart for 20 minutes. Good test. Pull packer to 6,500'. Test down tubing from 6,500' to 6.871' to 1,000 psi recorded on a test chart. Good test. Pull packer to 6,000'. Tested from 6,000' to surface at 1,300 psi. Held for 3 minutes then dropped to 240 psi in 20 minutes. Moved packer down to 6,005'. Tested down the tubing from 6,005' to 6,871' at 1,000 psi. Tested good. Tested up from 6,005' to surface at 1,000 psi. Bled to 550 psi in 5 minutes. Pull packer to 5,000'. Tested up from 5,000' to surface at 750 psi. Dropped to 400 psi in 5 minutes. Pull packer to 4,200' and test 4,200' to surface at 750 psi. Bled to 400 in 5 minutes. Pull packer to 3,500'. Tested up from 3.500' to surface at 750 psi. Bled to 400 psi in 5 minutes. Pressure on 13-3/8" by 9-5/8" annulus went from 47 psi prior to the test to 475 psi during the test. Pulled packer to 934'. Tested up from 934' to surface at 3,000 psi for 20 minutes. Good test.Lowered packer to 997'. Tested from 997' to surface at 1,000 psi for 5 minutes. Good test. Lowered packer to 1,033'. Tested from 1,033 to surface at 450 psi for 5 minutes. Pressure dropped to 150 psi. raised packer to 1,018'. Tested from 1,018' to surface at 450 psi for 5 minutes. Bled to 150 psi. Hole in 9-5/8" casing is between 1,018' and 997'. All tests recorded on pressure charts.
4/7/2015	Held safety meeting. Zero psi on tubing and 9-5/8" casing. 129 psi on the 13-3/8 x 9-5/8" annulus. Bled off. Run in hole with 20 stands of tubing. Set packer at 1,018'. Test from 1,018' to 6,871' at 1,000 psi for 20 minutes. Good test. Attempt injection test pumping down the 9-5/8" annulus wit the 13-3/8" surface pipe casing valve open. Pressured 9-5/8" annulus to 400 psi. Pressure would drop quickly to 300 psi but could not establish any injection rate. Release packer. Pulled out of the hole with the packer. Made up RBP retrieving tool. Rih to 2,529'. Secured well. Shut down.
4/7/2015	Held safety meeting with crew.
4/8/2015	Held safety meeting with crews work as directed.
4/9/2015	Held safety meeting with crews work as directed.
4/10/2015	Held safety meeting with crews work as directed.
4/13/2015	Held safety meeting with crew. Zero psi on well. Run in the hole with 106 stands of 2-7/8" P110 KC tubing to 6.708'. Installed PGSR and pick up 8 joints of work string, swivel and safety valve. Tagged sand at 6,862'. Reverse circulate sand to 6,871'. Release bridge plug and let well equalize. Lay down swivel joint. Remove PGSR. Pull out of the hole. Lay bridge plug and retrieving tool down. Pick up 8-1/8" x 8-3/8" flat bottom rotary shoe, one joint of 8-1/8" wash pipe, drive bushing, Daily jars and four 4-3/4" drill collars. Ran in hole with 50 stands of 2-7/8" P110 KC tubing to 3,163'. Secured well. Shut down.

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HISTORY OF OIL OR GAS WELL

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Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/17/2017 (Month, day, year)
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4/14/2015	Held safety meeting with crew. Zero psi on well.Continue running in the hole with 56 stands of 2-7/8" P110 KC tubing. Tag at 6,870' (17' above the packer). Strip on PGSR. Rig up 3.5 power swivel. Rotated thru tight spot at 6,870'. Tagged the top of the Model D packer at 6,886'. Reverse circulate at 3 bpm at 500 psi while milling on packer with 8-3/8" x 8-1/8" flat bottom rotary shoe. Milled on junk (two slips from HES packer) for five hours making four inches. Pulled to 6,886' and reverse circulated two tubing volumes (80 bbls). Pulled above tight spot at 6,870'. Secured well.
4/15/2015	Held safety meeting with crew. Zero psi on well. Continue milling Model D packer with rotary shoe from 6,886.34 to 6.887.85'. Made 18". Total milled 1.85' (22"). Reverse circulate 80 bbls. Rig down power swivel. Pull out of hole with 18 stands. Closed well in with shoe at 5,749'. Lost 70 bbls while milling. Secured well.
4/16/2015	Held safety meeting with crew. Zero psi on tubing 12 psi on annulus. Bled well down. Fill well with 3 bbls of 3% KCL. Pull out of well from 5,749'. The joint of 8-1/8" wash pipe had deep external grooves cut into the body. Laid wash pipe and shoe down. Ordered out new wash pipe and drive bushing. Made up new 8-3/8" x 8-1/8" flat bottom shoe on one joint of 8-1/8" wash pipe and four 4-3/4" drill collars and jars. Ran in the hole to 6,870'. Secured well.
4/17/2015	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls to fill. Milled from 6887 to 6888 Lost circulation stuck jarred free at 95,000. Rigged up and reversed circulated layed down power swivel pulled to 6829 secured well.
4/20/2015	Held safety meeting with crews open well 0 psi tubing and casing circulated well with 50 bbls. Picked up power swivel Milled on packer at 6888' work free packer fell circulated well clean. Layed down power swivel and PGSR. Pulled out of well to 5460 circulated out gas bubble pulled to kill string at 3350' secured well.
4/21/2015	Held safety meeting with crews open well 0 psi tubionmg and casing filled well with 2 bbls.Pulled out of well layed down wash pipe and shoe. Made up 5-3/4" over shot with 2.875 grapple, bumper sub, jars, (4) 4-3/4" drill collars and instensifer. Ran in well to fish at 6913' engaged fish jarred free dragging up well pulled to kill string at 3322' secured well
4/22/2015	Held safety meeting with crews open well 0 psi tubing and casing fill well with 4 bbls. Pulled out of well layed down fish tools (recovered Bake model "D" packer) Made up all weight casing scraper ran in well to 6383 tagged pushed down hole to 6848' pushed to liner top at 6934'. Rigged up and reversed circulated with 80 bbls. Pulled out of well to kill string at 3250' secured well.
4/23/2015	Held safety meeting with crews open well 0 psi filled well with 3 bbls. Pulled out of well with kill string layed down casing scraper. Nippled up shooting flange rigged up Schlumberger wire line made up USIT/CBL. Ran in well to 6933' ran logs to 5533'. Rigged out loggers made up mule shoe ran in well to 4441' secured well.
4/24/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 3 bbls. Ran in well with mule shoe to liner top at 6934'. Rigged up and circulated attempted to clean out junk rigged up and reversed circulated plug tubing. Circulated down tubing cleared plug circulated clean pulled out of well to kill string at 3300 secured well.
4/28/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 4 bbls. Pulled out of well with kill string. (Found mule shoe braded over) Ran in well to 3170' kill string wait on tools work as directed secured well.
4/28/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 2 b bbls. Pulled out of well made up 4-3/4" tapered mill, bit sub, 8' 3-1/2" lead collar, 8-3/8" stabilizer, (2) 4-3/4" drill collars. Ran in well to 6934' nippled up PGSR picked up power swivel. Milled from 6934 to 6946' circulated clean layed down power swivel pulled 30' secured well.
4/29/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 3 bbls. Ran in well to 6932' picked up power swivel reamed out tight spot from 6932' to 6945' circulated well clean. Layed down power swivel pulled out of well layed diown stabilizer and tapered mill. Made up 3-1/2 lead collar and 4-3/4' concave junk mill ran in well to 6932' worked in liner ran in well tagged at 6975' pulled to 6910' secured well.
4/30/2015	Held safety meeting with crews open well filled well with 4 bbls.Ran in well to 5900' picked up power swivel cleaned out from 6930' to 6932'. Cleaned out 5-1/2" liner from 6932 to 7207' reversed circulated clean. Pulled out to 6930' reamed thru from 6930' to 6932' clayed down power swivel. Pulled out of well to 3890' secured well.

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Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
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Start Date	Ops this Report (DOGGR)
5/1/2015	Held safety meeting with crews open well 0 psi tubing and casing filled well with 3 bbls. pulled out of well layed mill. Made up mule shoe ran in well to to liner top at 6930 secured well.
5/2/2015	Held safety meeting with crew. Service rig and equipment. Work as directed.
5/4/2015	Held safety meeting with crews open well 0 psi tubing amd casing filled well with 7 bbls. Ran in well to 7209' rigged up and reversed circulated with 90 bbls. Pulled to 6783' rig down for repairs hydraulic pump and fan down.
5/5/2015	Held safety meeting with crews work as directed
5/6/2015	Held safety meeting with crews work as directed.
5/7/2015	Held safety meeting with crews work as directed.
5/11/2015	Held safety meeting with crews work as directed.
5/12/2015	Held safety meeting withy crews open well 0 psi tubing and casing filled well with 10 b bls. Ran in well to 7209' rigged up and reversed cirdulated with 100 bbls, Pulled to liner top at 6900' spot cement bins ready for cement job. Secured well work as directed.
5/13/2015	Held safety meeting with crews open well 0 psi tubing qand casing. Ran in well to 7206' rigged up HES cementers with tubing at 7206 mixed and pumped 8 bbls classs "G" cement with additives displaced with 39 bbls. Pulled to 6921 rigged up and reversed circulated with 80 bbls (,5 cu.ft. cement returns to surface). Rigged up cementer mixed and pumped 9 bbls class "G" cement with additives displaced with 37 bbls pulled to 6988 rigged up and reversed circulated with 80 bbls. Rigged out cementers pulled to 6655 secured well.
5/14/2015	Held safety meeting with crews open well 0 psi tubing and casing. Ran in well tagged top of cement at 6823' (C Knight DOGGR witnessed and approved tag) Rigged up HES cementers with tubing tail at 6823' mixed and pumped 27 bbls class "G" cement with additives displaced with 37 bbls. Pulled to 6466' rigged up and reversed circulated with 80 bbls with 1 bbls cement returns to surface. Rigged up HES cementers with tubing tail at 6466' mixed and pumped 27 bbls class "G: cement displaced with 35' bbls rigged out cementers pulled to 6023' rigged up and reversed circulated with a trace of cement returns to surface. Layed down excess tubing pulled to 5400' secured well.
5/15/2015	Held safety meeting with crews open well 0 psi tubing and casing. Ran in well to 6084' tagged cement (C Knight DOGGR witnessed and approved tag and mudding of well.) Rigged up and pumped 165 bbls 9.6 ppg abandonment mud from 6084' to 3900'. Pulled out of well laying down excess tubing to 3900'. Rigged up and reverse circulated with 70 bbls secured well.
5/18/2015	Held safety meeting with crews open well 0 psi tubing and casing. Ran in werll to 3900' rigged up HES cementers tested lines to 2000 psi mixed and pumped 30 bblss class "G" cement with additives displaced with 19 bbls. Pulled to 3450' rigged up and reversed circulated with 60 bbls (trace of cement returns to surface estimated top of cement at 3510') Layed down excess tubing secured wll.
5/19/2015	Held safety meeting with crews open well 0 psi tubing and casing. Ran in well to 3538' tagged top of cement (C Knight DOGGR witnessed and approved tag and mudding of hole) Rigged and pumpe 61 bbls 9.7 abandonment mud with top at 2740' displaced with 14 bbls. Pulled out of well to 2740' rigged up and reversed circualted with 60 bbls. Pulled out of well rigged up Tiger wire line made up 4' gun with 4 spf. Ran in we;; to 2720' correlated and shot hole from 2720' to 2722'. Rigged out wire line filled well closed blind rams pumped in at .4 bpm at 850 psi. Made up WEA test packer ran in well to 2710' set packer tested below packer to 900 psi at ,5 bpm pressured up 0 bpm. Released packer secured well.
5/20/2015	Held safety meeting with crews open well 0 psi tubing. pulled out of well layed down packer. Made up 9-5/8" cement retainer ran in well to COE 2710' . Rigged up and set retainer filled and tested annulus to 500 psi for ten minutes bleed down and unstabbed forenm retainer. Stabbed in retainer secured well.

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5/21/2015	Held safety meeting with crews open well 0 psi tubing and casing . Stripped on PGSR stabed in retainer rigged up HES cementers pumped in at .9 bpm 400 psi unstabbed from retainer. Mixed and pumped 14 bbls stabed in retainer squeezed 7 bbls below retainer (Final squeeze 80 psi) Unstabbed from retainer pumped 11bbls above retainer (Estimated top of cement at 2449 C Knight DOGGR witness and approved squeeze') Pulled to 2400'. Rigged up and reversed circulated with 60 bbls (trace of cement returns to surface) Rigged out cementers pulled out of well laye3d down star guide. Ran in well to 2300' secured well.
5/26/2015	Held safety meeting with crews open well 0 psi tubing and casing. Ran in well to 2545' tagged top of cement (C Knight witnessed and approved tag and mudding of well). Rigged up and pumped 47 bbls 9.7 PPG abandonment mud from 2545' to 1900' displaced with 9 bbls. Pulled out of well laying down excess tubing to 1900' rigged up and reversed circulated with 27 bbls. Pulled out of well made up WEA 9-5/8" packer ran in well to 1696' set packer tested annulus to 500 psi for ten minutes (good). Rigged up Tiger wire line unit made up swab string with lubricator swabbed down to 730' (Wire line hit lubricator and dropped tools) Rehead wire line made up sinker bars ran in well to 2200' pulled out and made up swab tool. Swab bed well down to 1355 recovered 8 bbls. Secured well.
5/27/2015	Held safety meeting with crews open well 0 psi tubing and casing . Rigged up Tiger wire line made up swab string ran in well tagged fluid at 1350' swab down to 1575 (recovered 1/2 bbl.) Made up 2" X 20 guns with 4 spf ran in well to 1730' correlated and shot from 1750' to 1730' . Pulled out of well made up swab string ran in well tagged fluid at 1464' swabbed and recovered 2 gallons wait 1 hour and attemented to swab fluid level at 1556'. Wait 2 hours ran in well ran in well tagged fluid level at 1572' no recovery. wait 2 hour and ran in well to 1672 with no fluid recovery secured well.
5/28/2015	Held safety meeting with crews open well 0 psi. Rigged up Tiger wire line ran in well with swab string to 1674'(no fluid entry) Rigged out wire line released packer and move to 1667'. Rigged up wire line made up swab string swabbed down well to 1522' made up 20' guns with (4) spf ran in well to 1800' correlated and shot holes from 1700' to 1680' layed down guns. Made up swab string ran in well tagged fluid at 1400' swabbed down to 1570'. Wait (2) houras ran in well to 1560 swab down to 1600' secured well.
5/29/2015	Held safety meeting with crews open well 0 psi tubing and casing. Rigged up Tiger wire line ran in well with swab string tagged fluid at 1535' (25' fluid entry) Rigged down wire line released packer move to 1601' set packer tested annulus to 500 psi. Rigged up Tiger wire line swabbed down well to 1500' made up 20 strip guns ran in well to 1613' correlated and shot 4 spf from 1633' to 1613'. Made up swab string ran in well tagged fluids at 1480 pulled fluid from 1568' secured well.
6/1/2015	Held safety meeting with crews open well o psi tubing and casing. Rigged up Tiger wire line unit made up swab string ran in well tagged fluid at 948' (452' fluid entry) swabbed down to 1600' recovered 3.4 bbls.. Wait one hour ran in well tagged fluid at 1562' (38' fluid entry) Swabbed dowen to 1600 with no recovery.secured well and monitor.
6/2/2015	Held safety meeting with crews open well 0 psi tubing and casing. Rigged up Tiger wire line made up swab string ran in well to 1354' tagged fluid (175" fluid entry 1 bbl.) Rigged out wireline unit released packer pulled out of well layed down pacler. Made up mule shoe ran in well to 1900 rigged up and reversed circulated with 60 bbls. Pumped out cement bins ready for cement job secured well.
6/3/2015	Held safety meeting with crews open well 0 psi filled well with 9 bbls. Rigged up HES cementers with tubing tail at 1800' mixed and pumped 22.3 bbls Type III cement displaced with 8 bbls water. Pulled to 1600' rigged up and reversed with 25 bbls (trace of cement return.) Rigged up cementers with tubing tail at 1600' mixed and pumped 24 bbls type III cement displaced with 7 b bbls water (estimated top of cement at 1280') Pulled to 1377' rigged up and reversed circulated with 22 bbls with trace of cement returns. Rigged out cementers layed down excess tubing secured well.
6/4/2015	Held safety meeting with crews open well 0 psi tubing and casing. Ran in well tro 1392' tagged top of cement (K Gustafson witnessed and approve tag.) Pulled out of well nippled up shooting flange rigged up Tiger wire line made up 4" gun. Ran in well to 1380 correlated and shot (3) 1/2" spf from 1382' to 1380' rigged out wire line. Made up WEA test paqcker ran in well to 1270 set packer fill annulus tested below packer 1.5 bpm at 350 psi. Released packer pulled out of well alyed down packer ran in well with kill string to 500' secured well.

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HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/17/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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6/5/2015	Held safety meeting with crews open well 0 psi tubing and casing. Made up WEA 9-5/8" cement retainer ran in well to 1370' set retainer. Fi;;ed and tested annulus to 500 psi blank off tool test tubi ng to 1000 psi. Injection rate at 2.2 BPM 300 psi ready for cement job seccured well.
6/8/2015	Held safety meeting with crews open well 0 psi tubing and casing. Installed PGSR rubber rigged up HES cementers pump 2 bbls ahead test lines to 2500 psi. Stabbed in retainer at 1370' injected at 1.6 bpm 150 psi. Unstabbed from retainer mix and pump 7 bbls class "G" cement witrh additives stab ikn retainer squeeze 9 bbls below (final sqeeze pressure 1069 psi(unstab from retainer pumped 27 bbls cement above retainer dispaced with 5 bbls (C. Knight DOGGR witness squeeze). Pulled to 1030' rigged up and reversed with 30 bbls (1.5 bbls returns) Rigged out cementers pulled out of well layed down stab in guide ran in well to 700' secured well.
6/9/2015	Held safety meeting with crews open well 0 psi tubing. Ran in well to 1032' tagged top of cement (C Knight DOGGR witnessed and approved tag). Pulled out of well made up WEA 9-5/8" casing cutter ran in well to 1015'.nippled up PGSR rigged up power swivel. Cut 9-5/8" casing at 1015'. Pulled out of well layed down power swivel made up WEA 9-5/8" packer. Ran in well o 990' set packer test annulus to 500 psi. Atttempted pump in cut to 500 psi (Bleed down to 380 in 10 minutes no break down) Released packer pulled out of well layed down packer ran in well to 300' secured well.
6/10/2015	Held safety meeting with crews open well 0 psi tubing and casing. Pulled out of well rigged up Tiger wire line unit. Made up 4" gun ran in well correlated and shot (4) 1/2" hpf form 1026' to 1028' rigged out wire line. Made up WEA test packer ran in well to 1000' set packer filled and tested annulus to 500 psi for ten minutes. Pump down tubing to 380 psi (bleed down to 200 psi in ten minutes) Releassed packer pulled out of well layed down packer made up mule shoe ran in well to 1032' secured well.
6/11/2015	Held safety meeting with crews open well 0 psi tubing and casing. Rigged up HES cementers woth tubing tail at 1032' mixed and pumped 20.5 bbls class "G" cement with additives displaced with 3.5 bbls. Pulled to 756' rigged up and reversed circulated with 20 bbls (trace of cement returns. Rigged up Cementers with tubing tail at 756' mixed and pumped 20.5 bbls class "G" cement with additives displaced with 2 bbls. Pulled to 480 rigged up and reversed circulated with 15 bbls.(.50 bbls returns to surface) Rigged out cementers layed down excess tubing secured well cleaned location.
6/12/2015	Held safety meeting with crews open well 0 psi tubinmg and casing. Tagged top of cement at 494" (C. Knight DOGGR witnessed and approved tag) Pulled out of well made up WEA 9-5/8" casing cutter ran in well to 484' install PGSR and picked up power swivel. Cut 9-5/8" casing at 484' layed down power swivel. Pulled out of well layed down cutter. Made up WEA 9-5/8" test packer ran in well to 465' set packer filled and tested annulus to 500 psi. Pulled down tubing to 400 psi no break down (bleed down to 200 psi in ten minutes C.Gustafson DOGGR approved cementing to 250') Released packer pulled out of well layed down packer made up mule shoe ran in well to 494' secured well
6/15/2015	Held safety meeting with crews open well 0 psi tubing and casing. Rigged up HES cementers with tubing tail at 494' mixed and pumped 20.25 bbls class "G" cement with additives displaced with 1 bbl. Pulled to 200' rigged up and reversed circulated with 20 bbls (trace of cement returns) Rigged out cementers pulled out of well secured well.
6/16/2015	Held safety meeting with crews open well 0 psi tubing and casing. Tagged cement at 238' (C Knight DOGGR witnessed and approved tag) Pulled out of well made up WEA 9-5/8" casing cutter ran in well to 228' install PGSR picked up power swivel. Cut casing at 228' rigged out power swivel pulled out of well layed down cutter. Made up WEA 9-5/8" test packer ran in well to 213 set packer filled and tested annulus to 300 psi. Pumped down tubing to 400 psi with no break down (bleed down to 200 psi in ten minutes) Released packer pulled out of well. Rigged up Tiger wire line made up 4" gun ran in well to 234 correlated and shot (8) 1/2" hole from 236 'to 234' rigged out wire line. Made up test packer ran in well to 213' set packer filled and test annulus to 300 psi. Pumped in at 1 bpm 90 psi pumped 20 bbls with no fluid return to surface released packer secured well.

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HISTORY OF OIL OR GAS WELL

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Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/17/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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6/17/2015	Held safety meeting with crews open well 0 psi tubing and casing. Pulled out of well rigged down tubing equipment and working floor. Nippled down BOP and tubing head rigged up working floor and tubing equipment. Made up WEA 9-5/8" cement retainer ran in well to 213' set retainer filled annulus with 7 bbls. Estalished injection rate one bpm at 80 psi secured well prepared for cement job.
6/18/2015	Held safety meeting with crews open well 0 psi tubing and casing. Rigged up HES cementers stabbed in retainer mixed and pumped 12.5 bbls. class "G" cement with additives squeezed 9,69 bbls out holes at 236' (final squeeze pressure 2 psi plus 183 hydrostatic frac pressure 190 psi). Un Stabbed from retainer pumped 8.9 bbls (estimated top of cement 93') pulled out of well layed down stab in guide ran in well to 93' rigged up HES cementers pulled 15 bbls water. Mixed and pumped 7 bbls class "G" cement to surface pulled out of well topped off well with .5 bbls. Rigged out cementers cleaned cellar and mud pit rigged down for move to La Goleta.
6/19/2015	Held safety meeting with crews riggeed down hoist moved off location loaded out equipment clean location.
6/22/2015	Held safety meeting with crews loaded out equipment cleaned location.
2/10/2016	Held safety meeting with crew. Removed cover plate to the 9-5/8" casing stub. Found cement to surface in the annular spaces between the 20" conductor pipe and 13-3/8" surface pipe, between the 13-3/8" surface pipe and the 9-5/8" intermediate casing and the 9-5/8" casing had cement to surface on the inside. Filled each annulus and the 9-5/8" with water. There were no gas bubbles coming from the 20" x 13-3/8" annulus nor were there any gas bubbles coming from inside the 9-5/8" casing. The was a steady stream of gas bubbles coming from the 13-3/8" x 9-5/8" annulus. Located guy line anchors. Lay out rig containment. Spot rig. Raise mast. Put guy lines out. Obtain Hot Work Permit from Operations. Welded 13-5/8" 3M starter flange onto the 9-5/8" casing.
2/11/2016	Held safety meeting with crew. Set up plastic containments for 500 bbl tanks and mud pump. Spot two 500 bbl tanks and the mud pump. Set two roll off bins.
2/12/2016	Held safety meeting with crew. Offload BOP equipment. Nipple up 13-5/8" 3M double gate with 3-1/2" pipe rams and blind rams. Function tested pipe rams and blind rams. Installed riser spools above the BOP to build a flow line to a cutting bin. Rigged up the working platform. Obtain permission from the DOGGR, Jon Iverson, to begin cleaning out the cement. the BOPE was inspected by Kris Gustafson, DOGGR. The Gas Company pulled gas samples from the wellhead below the blind rams. Rigged up the 2.5 power swivel installing a crossover to 3- 1/2" IF. Measured and picked up a 6" drill collar with an 8-1/2" bit. Cleaned out cement from 24' to 28'. Pulled the bit above the blind rams. Secured the well with the blind rams.
2/13/2016	Held safety meeting with crew. Continued cleaning out cement with 8-1/2" bit on 6" drill collar from 28' to 31'. Rig engine shut down. Called mechanic. Cleared codes Down 1-1/2 hours. Continued cleaning out cement from 31' to 58'. Shaker screen motor quit working. Circulated clean. Secured the well. Shut down.
2/15/2016	Held safety meeting with crew. Zero psi on well. Repaired shaker screen motor (1-1/2 hrs down time). Cleaned out cement from 58' to 77'. Made connection with 4-3/4" drill collar. Installed PGSR rubber. Attempt to reverse circulate. Plugged bit.Stuck. Worked bit free at 80K. Attempted to pump down the tubing and clear the bit. Unsuccessful. Nipple down and strip off the PGSR bowl. Lay down the power swivel and one joint of 3-1/2" PH6 tubing. Laid down one 4-3/4" drill collar. Rig up rotary tongs. Break out 6" bit sub and 8-1/2" bit. Clean cement cuttings out of bit and bit sub.Lay down and load out 6" drill collar. Made 8-1/2" bit and bit sub on4-3/4" drill collar with rotary tongs. Rigged rotary tongs down. Lower 6" drill collar into the hole. Strip on PGSR bowl. Pick up power swivel and one joint of 3-1/2" tubing. Closed well in Shut down.
2/16/2016	Held safety meeting with crew. Zero psi on the tubing and casing. Continued cleaning cement out of the 9-5/8" 43.5# casing with an 8-1/2" bit making connections with 4-3/4" drill collars. Cleaned out from 77' to 170'. Circulated clean. Pulled off bottom. Closed the well in.

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2/17/2016	Held safety meeting with crew. Zero psi on tubing and casing. Continue cleaning out cement inside the 9-5/8" casing with an 8-1/2" bit from 170' to 202' making connections with 4-3/4" drill collars. Reverse circulated clean. Laid power swivel down. Weatherford installed a new wash pipe and packing. Pulled the bit to surface. Installed two 6-5/8" junk baskets above the bit. Ensign down 30 minutes for mechanics to update the ESM with new software. Ran back in the well. Cleaned out cement from 202' to 211'. Reverse circulate clean. Pull to 195'. Secured the well. Shut down. Plan forward - drill out cement retainer at 213' and continue cleaning out cement to 1,370'
2/18/2016	Held safety meeting with crew. Zero psi on tubing and casing. Clean out cement with 8-1/2" bit while reverse circulating from 211' to the top of the cement retainer at 213'. Circulate down the tubing. Drill out cement retainer from 213' to 216'. Pumped sawdust sweep to clean well bore. Laid power swivel down. Pulled six 4-3/4" drill collars, junk subs and 8-1/2" bit. Inspected 8-1/2" bit. Good. Closed the well in with the blind rams.
2/19/2016	Held safety meetinwith crew. Zero psi on tubing and casing. Rig up rotary tongs. Broke out junk baskets and laid junk baskets down. Baskets full of cement retainer debris. Make up 8-1/2" bit. Ran in the well with six 4-3/4" drill collars to 216'. Strip on PGSR circulating head. Spud and rotate on cement retainer debris. Made less than one foot in 8 hours. Pull and inspected bit. Good. Closed well in with the blind rams.
2/20/2016	Held safety meeting with crew. Nipple up PGSR circulating head. Ran in the hole with a 6-1/4" spade on six 4-3/4" drill collars. Picked up power swivel. Establish reverse circulation. Attempt to break up cement nose cone at 216' by beating down with 6-1/4" spade. Pulled out of the hole. Nipple down PGSR. Made up 8-1/8" reverse circulating junk basket. Ran in the hole. Strip on PGSR head. Dropped ball. Picked up the power swivel. Circulated down the tubing at 3-4 bpm. Rotated and attempted to core over cement retainer junk. Pressure increased to 500 psi. Stripped PGSR head off. Pulled out of the hole. No recovery. Rigged up the rotary tongs. Attempted to break tool joints on the junk basket assembly. Negative. Sent junk baskets to Weatherford. Ordered out bladed junk mill. Secured the well with the blind rams.
2/22/2016	Held safety meeting with the crew. Zero psi on the well. Ran in the well with an 8-1/2" bladed mill and six 4-3/4" drill collars. Strip on PGSR head. Establish circulation down the tubing. Mill cement retainer from 217' to 220'. Lay down power swivel joint. Strip off PGSR head. Stand back drill collars. Lay down junk baskets and the 8-1/2" bladed mill. Picked up the 8-1/2" bit. Ran in the well with the six drill collars. Strip on the PGSR head. Establish reverse circulation. Clean out cement from 220' to 223'. Slow rate of penetration. Laid down power swivel. Strip off PGSR head. Stand back 6 drill collars. Laid 8-1/2" bit down. Picked up 8-1/2" bladed mill and junk baskets. Strip on PGSR head. Ran in the well with 6 drill collars. Pick up joint of 3-1/2" PH6 tubing and power swivel. Cleaned out cement from 223' to 236'. Fell through cement at 234'. Circulated clean. Pulled bit to 211'. Closed pipe rams. Secured the well.
2/23/2016	Held safety meeting with crew. Zero psi on tubing and casing. Made a connection with a 4-3/4" drill collar (#7). Tagged cement at 238'. Clean out cement fro238' to 251' with the 8-1/2" bladed mill. Circulated clean. Laid power swivel down. Stripped the PGSR head off. Pulled seven 4-3/4" drill collars. Laid down two 6-5/8" junk baskets and the 8-1/2" mill. Ran in the hole with the 8-1/2" bit and seven 4-3/4" drill collars. Strip PGSR head on. Picked up the power swivel. Establish reverse circulation. Cleaned out cement from 251' to 260'. Pump gear box began smoking. Pulled high. Reverse circulated three tubing volumes. Laid down power swivel joint. Stand back two drill collars. Picked up the power swivel joint. Closed the well in. Cleaned pump tank.

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Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
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2/24/2016	Held safety meeting wit crew. Zero psi on tubing and casing. Rig up mud pump and fill with fresh water. Lay down one joint of 3-1/2" PH6 tubing. Hang power swivel. Strip off PGSR head. Pull out of the hole with 4-3/4" drill collars. Lay 8-1//2" bit down. Pick up 8-1/8" reverse circulating junk basket. Ran in the hole with seven 4-3/4" drill collars. Strip on PGSR head. Pick up one joint of 3-1/2" PH6 tubing and power swivel. Circulate down the tubing. Core cement from 260' to 261.5'. Laid power swivel down. Pulled out of the well with seven 4-3/4" drill collars. Laid reverse circulating junk basket down. Recovered two small pieces of metal and a cement core. Picked up the 8-1/2" bit. Ran in the hole with 4-3/4" drill collars. Stripped the PGSR head on. Picked up drill collar #8. Picked up the power swivel. Attempted to clean out the cement using the reverse circulation. Negative. Bit plugging. Circulate down the tubing. Cleaned out cement from 261.5' to 324'. Circulated clean. Pulled bit to 293'. Secured the well. Shut down.
2/25/2016	Held safety meeting with crew. Zero psi on tubing and casing. Circulate down the tubing. Cleaned out cement from 324' to 572'. Circulated clean. Pulled bit to 541'. Closed well in.
2/26/2016	Held safety meeting with crew. Zero psi on tubing and casing. Circulate down the tubing. Cleaned out cement from 572' to 758'. Circulated clean. Pulled bit to 726'. Closed well in.186' total for the day.
2/27/2016	Held safety meeting with crew. Zero psi on tubing and casing. Circulate down the tubing. Cleaned out cement from 758' to 944'. Circulated clean. Pulled bit to 912'. Closed well in.186' total for the day.
2/29/2016	Held safety meeting with crew. Zero psi on tubing and casing. Circulate down the tubing. Cleaned out cement from 944' to 1,100'. Power swivel began stalling out. Circulated clean. Pulled out of the well. Strip off PGSR head. Stand drill collars back. Broke bit and bit sub off. Closed well in with the blind rams.
3/1/2016	Held safety meeting with crew. Zero psi on tubing and casing. Ran in the hole with an 8-1/2" bit (#2), bit sub and eight 4-3/4" drill collars and 27 joints of 3-1/2" PH6 tubing. Stripped PGSR circulating head on. Picked up the power swivel. Changed well over with 100 bbls of fresh water at 1,100'. Establish reverse circulation. Cleaned out cement from 1,100' to 1,223'. Circulated clean. Closed well in.
3/2/2016	Held safety meeting with crew. Zero psi on tubing and casing. Establish reverse circulation. Clean out cement from 1,223' to 1.370' with an 8-1/2" bit. Circulated clean. Hang back power swivel. Pulled out of the well standing back 36 joints of 3-1/2" PH6 tubing and eight 4-3/4" drill collars. Rig down power swivel. Secure well with the blind rams.
3/3/2016	Held safety meeting with crew. Zero psi on the well. Load out 2.5 power swivel with stinger crane. Offload and rig up 3.5 power swivel. Picked up 9-5/8" 43.5# positive casing scraper and two wire brushes. Strip on PGSR circulating head. Rotate casing scraper and wire brushes in the hole making connections with the power swivel while reverse circulating to 952'. Closed well in with the pipe rams. Shut down.
3/4/2016	Held safety meeting with crew. Zero psi on tubing and casing. Rotate casing scraper and wire brushes in the hole making connections with the power swivel while reverse circulating from 952' to 1,370'. Change well over with 150 bbls of fresh water. Hang back power swivel. Pull out of the well with 43 joints of 3-1/2" PH6 tubing. Laid brushes and casing scraper down. Rigged up Schlumberger to log 9-5/8" casing. Ran USIT GR-CCL-CNL from 1,370' to the surface. Rigged SLB down. Haul off two cutting bins. Clean out pump tank with vacuum truck. Re-spot mud pump and new cutting bin. Replaced hydraulic hose on the power swivel. Secured the well. Shut down.
3/7/2016	Held safety meeting with crew. Zero psi on well. Wait on weather (lightening) to pass (one hour). Nipple up 13-5/8" DSA and 2' spool. Installed 13-5/8" pitcher nipple. Raised rig floor. Installed 8" flow line to possum belly. Rigged up tubing equipment. Picked up 9-5/8" section mill and one 4-3/4" drill collar. Picked up the power swivel. Tested the section mill inside the BOP stack at 6 bpm at 800 psi. Good test. Change of orders from the DOGGR. Hung power swivel back. Laid section mill and drill collar down. Closed well in. Secured the well.
3/28/2016	Held safety meeting with new crew. Review/sign JSA. 0 psi on well.(DOGGR BOP inspection- Chris Gustafson) P/U and RIH w/ 4-1/2" TCP guns (5HPF,72*, 38.8g,0.57") and 9-5/8" AS1-X packer on 3-1/2" PH6 tubing. Space out guns from 1220-1230' and 1315-1325'. Set packer @ 1122' CoE. Spot separator equipment. Close in and secure well.

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3/29/2016	Held safety meeting with crew. MIRU ONYX separator and tie into LP SCG line as per OPS instruction. MIRU SLB N2 pumper. Hold pre-job safety meeting with SCG engineering onsite. Pressure test surface lines to 737 psi with N2. Open TIW and apply 485 psi N2 cap (2500 ft3 N2) to 3-1/2" tubing. Drop SLB bar and fire TCP guns from 1220-30' and 1315-25'. Tubing pressure droppped to 405 psi and stabilized for 30 mins. RDMO N2 pumper. Bleed N2 to flowback tank on 15/64" choke and pressure bled to 65 psi in 2 hrs. Open choke to 32/64" and tubing pressure bleeds to 0 psi in less than1 minute. Very slight flow remaining. Take gas sample. Shut in tubing and pressure builds from 0-285 psi in 45min and then stabilized for 1 hour at 285 psi. Close in and secure well.
3/30/2016	Held safety meeting with crew. Open well to separator unit and record pressures. 82 psi- Tubing / 0 psi- Casing. Take gas samples and analyze for content. Coordinate with OPS and flowtest new perfs (1220-30' & 1315-25') to SCG LP line for 4 hour test. Record data and report to engineering. Shut in and secure well.
3/31/2016	Held saftey meeting with Onyx. Open well to separator and record pressures. 140 psi- tubing / 0 psi- casing. Alert OPS for downstream valve unlock. Begin flowtesing tubing into SCG LP line @ 08:00 hrs. Flowtest well until 15:45 hrs. Final tubing pressure 35psi. Shut in well. OPS lock out LP line. Secure well for the night.
4/1/2016	Hold safety meeting with Onyx. Open well to separator and record pressures. 186 psi- tubing / 0 psi- casing. Alert OPS for downstream valve unlock. Begin flowtesting tubing to SCG LP line @ 07:45hrs. Flowtesting alerted to begin around the clock operation @ 16:00 hrs.
4/2/2016	Continue to flow tubing to SCG LP line- 24 hr OPS.
4/3/2016	Continue to flow tubing to SCG LP line- 24 hr OPS.
4/4/2016	Continue to flow tubing to SCG LP line- Changed orifice plate in test separator from 0.125" to 0.250". Discontinue 24 hour monitoring.
4/5/2016	Continue to flow tubing to SCG LP line - 24 hr OPS.
4/6/2016	Continue to flow tubing to SCG LP line -
4/7/2016	Continue to flow tubing to SCG LP line
4/8/2016	Continue to flow tubing to SCG LP line
4/11/2016	Continue to flow tubing to SCG LP line
4/12/2016	Continue to flow tubing to SCG LP line
4/13/2016	Continue to flow tubing to SCG LP line
4/14/2016	Continue to flow tubing to SCG LP line
4/15/2016	Continue to flow tubing to SCG LP line
4/18/2016	Continue to flow tubing to SCG LP line
4/19/2016	Continue to flow tubing to SCG LP line
4/20/2016	Continue to flow tubing to SCG LP line
4/21/2016	Continue to flow tubing to SCG LP line
4/22/2016	Continue to flow tubing to SCG LP line
4/25/2016	Continue to flow tubing to SCG LP line
4/26/2016	Continue to flow tubing to SCG LP line
4/27/2016	Continue to flow tubing to SCG LP line

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Porter 50 A Sec 27 T 3N R 16W S.B.B.M.
A.P.I. No. 03722737 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 2/17/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
4/28/2016	Continue to flow tubing to SCG LP line

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Drlg/Mtce
12/23/81

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well "SFZU" P-69A, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-22051 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date December 14, 1981

Signature P.S. Magruder, Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99962 was issued to seal casing leaks with casing patches.
1981	
10-30	1st Day. Moved rig from IW #69 to Porter #69A. Spotted rig, hooked up pump and kill lines. Circulated and killed well with 78#/cu. ft. polymer completion fluid. Circulated out gas to Baker tank.
10-31	2nd Day. Circulated out gas and removed xmas tree. Installed mud cross and BOPE. Hooked up lines and tested BOPE blind and pipe rams to 4000 psi and Hydril to 3000 psi with H&H test pump. Test witnessed by Mike Stettner of Division of Oil and Gas.
11-02	3rd Day. Backed out tubing hanger ram nuts and broke off one ram nut. Installed back pressure plug. Removed BOPE. Cut off ram nut with chisel.
11-03	4th Day. Welder ground off ram bolt. Reinstalled BOPE. Pulled seal assembly out of Otis packer at 7547'. Pulled out of well with 3-1/2" tubing, laying down Otis production equipment.
11-04	5th Day. Ran 7-7/8" bit and 47# casing scraper to top of Otis packer at 7547'. Circulated well clean and pulled out of well. Layed down bit and casing scraper. Made up Otis "J" slot retrieving tool and ran in to top of packer.
11-05	6th Day. Latched onto packer at 7547' and pulled packer loose. Pulled out of well and layed down packer. Made up Baker Model "C" bridge plug, ran in to 7500' set bridge plug. Pressured annulus to 3000 psi, would not hold, repeatedly set packer at 7492', 7200', 6000' but unable to obtain good pressure test. Pulled out lay down bridge plug. Made up Baker full bore packer and ran in to 2500'.

11-06 7th Day. Ran Baker lock set bridge plug to 7500' and tested annulus to 3000 psi but would not hold. Pulled to 6000' and tested to 3000 psi but would not hold. Tested at 5400' but would not hold. Pulled to 600' and tested to 3000 psi which held. Stage tested in hole and located leak in casing between 4910' and 4940'. Pulled out and layed down bridge plug. Made up bit and 9-5/8" casing scraper.

11-07 8th Day. Ran bit and casing scraper to top of liner at 7584', circulated hole clean.

11-09 9th Day. Filled hole which took 70 bbls fluid. Pulled out and layed down bit and casing scraper. Made up Baker Model "C" bridge plug and full bore squeeze tool. Ran to 4000' and pressure tested tools to 4000 psi. Ran to 7500', set bridge plug at 7500' and set full bore at 7460'. Tools would not test.

11-10 10th Day. Pulled out and layed down Baker bridge plug and full bore cementer. Rigged up Hydro-test. Made up Johnston bridge plug and positrieve cementer. Hydro-tested in well to 4000 psi. Ran in and set bridge plug at 7525'. Set retainer at 7499' and tested to 3000 psi. Tested casing up well to 4923', found no additional hole in casing. Hole in casing between 4913' and 4923'.

11-11 11th Day. Ran in to 7525'. Released bridge plug, pulled and reset at 5031'. Equalized 15 cu. ft. sand on bridge plug and set squeeze tool at 4855'. Tested annulus to 1000 psi. Open slide valve, pumped 20 cu. ft. fresh water followed by 115 cu. ft. Class "G" neat cement and 10 cu. ft. fresh water. Displaced with 98 cu. ft. polymer. Closed slide valve and squeezed 85 cu. ft. cement at 2 bbls per minute with pressure build up from 1800 psi to 2400 psi. Let set for 30 minutes and pressure bled off. Pumped 30 cu. ft. to clear leak in casing.

11-12 12th Day. Closed slide valve and pressured up on annulus to 1000 psi. Obtained breakdown of 2 bbl per minute at 1600 psi. Opened valve, pumped 20 cu. ft. fresh water, 115 cu. ft. Class "G" neat cement, 10 cu. ft. fresh water and displaced with 98 cu. ft. polymer. Closed slide valve. Pressured annulus to 1000 psi and squeezed 90 cu. ft. cement at 2 bbls per minute. Pressure build up from 1600 psi to 2000 psi, let set 30 minutes and held 2000 psi. Released squeeze tool. Pulled out and layed down retainer. Removed BOPE and installed tubing head and tested to 5000 psi. Made up bit and casing scraper. Ran to top of cement at 4860'. Rigged up power swivel.

11-13 13th Day. Drilled out cement from 4860' to 4890' and pulled out to change bit. Ran in hole and drilled out cement from 4890' to 4905'.

11-14 14th Day. Drilled out cement from 4905' to 4925'. Cleaned out to top of bridge plug at 5031' and circulated well clean. Pulled out, layed down 8-1/2" bit and casing scraper. Made up retrieving head. Pressure tested cement squeeze to 1500 psi. Ran in and circulated down over bridge plug and pulled bridge plug loose.

11-16 15th Day. Pulled out and layed down bridge plug. Made up 9-5/8" 53.5# Pengo patch and ran in to 7584' (top of liner), picked up and set patch. Bottom at 7582' top at 7540' using Mc Cullough wireline. Casing patch did not set. Pulled out with casing patch. Layed down same. (Note: Found cement scale on top of firing pin.)

11-17 16th Day. Made up 7-7/8" bit and casing scraper. Ran to 7584' and circulated well clean. Pulled out and made up 9-5/8" 53.5# Pengo patch. Ran in and set bottom at 7582' top at 7540', using Mc Cullough wireline.

11-18 17th Day. Pulled out and layed down Pengo tools. Made up Lynes tester. Ran in and set packer at 7500'. Opened tool at 2:30 P.M. and blew fluid out of rat hole to Baker tank. Opened well to gas flow line, to clean up tubing to reservoir pressure 2950 psi. Ran noise log to 7500' but could not record log due to high winds.

11-19 18th Day. Ran N.L. Triangle noise log from 7465' to 1500' which showed no gas movement. Opened bypass in Lynes packer and circulated out gas. Unset packer and pulled out of well. Broke down Lynes tools. Well started kicking. Ran in 21 stands and circulated out gas. Staged in well to 6814' and circulated out gas.

11-20 19th Day. Continued to circulate out gas until well was dead. Pulled out of well and made up Otis 9-5/8" 53.5# Permatrieve packer. Ran in on Mc Cullough wireline. Set top of packer at 7500'. Pulled out of well and setting tool hung. Pulled out of rope socket at 4300'. Ran 3-1/2" overshot on wireline to 7490' and worked over fish. Pulled out lay down setting tool and overshot.

11-21 20th Day. Made up 9-5/8" 47# Pengo casing patch. Ran in 80 stands, picked up single to space out patch and could not move patch which stuck at 4872'-4914'. Tried to work patch past tight spot. Patch would not move up or down well. Released from patch and pulled out of well. Layed down setting tool.

11-23 21st Day. Pulled out of well. Made up spear, bumper sub and jars on four 4-3/4" drill collars. Ran in to top of patch at 4872'. Latched in and pulled top swedge. Pulled out and layed down same. Ran in to 4873' and latched in to Pengo patch. Jarred patch loose and pulled out of well. Layed down patch (left bottom swedge in well). Made up 8-1/2" bit, casing scraper and ran in to 2000'.

11-24 22nd Day. Made up 7-7/8" bit and casing scraper and ran in well. Pushed Pengo swedge to top of Otis packer at 7500'. Circulated bottoms up. Pulled out, changed bit to 8-1/2" and ran in to 4840'. Reamed cement squeeze from 4840' to 4960'. Pulled out of well. Layed down bit and casing scraper. Made up Otis "J" latch assembly and ran to 2000'.

11-25 23rd Day. Ran in to 7500' and Jayed into packer. Pressured annulus to 1500 psi. Unjayed from packer and pulled out of well. Layed down seal assembly. Made up Pengo 9-5/8" 47# casing patch. Ran in and set patch, top at 4888', bottom 4930' with Mc Cullough wireline. Pulled out, layed down Pengo tools and made up "J" latch.

11-27 24th Day. Pulled out of well. Ran Otis "J" latch and seals. Changed 32 N-80 and 58 J-55 bevelled collars. Ran in to Otis packer at 7500' and Jayed in packer. Pressured annulus to 1500 psi for 20 minutes. Unjayed from packer and pulled out of well. Made up Otis completion equipment, ran in to 2000' and hydrotested to 5000 psi.

11-28 25th Day. Hydrotested tubing to 5000 psi. Ran in well and stabbed in packer. Spaced out tubing and landed on doughnut with 20,000# on packer. Removed working floor. Removed BOPE and installed xmas tree. Tested to 5000 psi.

11-30 26th Day. Circulated hole fluid out with waste salt water. Tear out rig and equipment for move to SS-4. Loaded out rig equipment. Released rig at 5:00 P.M., 11-30-81.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well "SFZU" P-69A, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-22051 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date July 14, 1983

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99185 was issued to remove casing patches & repair shoe leak. GWO #95030 was issued to install inner string & replace tubing.
1983	
4-27	1st Day. Rigged down SPS Rig #45 and moved to Porter #69A.
4-28	2nd Day. Rigged up SPS #45. Circulated well. Installed back pressure valve in doughnut. Removed Xmas tree and installed 11" x 5000 psi Class III BOPE.
4-29	3rd Day. Pressure tested BOPE with water as follows: blind rams 3,000 psi - 20 minutes; pipe rams 3,000 psi - 20 minutes; Hydril 2,300 psi - 20 minutes; choke manifold 3,000 psi - 20 minutes. Tests witnessed by Ms. Fulco with DOG. Removed back pressure valve from doughnut, unlanded doughnut and circulated well. Pulled out of well laying down production equipment. Made up 7.75" O.D. spear on one 4-3/4" bumper sub, hydraulic jars and six 4-3/4" O.D. drill collars. Started in well.
4-30	4th Day. Ran Bowen 7.75" spear to 4888' and attached to top swedge of casing patch. Pulled out of well and retrieved swedge. Ran 7.75" index on fishing assembly and set tool at 4930'. Pushed lower swedge from patch and pulled out of well. Made up 7.75" O.D. spear on fishing assembly and attached to casing patch. Pulled to 1800' and tools came free. Pulled out and found grapple had released. Started back in well with spear.
5-2	5th Day. Attached 7.75" O.D. spear to casing patch at 6555' and pulled out of well. Recovered complete patch less bottom swedge. Made up Otis latch-in pulling tool on fishing assembly and ran to 7520' and attached to 9-5/8" Otis permatrieve packer and pulled out of well. Recovered 2 swedges and Otis 9-5/8" permatrieve packer. Made up 7.75" O.D. spear on fishing assembly and started in well.

10-18-83 - Distributed to DOG, GCA, JWT, JB Lane

OG103 (11/80/DWRR/15M)

5-3 6th Day. Ran 7.75" O.D. spear to 7540'. Attempted to attach to top swedge of casing patch but had no indication of attaching. Pulled out of well and did not retrieve swedge. Ran 7.75" on index tool on fishing assembly but could not work index tool into top of casing patch at 7540'. Started out of well.

5-4 7th Day. Finished pulling out with index tool. Shut rig down six hours for repairs. Made up 7-½" O.D. spear on fishing assembly and ran to 7540'. Attached to top swedge of casing patch and started out of well.

5-5 8th Day. Finished pulling out with 7-½" O.D. spear and retrieved top swedge of casing patch. Re-ran 7-½" spear to 7541' and attached to casing patch. Worked patch out of well recovered casing patch less bottom pack off section 1' x 7-½" I.D..

5-6 9th Day. Made up 8-3/8" O.D. concave mill on milling assembly and found Pengo pack off assembly at 7485'. Milled assembly and cleaned out to 7584'. Pulled out of well. Layed down 20 bad joints of 3-½" tubing.

5-7 10th Day. Replaced 14 bad 3-½" 8 rd collars of work string. Ran Johnston 5-½" 20# retrievable bridge plug on 2-7/8" tubing tail to 7655'. Set bridge plug and displaced 540 bbls. of 64#/cu.ft. polymer completion fluid with 540 bbls. of 63#/cu.ft. lease salt water. Pulled out of well with Johnston retrieving tool. Made up 18 joints (560') of 2-7/8" tubing tail on 3-½" tubing and ran tail to 7650'.

5-9 11th Day. Filled hole with 3 bbls. of salt water. Ran in well to 7650'. Set bridge plug at 7655'. Pumped 10 sacks sand. Pulled up 5 stands. Waited one hour. Ran in well and located sand at 7588'. Pulled out of well and measured out. Ran feeler on with wire line and located sand at 7588'. Ran bailer with one sack of sand. Located at 7583'. Ran bailer and dump 1.5 sacks cement. Ran bailer and dumped 1.5 sacks cement.

5-10 12th Day. Filled well with 3 bbls. of salt water. Ran Hercules wire line bailer and located top of cement at 7575'. Pulled out of well. Made up and ran in well with 313' of tubing tail on Johnston 9-5/8" retrievable squeeze tool, equalized 100 cu.ft. acid at 7561'. Set retrievable retainer and obtain breakdown of 5.6 cu.ft./min. at 2800 psi. Left 2 cu.ft. acid in casing.

5-11 13th Day. Equalized 174 cu.ft. of acid. Obtained breakdown of 8.4 cu.ft./minute at 2,600 psi. Pulled out of well. Rigged up Welex. Ran 8" O.D. gauge ring to 7550'. Made up and ran Johnston 9-5/8" cement retainer and set top of retainer at 7510'. Ran stinger on 3-½" tubing to 7200'.

5-12 14th Day. Finish running in well to 7510'. Stabbed into retainer. Pressure tested retainer on annulus to 500 psi for 20 minutes. Pulled stinger up to 7508' and established circulation. Test lines to 3,000 psi. Pumped 25 cu.ft. acid, followed by 57 cu.ft. 131#/ cu.ft. cement, 10 cu.ft. fresh water and 264 cu.ft. salt water. Stabbed into retainer and pumped 12 cu.ft. salt water with 2 cu.ft. acid and obtained returns. Attempted to set more weight but could not go down. Pulled 25,000 # over string weight. Pulled 4 stands, reversed out and cleared tubing. Pulled out of well and found 7 joints of bent tubing.

5-13 15th Day. Rig down for repairs.

5-14 16th Day. Rig down for repairs.

5-15 17th Day. Made up 8-3/8" O.D. bit on six 4-3/4" drill collars and found retainer at 7482' with no cement above it. Pulled out of well. Ran 8-3/8" x 7-½" mill shoe on milling assembly to 7482' and milled for 2 hours.

5-17 18 Day. Continued milling on retainer from 7482' - 7484'. Retainer moved down to 7487'. Milled retainer without circulation for 15 minutes. Pulled out of well. Did not recover retainer. Ran 8-3/8" x 7-½" mill back to 7487' and milled to 7571' where mill stopped. Started out of well.

5-18 19th Day. Finished pulling out of well. Retrieved upper cone and lock ring from Johnston 9-5/8" retainer. Made up 8-½" O.D. concave mill on milling assembly and ran to 7571'. Continued milling from 7571' - 7573'.

5-19 20th Day. Continued milling from 7573' to 7578'. Started out of well laying down bad 3-½" tubing and measuring tubing.

5-20 21st Day. Finished pulling out with milling assembly. Made up 240' of 3-½" tubing tail on Johnston 9-5/8" retainer and ran tail to 7475'. Back scuttled fill to 7576'. Set retrievable retainer at 7334' and obtained break down with water at 5 cu.ft./minute at 3,000 psi. Spotted 125 cu.ft. of 12% Hcl and 3% HF acid at 7574' and displaced 100 cu.ft. into holes at 7574' at 21 cu.ft./ minute at 3,000 psi. Pulled out with retainer. Ran Baker drillable retainer on McCullough electric line and set at 7502'. Made up Baker cementing stinger on 3-½" tubing and started in well.

5-21 22nd Day. Ran Baker stinger to retainer at 7502'. Preceded by 25 cu.ft. of 6% Hcl and 1-½% HF acid. Mixed 115 cu.ft. of neat "G" cement with .5% D31 and .6% D19 and displaced 20 cu.ft. past holes at 7574' with final pressure of 2400 psi. Mixed 115 cu.ft. of neat "G" cement with no additives and displaced 84 cu.ft. out holes at 7574' before reaching 3000 psi final pressure. Pressure tested holes in casing at 4913' with 1300 psi for 35 minutes. Pulled out with Baker stinger. Ran Johnston 9-5/8" retrievable bridge plug to 3000' and set. Started out with tubing.

5-23 23rd Day. Pulled out with Johnston retrieving tool. Removed 11" x 5,000 # BOPE, tubing head and seal flange. Using CPS hydraulic jacks and Midway spear unlanded 9-5/8" casing with 525,000 #. Cut 13-3/8" casing below 13-5/8" x 5,000 psi casing head and removed 30" section of 13-3/8" casing.

5-24 24th Day. Reinstalled 13-5/8" casing head on 13-3/8" casing. Using Valley X-Ray, inspected weld, but weld failed to pass inspection. Cut off wellhead and prepared to re-install.

5-25 25th Day. Re-welded 13-5/8" casing head on 13-3/8" casing. Inspected weld with Valley X-Ray (weld passed inspection). Using Midway, 9-5/8" spear and CPS hydraulic jacks, relanded 9-5/8" casing with 350,000# on slips. Cut off excess 9-5/8" casing. Started re-installing 11" x 5000 psi BOPE.

5-26 26th Day. Finished installing 11" x 5000 psi Class III BOPE. Pressure tested to 2,000 psi. Ran Johnston retrieving tool to 3,000'. Attached to 9-5/8" retrievable bridge plug and pulled out of well. Made up 8-3/8" concave mill on milling assembly and ran to 7500'. Displaced 540 bbls. of 63#/cu.ft. lease water from well with 540 bbls. of 64#/cu.ft. polymer completion fluid. Started milling on retainer at 7509'.

5-27 27th Day. Milled retainer at 7509' and cement to 7578'. Pulled out of well with mill. Made up 300' of 2-7/8" tubing tail below Johnston 9-5/8" retrievable retainer and started in well.

5-28 28th Day. Ran 3-½" tubing tail below 9-5/8" Johnston retrievable retainer to 7547' and cleaned out to 7578'. Set Johnston 9-5/8" retainer at 7275' with tail at 7575' and pressured 2000 psi for 20 minutes. Pulled out with retainer. Made up 8-5/8" bit on drilling assembly with one 9-5/8" casing scraper and drilled out cement to 7584', top of liner. Started out of well.

5-31 29th Day. Finished pulling out with 9-5/8" bit. Made up 4-5/8" bit and 5-½" 20# casing scraper on 2-7/8" tubing. Cleaned out sand from 7584' to 7650' and back-scuttled at 7635'. Pulled out of well and found one casing scraper blade 4" x 1" thick missing.

6-1 30th Day. Made up casing surge tool with 4-½" O.D. 4-1/8" I.D. skirt on 300' of 2-7/8" tubing tail. Ran to 7606' and surged tubing four times. Pulled out of well but did not retrieve anything. Ran Bowen 4-½" O.D. magnet on sand line three times but did not recover scraper blade. Made up 4-½" O.D. 4-1/8" I.D. junk catcher type washover shoe on 2-7/8" tubing tail and started in well.

6-2 31st Day. Ran catcher type washover shoe to 7606' and back-scuttled to 7647'. Pulled out of well. Ran Johnston 5-½" retrieving tool on 2-7/8" tail to 7642' and back-scuttled sand out to 7655'. Attached to retrievable plug at 7655', released plug and pulled out of well. Plug came off retrieving tool while pulling out of well. Made up new retrieving tool on tubing and started in well. Recovered large piece of casing scraper blade and several pieces of metal inside retrieving tool.

6-3 32nd. Ran retrieving tool to 7950'. Attached to 5-½" Johnston retrievable bridge plug and pulled out of well. Made up 4-½" O.D. washover shoe on 2-3/8" tubing tail and cleaned out fill from 8261' - 8390'. Started out with shoe.

6-4 33rd Day. Pulled out with washover shoe. Made up Lynes test tools on 3-½" tubing. Ran packer to 7539' with tail to 7545'. Installed test head on tubing and pressure tested head, manifold and lines to 3,000 psi.

6-6 34th Day. Open Lynes test tool and flowed well to Baker tank. Produced 12 bbls. of fluid. Connected test lines to Gas Company line. Flowed well from 1:00 p.m. to 9:00 p.m. through 14/64" choke @ 950 psi tubing pressure = 6 MMCF per day rate.

6-7 35th Day. Opened Lynes tool @ 6:05 a.m. shut in pressure 1,500 psi. Flowed well on 12/64" bean at 1480 psi till 1:00 p.m. Flowed well on 30/64" bean at 1,000 psi till 9:00 p.m. at 6.5 MMCF per day. Shut well in.

6-8 36th Day. Rigged up and ran McCullough Audio Analyzer log from 7500' to surface. Open Lynes tool and killed well. Circulated well and bled off gas. Pulled out of well. Ran in hole with casing cutter to 3000'.

6-9 37th Day. Filled hole with 12 bbls. fluid. Finished running in well from 3000' to 7595'. Cut 5-½" casing. Pulled out of well. Made up and ran in hole with spear, bumper sub, jars and drill collars to 7593'. Set spear and pulled out well. Did not retrieve fish. Made up and ran in well with 8-3/8" mill and junk sub to 7000'.

6-10 38th Day. Cleaned out to top of Liner Hanger. Circulated for 30 minutes. Got 26 bbl gas kick. Shut well in. Went through choke manifold and conditioned mud. Circulated gas out. Pulled out of well. Ran in well with 4-1/8" bit and scraper to 7614', cleaning out top of liner. Circulated well for 1 hour. Pulled up to 5414'.

6-11 39th Day. Pulled out of well from 5414'. Ran in well with casing cutter. Cut 5-½" casing at 7596'. Pulled out of well. Ran in with spear, bumper sub, jars, & D.C. to 7592'. Set spear. Worked fish loose. Pulled up to 7300'.

6-13 40th Day. Pulled out of well with fishing tools. Retrieved Burns 9-5/8" x 5-½" liner hanger, port collar and 4.70' of wire wrapped liner. Made up 4-5/8" tapered mill on milling assembly and ran mill to 7660'. Pulled out of well. Made up 60' of 7-5/8" x 6-3/4" wash pipe on 3-½" tubing. Ran wash pipe to 7619', attempted to clean out by back scuttling. Would not clean out.

6-14 41st Day. Cleaned out gravel pack sand from 7619' to 7650'. Pulled out with washover pipe. Made up 5-½" cutter on 2-7/8" tubing tail and ran to 7645'. Cut 5-½" liner and pulled out of well. Made up 5-½" spear on fishing assembly and started in well.

6-15 42nd Day. Attached 5-½" casing spear to liner top at 7600' and pulled out of well. (Retrieved remaining 35' of wire wrapped screen and 10' of blank from 7634' to 7705'). Ran Baker 9-5/8" 53.5# x 5-½" lead seal pack off to 7645', attached to 5-½" casing and packed off the lead seal. (Top of pack off = 7641'). Pulled out with setting tools. Made up 4-5/8" bit on 2-3/8" tubing tail and started in well.

6-16 43rd Day. Ran 4-5/8" bit to 8253' (top of fill) and cleaned out to 8390'. Pulled out of well. Ran Baker 8.315" O.D. junk basket on McCullough electric line. Stopped at 7570'. Ran Baker 8.128" O.D. packer on electric line; stopped at 7570'. Ran McCullough 4" O.D. collar locator to liner and found top of blank at 7651'. Made up Servco 7-5/16" O.D. mill on milling assembly and ran to 7570'. Mill stopped and would not stick or work down well with 40,000# set down weight; started out with mill.

6-17 44th Day. Finished pulling out with 8-5/8" mill. Made up Baker liner running tool on fishing assembly. Ran to 7570', attached to Baker adapter and pulled out of well. Retrieved adapter.

6-18 45th Day. Made up new Baker 9-5/8" x 5-½" Drive over lead seal pack off. Ran to 7645' and attached to 5-½" liner and packed off lead seal. Released from hanger and pulled out of well.

6-20 46th Day. Made up Baker 9-5/8" Model "D" Packer on Pengo Electric line and located liner Hanger at 7641'. Corrected to collars and set top of Packer at 7627'. Ran Baker test seals on 3-½" tubing to 7627' and pressure tested seals and packer to 1300 psi. Started out of well laying down 3-½" tubing.

6-21 47th Day. Finished laying down 3-½" tubing. Removed 3-½" rams and installed 7" rams in BOPE. Made up Baker 7" x 3.875 I.D. locator seal on 7" 26# N-80 N.L. F.L. - 4S Quadraseal casing. Ran casing to 7627'. Spotted 200 bbls. of 70# cu.ft. Double Inhibited polymer completion fluid between 7" and 9-5/8" casing and landed 7" on slips in Inner string spool with 55,000 # set down weight on Baker model "D" packer at 7627'.

6-22 48th Day. Installed 7" Baker model "C" retrievable plug at 60'. Removed BOPE. Cut off excess 7" casing. Dressed oversized casing stub (1/16" oversized). Re-installed BOPE and pressure tested to 2000 psi. Removed Baker 7" retrievable bridge plug. Using Pengo electric line set Baker 7" 26# model "D" packer at 7606'. Made up Baker test seals on 2-7/8" EUE 8 rd tubing and started in well picking up new 2-7/8" tubing.

6-23 49th Day. Finished picking up 2-7/8" tubing. Landed Baker locator latch in model "D" packer at 7606'. Pulled 20,000 # over tubing weight and set 10,000 # on packer. Pressured seals and packer to 1,500 psi. Pulled out with test seals. Made up Baker Production tube on one 2-7/8" locator latch with 2 seals 1-joint of 2-7/8" tubing 1 2-7/8" x 2.205" Otis no-go nipple; 1-joint of 2-7/8" tubing, 1 2-7/8" Otis sliding sleeve (open) 1-joint of 2-7/8" tubing; 1 Camco 2-7/8" gas lift mandrel with 4000# BST pump out and hydrotested in well at 5000 psi. Baker sealed tubing threads. Attached to Baker model "D" at 7606' and landed with 3000 # on Baker latch when doughnut was in place.

6-24 50th Day. Installed back pressure valve in doughnut. Removed BOPE and installed Xmas tree. Pressure tested tree, doughnut seals and 7" seal flange at 5000 psi. Removed back pressure valve from doughnut. Displaced 500 bbls. of polymer completion fluid with 500 lbs of 63#/cu.ft. lease salt water. Blind flanged outlets on tree and released rig to contractor at 2:00 p.m.

SUBMIT IN DUPLICATE

20798-705 1-74 6M (7) OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. SESNON FEE #1, Sec. 33, T. 3N, R. 16W, S.B. B. & M.
API No. 037-00647

Date February 17, 1978 Signed P. S. Magruder, Jr.

P.O. Box 3849, Terminal Annex, Los Angeles 90051 Title Agent
(Address) (213) 689-3561 (Telephone Number) (President, Secretary or Agent)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1977	
12-23	Pulled plug from mandrel at 9016'. Killed well with 350 barrels of 68#.cu.ft. polymer drilling fluid.
12-27	Started moving California Production Service Rig #D-6 from Porter #42 to Sesnon Fee #1. Suspended operations due to mechanical failure and inclement weather.
12-28	Rig shut down - equipment failure - replacing main drive engine.
12-29	Finished moving rig to location and rigged up.
12-30	Circulated well. Installed back-pressure valve. Removed Christmas tree and installed B.O.P.E. Tested B.O.P.E. with water and nitrogen, as follows: Blind rams at 4000 psi for 20 minutes Pipe rams " 4000 psi for 20 " Hydril bag " 3000 psi for 20 " Above tests all O.K. Tests witnessed by D.O.G. Pulled back-pressure valve from tubing hanger. Released Baker anchor seal assembly from packer and circulated well.
12-31	Pulled tubing and equipment out of well. Made up Baker "DR" plug on 2 3/8" tubing and set in Baker Retrieva-"D" packer at 9100'. Started out of hole.
1978	
1-1	Rig and crew idle.
1-2	Public Holiday - Rig and crew idle.
1-3	Finished pulling tubing out of well. Removed 6" B.O.P.E. Removed tubing head and intermediate string seal flange. Unlanded intermediate string. Installed 8" B.O.P.E.

OG 103

1-4 Pulled 5 1/2" 17# innerstring out of well. Ran 7" 23# Baker plug to 55' and set. Attempted to pressure test B.O.P.E. - Baker plug leaked. Pulled Baker plug out of well.

1-5 Set Baker bridge plug at 15' and pressure tested B.O.P.E. with water and nitrogen, as follows:

Hydril bag	at 3000 psi	for 20	minutes
Pipe rams	" 4000 psi	" 20	"
Blind rams	" 4000 psi	" 20	"

Above tests all O.K. Witnessed and approved by D.O.G.
Made up Baker retrieving tool for "DR" plug and released plug.

1-6 Attempted to recover "DR" plug with Baker retrieving tool but could not attach to plug. Pulled retrieving tool out of well. Made up Midway Fishing tools, overshot and bumper sub. Ran tools to Baker "DR" plug and released plug. Started out of well.

1-7 Finished pulling out of well with Baker "DR" plug. Made up Baker retrieving tool for 7" Retrieva-"D" packer on jars, bumper sub and one drill collar. Released Baker Retrieva-"D" packer and pulled out of well. Made up 7" Robinson casing scraper on 2 3/8" tubing and started in well.

1-8 Rig and crew idle.

1-9 Pulled out of well with 7" scraper. Ran Baker bridge plug and located leak 1378'-1383'. Breakdown 20 cu.ft. per minute at 100 psi. Set full bore retrievable retainer at 1250'. Breakdown 1/2 cu.ft. per minute at 1500 psi. Mixed 25 sacks of neat "G" cement and pumped 5 cu.ft. of cement into holes before reaching 1500 psi. Backscuttled excess cement out of tubing. Pulled retrievable retainer out of well. Closed blind rams and pressured casing to 1500 psi.

1-10 Cleaned out to 1390' with 6" bit and 7" casing scraper. Pressure tested to 1500 psi for 15 minutes - O.K. Released retrievable bridge plug and re-set at 2076'. Pressure tested to 1500 psi for 15 minutes. Released retrievable bridge plug and set at 9105'. Pressure tested to 1500 psi for 15 minutes. Released retrievable bridge plug and pulled out of well. Started in well with 4 1/8" bit and scraper.

1-11 Cleaned out fill with 4 1/8" bit and 5" scraper from 9380' to 9398'. Ran Baker 7" Model "F" packer on "GO" Wireline and set packer at 9091'. Made up Baker locator seal assembly on 5 1/2" Hydril super flush joint casing and started in well hydrotesting to 5000 psi for one minute.

1-12 Continued running 5 1/2" innerstring. Spotted 90 barrels of 68#/cu.ft.

inhibited brine-polymer drilling fluid behind 5 1/2" casing. Landed 5 1/2" with 50,000# on packer and balance on slips.

1-13 Set Baker 5 1/2" retrievable bridge plug at 15'. Removed B.O.P.E. Installed slips in innerstring head and cut off excess 5 1/2" casing above head. Installed and pressure tested 10" x 5 1/2" x 5000 psi seal flange and 10" x 8" x 5000 psi tubing head. Installed 6" x 5000 psi B.O.P.E. and tested with water, as follows:

Hydril bag at 3000 psi for 20 minutes - O.K.
Pipe rams " 4000 psi " 20 " - O.K.
Blind rams " 4000 psi " 20 " - O.K.

1-14 Tested with nitrogen, as follows:

Hydril bag at 3000 psi for 20 minutes - O.K.
Pipe rams " 4000 psi " 20 " - O.K.
Blind rams " 4000 psi " 20 " - O.K.

Pulled Baker 5 1/2" retrievable bridge plug. Started in well with open-end 2 3/8" tubing to break off and change out tubing collars. Picked up 53rd stand after making it up into the 52nd stand and started in well when tubing below 53rd stand fell off, dropping 3270' of 2 3/8" tubing into well. Laid down all but 2000' of 2 3/8" tubing to inspect same.

1-15 Rig and crew idle.

1-16 Finished laying down 2 3/8" tubing and hauled to inspection rack. Hauled in 7000' of 2 7/8" EUE 8rd tubing. Made up Midway fishing tools 4 1/2" x 3 1/4" overshot on 2 7/8" tubing and started in well.

1-17 Attached overshot to fish. Pulled tubing and recovered entire fish . . . 104 joints of 2 3/8" tubing. Ran 2 7/8" tubing into well and started laying tubing down.

1-18 Finished laying down 2 7/8" tubing. Ran 5 1/2" Baker Model "F" packer on McCullough electric line and set at 9056'. Made up Baker production tube, latch-type seal assembly, Camco 10' blast joint, Baker 1.56" NO-GO nipple, Camco 20' blast joint, Hydrotested to 5000 psi for one minute. Ran 2 3/8" tubing, changing tubing collars, cleaning pins, applying Baker seal and Hydrotesting to 5000 psi for one minute.

1-19 Continued running 2 3/8" tubing in well, changing tubing collars, cleaning pins, applying Baker seal and Hydrotesting to 5000 psi.

1-20 Landed and spaced out Baker latch-type seal assembly in packer. Pulled 25,000# over tubing weight (42,000# + 25,000# = 67,000#) to check latch. Landed tubing hanger with 6000# set-down weight on packer. Installed back-pressure valve in hanger and removed B.O.P.E. Installed Christmas tree and pressure tested tree to 5000 psi. Displaced 68# polymer drilling fluid with lease salt water. Ran Baker 1.56" standing valve on Archer-Reed wireline and pressure tested packer and seals at 2000 psi. Pulled standing valve out of well.
RIG RELEASED at 10:00 P.M. (1-20-78)

FORM 103 SUBMIT IN DUPLICATE △ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR Southern California Gas Company FIELD Aliso Canyon

API No. 037-00040

Well No. Standard Sesnon # 10, Sec. 29, T. 3N, R. 16W, S.B. B. & M.

Date January 10, 1979 Signed PSM/ P.S. Magruder, Jr.

P.O. box 3249 Terminal Annex
Los Angeles, Ca. 90051 (213) 689-3561 Title Agent

(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date

1978

GWO 98402
MWO 99568

Program: To isolate and correct leak in 7", 23# N-80 casing approximately 4,500'.

12-9 0 Day. Killed well with 315 barrels of 72# polymer completion fluid.

12-11 1st Day. Moved California Production Service Co. rig #D-3 onto wellsite.

12-12 2nd Day. Rigged up and circulated well. Removed tree and installed BOPE. Tested blind rams and pipe rams with water to 4,000 psi for 20 minutes. Tested Hydril with water to 3,000 psi for 20 minutes.

12-13 3rd Day. Tested manifold with water to 4,000 psi for 20 minutes. Tested with nitrogen as follows:

1. Manifold and lines with 4,000 psi for 20 minutes.
2. Blind rams and pipe rams with 4,000 psi for 20 minutes.
3. Hydril "GK" with 3,000 psi for 20 minutes.

Released tubing from packer. Circulated 1-1/2 hours and started out of hole.

12-14 4th Day. Pulled tubing and production equipment from well. Ran 6" bit and scraper to top of liner at 7,976'. Circulated hole clean and started out of hole.

12-15 5th Day. Continued out of hole. Ran Johnston bridge plug which was set at 4,600'. Spotted 5 sacks of sand above bridge plug. Pulled 180' of tubing and waited one hour. Tagged sand at 4,592'. Pulled out and ran Johnston "fullbore". Checked sand at 4,577'. With packer at 4,565' tested bridge plug to 2,000 psi for 10 minutes. Tested with packer at 4,442' to 4,577' with 2,000 psi for 20 minutes, OK. Tested casing from 4,442' to surface with 2,000 psi for 20 minutes, OK. Tested with packer at 4,412' to 4,577' with 2,000 psi for 20 minutes, OK. Pulled out of hole. Started in hole for bridge plug.

12-16 6th Day. Ran in hole with bridge plug retrieving tool and tagged sand at 4,577'. Circulated sand out of hole. Retrieved bridge plug. Made up one seal, "J"-latch, 2 3/8" Bowen jars, 115' 3 1/8" drill collars, 21 joints (657') 2 3/8", 4.7#, 8rd, EUE tubing. Ran in and latched into packer at 8,600'. Unseated packer. Pulled out of hole. Laid down packer and tools. Ran in hole with 5" casing scraper, 33 joints (1,023') 2 3/8" , 4.7#, 8rd, EUE, 2 7/8" tubing to 2,000'.

12-17 Rig and crew idle.

12-18 7th Day. Ran 4 1/8" bit, 5" casing scraper, 33 joints 2 3/8", 4.7#, 8rd EUE to top of fill at 8,881'. Cleaned out to 8,900'. Circulated hole. Pulled out and ran collar locator and Neutron Correlation Log from 4,700' to 3,700'. Ran and set 7" Otis "Permatrieve" packer at 7,950' (nearest collar 7,933').

12-19 8th Day. Pulled out of hole. Laid down 2 3/8" tubing. Made up Pengo "casing patch" (four 10' sections) O.D. 6.00", I.D. 5.50", overall length 42'. Ran "patch" on 2 7/8", 6.5#, 8rd, EUE to 4,516'. Ran Neutron Correlation Log to get exact placement. Ignitiers did not fire. Pulled Pengo "patch". Replaced igniters. Reran Pengo "patch". Ran Collar locator log. Set "patch" from 4,474' to 4,516' (42') leak at 4,492'. 7" collars at 4,456', 4,499' and 4,540'. Started out of hole.

12-20 9th Day. Pulled out of hole and laid down Pengo tools. Ran in hole with Otis seal assembly (2 seals) and "J"-latch, changing collars, cleaning pins and applying Baker seal thread lubricant. Latched into 7" Otis "Permatrieve" packer at 7,950' and pulled 20,000# tension load on packer. Pressure tested packer at 1,500 psi for 20 minutes, OK. Pulled up to 2,000'.

12-21 10th Day. Pulled out of hole. Made up guide, production tube, four seals, "J"-latch, 10' blast joint, Otis 2.205" XN nipple, 2' pup joint, 20' blast joint, annular flow safety system (Otis) and tested on rack at 5,000 psi for three minutes. Hydrotested in hole at 5,000 psi for one minute. Used Baker seal thread lubricant. Spaced out tubing and landed tubing with 10,000# compressive load at 7,950'. Tested latch with 25,000# tension load.

12-22 Rig and crew idle.

12-23 Rig and crew idle.

12-24 Rig and crew idle.

12-25 Rig and crew idle.

12-26 11th Day. Made up keeper screws on tubing hanger. Installed back-pressure valve in tubing hanger. Removed B.O.P.E.. Installed xmas tree. Tested upper and lower tubing hanger seals at 5,000 psi for 20 minutes,OK. Then tested above upper tubing hanger seals at 5,000 psi for 20 minutes, OK. Removed back-pressure valve. Changed circulating system to lease brine. Installed blind flanges on production tree.

12-27 12th Day. Cleaned up cellar. Transferred polymer completion fluid. Laid down mast and rigged down. RELEASED RIG at 2:00 p.m.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Standard Sesnon 10
A.P.I. No. 03700040

Field: Aliso Canyon
Surface Location: Sec. 29 T 3N R 16W S.B.B.M.

County: Los Angeles

Todd Van de Putte Title: Senior Storage Field...
(President, Secretary, or Agent)

Date: 12/10/2012

Signature: Todd R Van de Putte
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number: 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
9/6/2012	Opened the well with 2500 psig surface presure on the tubing and the casing. Rigged up and pumped 30 bbl hi-vis polymer displaced (Discovered the tubing plug in place). Rigged up the Western wire line unit, ran in the well and attempted to pull the prong. Sheared off of the prong, rigged down the Western Wireline unit and shut in the well.
9/7/2012	Rigged up an Onyx well test separator and associated piping. Rigged up the Western wire line unit. Ran in the well with a GS pulling tool and pulled the prong. Ran in the well and pulled the plug body. Rigged up and pumped 119 bbls, 9 ppg NaCl brine (tubing volume) and killed the well per schedule with 219 bbls of 9 ppg brine. Secured the well.
9/10/2012	Opened the well with 0 psig surface pressure on the tubing and the casing. Filled the well with 40 bbl of 9 ppg NaCal brine. Nippled down the production tree and nippled up a Class III 5M BOPE with riser spool. Changed the pipe rams to 3-1/2". Rigged up the WEA test pump. Tested the blind rams to 300 psig (low) and 5000 psig (high) for twenty minutes. Tested the pipe rams to 300 psig (low) and 5000 psig (high) for twenty minutes. Tested the Hydril annular preventer to 300 psig (low) and 3500 psig (high) for twenty minutes. Tested all the control valves and the choke manifold to 300 psig (low) and 5000 psig (high) for twenty minutes. (All BOPE tests good) DOGGR Ventura waived the inspection of installed BOPE. Secured the well.
9/11/2012	Filled the well with 34 bbls of NaCl brine. Changed the pipe rams to 4-1/2". Backed out the hold down studs. Unlanded the completion string at 90,000# and released from the packer. Laid down the tubing hanger and pumped open the Baker TR-5 SSSV. Rigged up the casing tongs, pulled out of the well and laid down (14) joints of 3-1/2", 9.3# N-80 tubing and the SSSV. Pulled out of the well and laid down (95) joints of 4-1/2", 11.6#, N-80 casing to a 4100' kill string. Secured the well.
9/12/2012	Opened the well and filled the well with 50 bbl of 9 ppg NaCal brine. Pulled out of the well and laid down (95) joints of 4-1/2", 11.6#, N-80 casing, a GLMA, a Sliding sleeve, a no/go and (4) joints of 3-1/2", 9.3, N-80 tubing. Rigged down the casing tongs and rigged up the 3-1/2" drill pipe tongs. Moved in the pipe wrangler and set in the 3-1/2", 13.3#, S-135 drill pipe. Measured and picked up (70) joints of 3-1/2", 13.3#, S-135 drill pipe. Secured the well.
9/13/2012	Repaired the drill pipe tongs and the hydraulic system. Filled the well with 25 bbl of 9 ppg NaCl brine. Pulled out of the well with a kill string. Made up a spear, a bumper sub, a set of jars, (2) 4-3/4" drill collars and ran in the well. Measured and picked up 3-1/2" drill pipe to the top of the fish (Pengo Casing Patch) at 4500'. Engaged the fish and jarred loose at 100,000lb. Pulled out of the well to 4000' and secured the well.
9/14/2012	Filled the well with 25 bbl of 9 ppg NaCl brine. Pulled out of the well laid down the fish (recovered the top cone of the Pengo patch). Made up a spear, a 38' extension, a bumper sub, a set of jars, (2) 4-3/4" drill collars, and intensifier. Ran in the well engaged the casing patch and jarred free. Pulled out of the well and laid down a 40' section of the Pengo casing patch. Ran in the well with a kill string to 2700' and secured the well.
9/17/2012	Opened the well and filled well with 27 bbl of 9 ppg NaCl brine. Pulled the kill string out of the well. Made up a spear, a bumper sub, a set of jars, and (2) 4-3/4" drill collars. Ran in the well, engaged the casing patch and jarred free. Pulled out of the well (with drag) and laid the down the remaining 1' and bottom cone of the Pengo Casing patch. Made up a 7" casing scraper, ran in the well to 3000' and secured the well.
9/18/2012	Pumped 25 bbl of 9 ppg NaCl brine to fill the well. Measured and picked up 3-1/2", 13.3#, S-135 drill pipe to the top of the packer at 7945'. Pulled out of the well and laid down the casing scraper. Ran in the well with a kill string to 2400' and secured the well.
9/19/2012	Filled the well with 100 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Nippled up a shooting flange and rigged up the Schlumberger wireline unit and associated equipment. Made up the USIT tools with gamma ray and neutron. Ran in the hole with the USIT tools and tagged at 7928'. Logged with the USIT tools to 1500'. Repaired the stranded wire line (Could not keep hole full of brine). Pulled out of the well and rigged down the Schlumberger wireline unit. Ran in the well with a kill string to 2500' and secured the well.
9/20/2012	Removed and restrung the drilling line from 6 to 8 lines. Opened the well and filled the well with 245 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Made up an Otis/HES seal assembly, ran in the well to 7000' and secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Field: Aliso Canyon
County: Los Angeles
Well: Standard Sesnon 10
Surface Location: Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700040
Todd Van de Putte
Title: Senior Storage Field...
(President, Secretary, or Agent)

Date: 12/10/2012
Signature: Todd R Van de Putte
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300
Telephone Number: 818-701-3339

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Start Date	Ops. DOGGR Rpt
9/21/2012	Filled the well with 25 bbl of 9 ppg NaCl brine. Ran in the well to 7931'. Rigged up and pumped 40 bbls hi-vis polymer and displaced with 58 bbl of 9 ppg NaCl brine. Ran in thewell to the Otis permanent packer at 7951'. Engaged packer with the seal assembly and pressure tested the drill pipe/casing annulus to 1000 psig surface pressure for twenty minutes. Released the seals from the packer and pulled out of the well to a kill string at 2800' and secured the well.
9/24/2012	Filled the well with 23 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Made up an 6.306" OD string mill, a 6' lead collar, a 6.306" OD string mill, and (2) 4-3/4" drill collars. The mills would not pass through the wellhead area. Laid down the top mill and ran in the well to 70'. The BHA stopped and attempted to work it through the casing. Laid down both mills and sent in to the shop to be reduced to a 6.241" OD drift. Rigged up the Schlumberger wireline unit and associated equipment. Made up the USIT tools with neutron and gamma ray. Logged from 2500' to the surface. Rigged down and moved out the Schlumberger wireline unit. Ran in the well with a kill string to 2500' and secured the well.
9/25/2012	Filled the well with 8 bbl of 9 ppg NaCl brine. Pulled out of the well with the kill string. Made up a 7" test packer and ran in the well to 2311' and set the packer. Pressure tested the drill pipe/casing annulus to 2300 psig surface pressure for twenty minutes (pressure fell 600 psig in twenty minutes). Released the test packer and pulled to 2270', set the test packer and pressure tested the drill pipe/casing annulus to 2300 psig (pressure fell 800 psig in twenty minutes). Released the test packer, pulled out of the well and laid down the 7" test packer. Made up a 6.241" OD string mill, (1) jt of 3-1/2" drill pipe, a 6.241" OD string mill and (2) 4-3/4" drill collars. Ran in the well to 2227', picked up the power swivel and reamed down to 2353'. Laid down the power swivel and. secured the well.
9/26/2012	Filled the well with 8.6 bbl of 9 ppg NaCl brine. Ran in the well to 4411' and rigged up the power swivel. Ran the mill assembly through the production casing from 4411' to 4505'. Rigged down the power swivel and pulled out of the well with the milling gauge assembly. Laid down the milling assembly and made up a 7" bridge plug. Ran in the well to 2353', set the bridge plug and pressure tested the drill pipe/casing annulus to 1000 psig. Pulled out of the well with the bridge plug running tool. Filled the well and pressure tested the drill pipe/casing annulus to 2300 psig for twenty minutes (pressure held). Ran in the well, released the 7" bridge plug, pulled up to 2500' for a kill string and secured the well.
9/27/2012	Filled the well with 8 bbl of 9 ppg NaCl brine. Pulled out of the well and laid down the 7" bridge plug. Rigged up the casing tongs and made up 60' of the WEA Metalskin casing patch with seals. Made up the Metalskin running tools and rigged down the casing tongs. Ran in the well with the WEA Metalskin casing patch to 4524'. Rigged up and pressured to 4500 psig to shift the running tool and pulled through with 140,000lb to set the anchor, patch and seals from 4524' to 4462'. Pulled up the hole to 4300' with the Metalskin running tools and secured the well.
9/28/2012	Opened the well and filled casing with 9 bbl of 9 ppg brine. Pulled out of the well and layed down the Metalskin running tools. Made up a Otis seal assembly , a no/go with plug in place, and the on/off tool. Ran in the well to 7851', engaged the seals in the Otis packer and released from the on/off tool. Pressure tested the tubing/casing annulus to 1650 psig surface pressure for twenty minutes. Pulled out of the well to 2500' for a kill string and secured the well.
10/1/2012	Opened the well with the hole standing full of brine. Pulled out of the well and rigged down the working floor. Nippled down the Class III 5M BOPE. Nippled down the tubing head (obtained fire permit and cut rusted wellhead bolts). Installed the new primary wellhead seals and nippled up the Class III 5M BOPE. Secured the well.
10/4/2012	Nippled down the Class III 5M BOPE and nippled up the refurbished tubing head. Pressure tested the primary and PS seals to 5000 psig for twenty minutes (pressure held). Nippled up the Class III 5M BOPE and rigged up the working floor and the tubing equipment. Ran in the well with the 3-1/2" drill pipe to 7922' and secured the well.
10/5/2012	Opened the well with the hole standing full of NaCal brine. Laid down and loaded 265 joints of 3-1/2", 13.3#, S-135 drill pipe and secured the well.
10/8/2012	Changed the pipe rams to 4-1/2". Rigged up the WEA casing tongs with the JAM unit. Measured and picked up the bottom half of the on/off tool, (1) jt of 3-1/2", 9.3#, L-80 tubing, a 2.85" X nipple, (1) jt of 3-1/2", 9.3#, L-80 tubing , a WEA sliding sleeve, (1) jt of 3-1/2", 9.3# L-80 tubing, a GLMA, (1) jt 3-1/2" tubing crossover 3-1/2" X 4-1/2". Measured and picked up the 4-1/2" casing to 3600' with seal lube on all connections. Secured the well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Field: Aliso Canyon
County: Los Angeles
Well: Standard Sesnon 10
Surface Location: Sec. 29 T 3N R 16W S.B.B.M.
A.P.I. No. 03700040
Todd Van de Putte
Title: Senior Storage Field...
(President, Secretary, or Agent)
Date: 12/10/2012
Signature: Todd R Van de Putte
(Person Submitting Report)
Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300
Telephone Number: 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops, DOGGR Rpt
10/9/2012	Measured and picked up (185) jts 4-1/2" LT&C casing making up with WEA JAM unit with seal lube on all connections. (A total of 2351' of yellow band 4-1/2", 11.6#, N-80 LT&C and 4938' of new 4-1/2", 11.6#, L-80 LT&C casing ran. All 4-1/2" casing Seal Lubed). Crossed over to 3-1/2" tubing made up the WEA Optimax SSSV at 592' and banded the control line. Spaced out the well and landed the completion string in the tubing hanger with 15,000lb compression. Rigged down the casing tongs and secured the well.
10/10/2012	Well was standing full of 9 ppg NaCl brine. Rigged up and pressure tested the tubing/casing annulus to 1000 psig surface pressure for twenty minutes. Rigged down the working floor, nippled down the Class III 5M BOPE and nippled up the production tree (All new wellhead valves installed on the tree and tubing head). Rigged up the Western wireline unit. Ran in the well with the wireline tools and opened the sliding sleeve. Pumped down the annulus, closed the SSSV and pressure tested to 1000 psig for twenty minutes (all tests good). Rigged down the hoist, rigged down the associated rig equipment and secured the well.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator SOUTHERN CALIFORNIA GAS COMPANY Field or County ALISO CANYON
Well STANDARD SESNON #11, Sec. 28, T 3N, R 16W, S.B.B. & M.
A.P.I. No. 037-00763 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date December 4, 1978

Signature P.S. Magruder, Jr.

P.O. Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address)
(213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1978	MWO 99556 (Repair Shoe Leak)
11-8	0 Day. Killed well with 335 barrels of 70#/cu.ft. polymer completion fluid. Moved in California Production Service Rig #D-4. Rigging up.
11-9	1st Day. Installed choke manifold. Circulated and conditioned gas cut completion fluid. Installed back-pressure valve in doughnut and removed X-mas tree. Installed 8" Class III B.O.P.E. Tested blind rams and pipe rams with 4000 psi for 20 minutes.
11-10	2nd Day. Tested "GK" Hydril with water and nitrogen to 3,000# psi for 20 minutes. Tested 2-7/8" pipe rams, blind rams and choke manifold to 4000# psi with nitrogen for 20 minutes. Released from Baker packer at 8670'. Pulled up 6 stands. Circulated gas from well.
11-11	3rd Day. Pulled out of well. Layed down Camco safety system and Baker seals. Ran 6" bit and casing scraper to 8674'. Pulled out of hole. Ran Baker retrieving tool. Circulated bottoms up.
11-13	4th Day. Released Baker "Retrieva-D" packer. Pulled out of well. Ran in well with 5" casing cutter. Cut liner at 8730'. Pulled out of well.
11-14	5th Day. Ran in well with 5" casing spear. Recovered 32' of 5" 18# liner. Ran in well with 7" casing scraper to 8730'. Pulled out of well.
11-15	6th Day. Ran in well with 7" x 5" drive over lead seal adapter which was set at 8743'. Pulled out of well. Ran Model "N" Baker bridge plug which was set at 8720'. Shot four 1/2" holes at 8692'. Ran in well with 2-7/8" tubing open ended.
11-16	7th Day. Located plug at 8720'. Equalized sand on bridge plug 8720' - 8714'. Tested holes at 8692' which took fluid at rate of 25 cu.ft. per minute. Equalized 50 sacks of class "G" cement. Squeezed away 4 cu.ft. and held 2500 psi for 3-1/2 hours. Pulled out of well. Ran in well with 6" bit and 7" casing scraper.

1978 Daily Well Report for Standard Sesnon #11 - Aliso Canyon

11-17 8th Day. Drilled out cement from 8464' to 8714' and pressure tested holes at 8692' with 2000 psi and held for 20 minutes. Ran Audio Analyzer log from 8680' to 7000' which indicated no gas leakage.

11-18 with 9th Day. Ran in well to 8720' with 7" Baker recovery tool. Milled over and recovered Baker Model "N" bridge plug. Ran in well with 4-1/8" bit and 5" casing scraper. Cleaned out to 8926'. Located top of 5" liner at 8742'.

11-19 Rig and crew idle.

11-20 10th Day. Pulled out of well. Ran in well with Lynes 4-way tester with 3/4" bottom choke. Set packer at 8650'. Took 30 minute initial flow and 30 minute initial shut-in. Flowed well 5-1/2 hours. Surface pressure stabilized at 1700 psi. Shut in overnight.

11-21 11th Day. Ran Audio Analyzer inside tubing above Lynes tester. Unable to get Noise Log reading due to tester clock interference. Pulled tester out of well. Ran Audio Analyzer from 8620' to 6600' which indicated no gas leakage. Ran Baker "Retrieva-D" packer which stopped at 2359'. Unable to work packer through tight spot. Pulled packer out of well.

11-22 12th Day. Ran in well with casing scraper. Worked scraper thru tight spot at 2359'. Pulled out of well. Ran gauge ring and junk basket which stopped at 8410'. Pulled out of well. Recovered rubber in junk basket. Made second run. Stopped at 8410'; no recovery. Ran in well with 6" bit on six collars and 2-7/8" tubing to 8715'.

11-23 Rig and crew idle.

11-24 13th Day. Tagged top of 5" liner at 8742'. Circulated gas cut mud. Pulled out of well. Ran gauge ring and junk basket on wire line which stopped at 8410'. Pulled up to 2500', pulled wire line out of rope socket. Ran in well with over shot. Engaged fish at 2370'. Pulled out of well, no recovery. Ran in well to 8742' set on fish with 20,000#.

11-25 14th Day. Pulled out of well, recovered fish. Ran in well with casing scraper to 8742'. Pulled out of well. Ran Baker "Retrieva-D" packer which stopped at 2359'. Pulled packer out of well. Ran in well with casing scraper and stabilizer. Worked scraper thru tight spot at 2354'. Pulled out of well. Ran in well with packer which stopped at 2359. Pulled out and ran in well with casing scraper.

11-26 Rig and crew idle.

11-27 15th Day. Cleaned out 23# 7" casing to 5397' with casing scraper. Pulled out of well. Ran in well with Baker "Retrieva-D" packer which stopped at 2359'. Unable to pass thru tight spot. Pulled out of well. Ran Otis "Permatrieve" packer which was set at 8660'. Ran seals and latch in locator. Changing collars and applying Baker seal.

1978 Daily Well Report for Standard Sesnon #11 - Aliso Canyon

11-28 16th Day. Finished running in well with 2-7/8" tubing changing collars. Latched in to Otis packer at 8660'. Tested packer with 1500 psi for 20 minutes, pulled out of well. Ran in well with Camco Safety System and Otis Production Tube and latch in locator. Hydrotested all production tubing string to 5000 psi.

11-29 17th Day. Landed 2-7/8" tubing with 8000# on packer at 8660'. Checked latch with 20,000# overpull. Removed B.O.P.E. Installed X-mas tree. Tested tree with 5000 psi for one hour. Circulated polymer completion fluid from well with waste salt water.

RELEASED RIG AT 10:00 P.M.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well Standard Sesnon #11, Sec. 28, T 3N, R 16W, S.B. B. & M.
A.P.I. No. 037-00763 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date June 12, 1980

Signature P.S. Magruder Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, Cal 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1980	MWO # 99618 was issued to repair shoe leak and pressure test casing.
3.24	0 Day. Moved Sierra Production Service Rig #M-30 from Wezu #15 to Standard Sesnon #11 and started rigging up.
3.25.	1st Day. Finished rigging up. Attempted to circulate well. (No returns with 240 bbls). Mixed 80 bbls of 300 viscosity 63#/cu.ft. polymer pill and pumped into well. Shut down for two hours. Pumped 30 bbls but well is still taking fluid.
3.26.	2nd Day. Pumped 200 bbls of polymer completion fluid in well with slight blow on surface before annulus went on vacuum. Mixed 80 bbls of 300 viscosity 63# polymer pill and spotted at 8,660'. Shut down two hours. Pumped 240 bbls of polymer completion fluid and filled well. Installed back pressure valve in doughnut. Removed xmas tree and installed 8" 5,000 psi class III BOPE.
3.27.	3rd Day. Made the following tests with water and nitrogen:

Hydril	3,000 psi	20 minutes
Pipe Rams	4,000 psi	20 minutes
Blind Rams	4,000 psi	20 minutes
Manifold	4,000 psi	20 minutes

Removed back pressure valve from doughnut; unlanded doughnut and released latch from Otis packer at 8,660'. Circulated well, losing 2 bbl/minute. Mixed and spotted 80 bbls of 300 sec. viscosity polymer pill from 8,650' to 6,650' and shut well in.

3.28. 4th Day. Attempted to circulate well and found a loss of 2 bbl/ minute when well filled. Pulled out of well with safety system and Otis latch type seal. Ran Baker 7" Retrievable bridge plug and fullbore retainer in well. Set bridge plug at 8,650' and fullbore at 8,625'. Pressured below fullbore 2,700 psi for 20 minutes. Pressured above fullbore 2,700 psi for 20 minutes. Released tools and set retrievable bridge plug at 3,000'.

3.29. 5th Day. Continued pressure testing as follows:

3,000' to surface	3,000 psi	20 minutes
2,000' to surface	3,500 psi	20 minutes
750' to surface	4,000 psi	20 minutes

Retrieved Baker retainer and retrievable bridge plug from well. Ran Otis retrieving tool to 8,660', attached to permatrieve packer, released and retrieved packer from well. Ran casing scraper to 8,000' and secured well.

3.30. Rig and crew idle.

3.31. 6th Day. Finished running 7" scraper to 8,730'. Attempted to circulate well with no success. Pulled out of well with scraper. Using Welex electric line, set Halliburton 7" "Easy Drill" bridge plug at 8,720'. Ran 310' of 2 7/8" tubing tail below Baker fullbore retrievable retainer and set retainer at 8,387', with tail at 8,697'. Pressured against plug at 8,720' with 1,000 psi. Released retainer and displaced polymer completion fluid from well with 360 bbls of lease water. Spotted and equalized 30 cu.ft. of 12% HCL and 3% HF acid preceeded by 100 cu.ft. and followed by 10 cu.ft. of fresh water. Pumped and displaced 30 cu.ft. of acid into holes at 8,692', 20 cu.ft./minute at 3,000 psi. Released retainer and started out of well.

4.01. 7th Day. Finished pulling out of well with retrievable retainer. Using Welex electric line, set Howco cement retainer at 8,610'. Ran Howco stinger to retainer and obtained breakdown at 20 cu.ft./ minute with 3,000 psi.

Squeeze #1 : preceeded by 10 cu.ft. and followed by 20 cu.ft. of fresh water, mixed and displaced 50 sacks of latex cement out holes at 8,692' and over displaced 20 cu.ft. with water. Maximum pressure 2,600 psi.

Squeeze #2 : preceeded by 10 cu.ft. and followed by 20 cu.ft. of fresh water, mixed and displaced 100 sacks (140 cu.ft.) of latex cement out holes at 8,692' and over displaced 20 cu.ft. past holes. Maximum pressure 3,000 psi. Pressure dropped to 2,600 psi in 30 seconds; 1,400 psi in 1 minute and remained at 1,400 psi in 5 minutes.

4.02. 8th Day. Found 1,200 psi still against cement. Repressured squeeze at 3,000 psi for 20 minutes. (No loss). Released Halliburton latch from cement retainer and pulled out of well. Made up 6" bit, two 5" OD junk subs and 4 3/4" bumper sub on four 4 3/4" drill collars and started drilling cement retainer at 8,610'.

4.03. 9th Day. Finished drilling up retainer. Drilled out cement from 8,667' to 8,694' and cleaned out to 8,700'. Ran 310' of 2 7/8" tubing tail below fullbore retainer and set retainer at 8,386'. Pressured below retainer 2,500 psi for 30 minutes.

4.04. 10th Day. Ran Dresser Atlas wireline gun in well and found fill to 8,691'. Pulled out of well with gun. Ran open end tubing with sawtooth collar and cleaned out to 8,700'. Ran Dresser Atlas bullet gun and shot eight 1/2" holes at 8,691'. Ran 310' of tubing tail below retrievable retainer and set retainer at 8,376'. Pressured below retainer to 2,500 psi and lost 500 psi in 1 minute.

4.05. 11th Day. Preceeded by 100 cu.ft. of fresh water and followed by 10 cu.ft., pumped 30 cu.ft. of 12% HCL and 3% HF acid in well; displaced acid into holes at 8,691' at 20 cu.ft./minute with 3,000 psi. Released retrievable retainer and pulled out of well. Using Dresser Atlas electric line set Halliburton cement retainer at 8,605'. Ran Halliburton latch type stinger on retainer; pumped below retainer to check if ready.

Squeeze #1 : preceeded by 10 cu.ft. fresh water and followed by 10 cu.ft. fresh water, mixed 100 sacks of latex cement (140 cu.ft.) and displaced cement past holes at 8,691' by 30 cu.ft.

Squeeze #2 : preceeded by 10 cu.ft. fresh water and followed by 10 cu.ft. fresh water, mixed and overdisplaced 100 sacks (140 cu.ft.) of latex cement 30 cu.ft. past holes at 8,691'. Maximum squeeze pressure was 2,000 psi at 1 cu.ft./minute during displacement.

4.06. Rig and crew idle.

4.07. 12th Day. Held 3,000 psi for 20 minutes with no breakdown. Pulled out and ran in with 6" bit, four drill collars and two junk baskets. Drilled out retainer and found hard cement at 8,670'. Drilled out cement to 8,700'.

4.08. 13th Day. Pulled out of well. Ran back in well with new 6" bit, two junk baskets, casing scraper and four drill collars. Cleaned out to 8,702' and circulated one hour. Pulled out and ran back with 310' of 2 7/8" tubing tail and RTTS retrievable retainer tail at 8,658' and retainer at 8,348'.

4.09. 14th Day. Pressure tested holes at 8,691' with 2,500 psi for 20 minutes. Pulled out of well. Ran in and shot four 1/2" bullet holes at 8,690'. Ran in well with 310' of 2 7/8" tail and a RTTS retainer. Set retainer at 8,382'. Pressure tested holes at 8,690' with 2,500 psi for 20 minutes. Pulled out and ran back to 2,000' with Halliburton tester for WSO test.

4.10. 15th Day. Ran in well from 2,000' with Halliburton tester and set packer at 8,661'. Opened tool at 8:10 am and flowed to Baker tank with 500 psi surface pressure for 20 minutes. Surface pressure dropped to zero. Continued flowing for two hours with light blow. Recovered 360' rise of well fluid. Ran in with 310' of 2 7/8" tail, RTTS retainer. Set retainer at 8,363' and tail at 8,693', pressure up to 3,000 psi and obtained breakdown of 2 cu.ft./minute.

4.11. 16th Day. Equalized 44 cu.ft. of 12% HCL and 3% HF acid at 8,690'. Breakdown rate 17 cu.ft./minute at 2,000 psi. Pumped away 29 cu.ft. Pulled out and ran drillable retainer on wire line and set at 8,650'. Pumped 10 cu.ft. of acid followed by 140 cu.ft. of 108#/cu.ft. latex cement. Displaced 100 cu.ft. of cement at 1,300 psi and 40 cu.ft. at 1,900 psi. Cleared holes with 30 cu.ft. of salt water. Total displacement 324 cu.ft.

4.12. 17th Day. Stabbed into retainer and pressured up to 3,000 psi, bled back to 2,600 psi in 31 minutes. Pulled out of well. Ran in with 6" bit, two junk subs, 7" casing scraper, four 4 3/4" drill collars. Drilled up drillable retainer at 8,650' and cleaned out to 8,708'. Pulled out of well.

4.13. Rig and crew idle.

4.14. 18th Day. Ran Howco retrievable retainer to 8,380'. Set retainer and pumped below retainer at 11 cu.ft./minute with 2,500 psi. Released retainer and pulled out of well. Using Welex electric line, set Howco 7" "Easy Drill" retainer at 8,603. Ran Howco stinger to retainer. Preceeded with 20 cu.ft. and followed by 10 cu.ft. fresh water, mixed and displaced 200 sacks latex cement (280 cu.ft.) 60 cu.ft. past holes at 8,690'. Maximum surface pressure 2,200 psi at 5 cu.ft./minute; final surface pressure 1,800 psi at 2 cu.ft./minut

4.15. 19th Day. Squeeze #1 : preceeded by 20 cu.ft. and followed by 10 cu.ft. fresh water, mixed and overdisplaced 200 sacks of latex cement (280 cu.ft.) 60 cu.ft. past holes at 8,690'; maximum pressure was 2,200 psi.

Squeeze #2 : preceeded by 20 cu.ft. and followed by 10 cu.ft. of fresh water; mixed and overdisplaced 225 sacks (260 cu.ft.) of class "G" cement with 0.75% CFR-2, 60 cu.ft. past holes at 8,690'; maximum pressure 2,800 psi.

Squeeze #3 : preceeded by 20 cu.ft. and followed by 10 cu.ft. fresh water, mixed 125 sacks of class "G" cement (144 cu.ft.) with 0.75% CFR-2 and displaced 96 cu.ft. out holes at 8,690'. Final squeeze pressure 3,000 psi. Released Howco stinger from retainer, backscuttled excess cement out of tubing and started out of well with tubing.

4.16. 20th Day. Finished pulling out of well with Howco stinger. Ran 6" bit, four 4 3/4" drill collars to 8,603'. Drilled out Howco "Easy Drill" retainer and cleaned out to 8,710'. Circulated well and pulled out of well.

4.17. 21st Day. Ran Howco retrievable retainer to 8,381' with tail to 8,691'. Pressured below retainer to 2,500 psi for 20 minutes. Pulled retainer out of well. Using Welex, shot four 1/2" jet holes at 8,689', ran retrievable retainer to 8,381' with tail to 8,691'. Pressured below retainer to 2,500 psi for 20 minutes. Released retainer and pulled out of well.

4.18. 22nd Day. Ran Lynes 7" test tools with three recorders to 8,664' with tail at 8,682'. Opened tool and had medium blow for ten minutes and faint blow throughout remainder of test. Recovered 490' of heavy cement cut water; recorder carriers in test tool were partially plugged with pieces of iron, brass and cement. Ran open end tubing to bridge plug at 8,720'. Backscuttled well and found gas in returns. Circulated well volume down tubing for two hours, working gas out of system. Started out of well.

4.19. 23rd Day. Finished pulling out of well. Ran 7" Baker retrievable plug below Lynes 7" test tools to 8,700' and set retrievable plug. Attempted to set Lynes test tool at 8,660' but would not set. Pulled out of well and found safety joint above Lynes test tool had backed off, leaving test equipment in well. Ran back in well and screwed back into safety joint and started out of well.

4.20. Rig and crew idle.

4.21. 24th Day. Finished pulling out of well and retrieved all test tool equipment and retrievable plug. Reran 7" retrievable plug in well and set at 8,705'. Ran Lynes 7" test tools with three recorders to 8,633' with tail at 8,662'. Made one hour test. Results were as follows:

Recorder #1 (8,615')	Recorder #2 (8,643')	Recorder #3 (8,653')
IH	IH 3808	IH 3812
FH	FH 3768	FH 3808
IF 80	IF 81	IF 81
FF 80	FF 81	FF 81

Recovered 150' rise of hole fluid in 2 7/8" tubing. WSO by Company. Started in well with Baker retrieving tool.

4.22. 25th Day. Ran Baker retrieving tool to 8,651'. Attached to retrievable plug. (Plug had moved up while testing from 8,705' to 8,651'). Retrieved plug from well. Made up drilling assembly (6" bit, two 5" OD junk subs, hydraulic jars and bumper sub and four 4 3/4" OD drill collars). Ran to 8,716'. Ran Triangle noise log from 8,700' to 7,500'. (No indication of noise).

4.23. 26th Day. Displaced 63#/cu.ft. lease brine from well with 350 bbls of 63# polymer completion fluid. Drilled out 7" permanent bridge plug at 8,720'. Circulated well and pulled out of well. Made up 4 1/2" bit on two 3 1/2" OD junk baskets, hydraulic jars and bumper sub and 180' of 2 3/8" drill collars and started in well.

4.24. 27th Day. Drilled up remainder of 7" bridge plug on top of liner at 8,730' and cleaned out to top of 3 1/2" liner at 8,926'. Pulled out of well. Ran Lynes testing tools with 7' of tail to 8,717'. Installed test tree and safety valve on line to Gas Company withdrawal system. Pressure tested surface lines and tree to 4,000 psi.

4.25. 28th Day. Set Lynes test tools at 8,717' with tail at 8,724' opened to Gas Company lines from 9:30 am to 8:00 pm. Pressure increased to 1,000 psi in 4 minutes and continued flowing at 1,000 psi during test. Close in surface pressure was 2,500 psi. Backscuttled gas out of tubing and shut well in.

4.26. 29th Day. Ran Triangle noise log from 8,690' to 7,500'. Log showed gas leak. Released Lynes test tools and pulled out of well. Ran and set Baker model "G" 7" Lok Set retrievable bridge plug at 8,720'. Displaced 63# polymer completion fluid from well with 350 bbls of 63# lease brine. Equalized 4 sacks of sand on plug at 8,720'. Pulled ten stands. Secured well.

4.27. Rig and crew idle.

4.28. 30th Day. Located top of sand at 8,699'. Equalized 15 cu.ft. of 12% HCL and 3% HF acid at 8,691'. Using Welex, set Howco 7" "Easy Drill" cement retainer at 8,605'. Ran Howco stinger to 8,600', displaced 15 cu.ft. of 12% HCL and 3% HF acid to 8,480' inside tubing. Attached stinger to retainer and established breakdown. Preceeded by 10 cu.ft. and followed by 20 cu.ft. of fresh water, mixed and displaced 200 sacks (230 cu.ft.) of class "G" cement with 0.75% CFR-2, 60 cu.ft. past holes at 8,689'. (120#/cu.ft. slurry). Maximum surface pressure reached was 2,800 psi.

4.29. 31st Day. Pumped down tubing 12 cu.ft./minute at 2,800 psi to check previous cement job. Attempted to release stinger from Howco Easy Drill retainer but would not release. Ran Go-International Free Point and found tubing stuck at 6,951'. Made chemical cut at 6,885' (middle of a joint) and pulled out of well. Made up 5 11/16" OD washover shoe on 3 joints 90' of 5 1/2" OD washpipe; hydraulic jars; bumper sub and 4 3/4" drill collars and started in well.

4.30. 32nd Day. Ran washpipe freely to 6,978'. Circulated well and pulled out. Ran in well with 2 7/8" overshot, bumper sub, hydraulic jars and four 4 3/4" drill collars. Attached to top of fish at 6,885' and jarred on fish but would not release. Released from fish and pulled out of well. Ran back in well with overshot and attached to fish. Using Dialog, ran Free Point indicator, found tubing free to 8,598'. Made chemical cut at 8,573'; leaving 4" stub and 1 joint (31') above squeeze tool.

5.01. 33rd Day. Pulled out of well with tubing. (Recovered 1,688' of fish). Made up 5 13/16" OD washover shoe on 60' of 5 1/2" OD wash pipe; hydraulic jars, bumper sub and four 4 3/4" drill collars, and cleaned out to 8,596' and milled up cement from 8,596' to 8,605'. (Top of retainer). Started out of well with tubing dragging.

5.02. 34th Day. Finished pulling out of well with washover shoe. Ran 2 7/8" overshot with hydraulic jars, bumper sub, and four 4 3/4" OD drill collars to top of fish at 8,573'. Attached to fish but were unable to jar free. Released overshot and pulled out of well. Made up 5 13/16" OD mill shoe on 60' of 5 1/2" OD washpipe, hydraulic jars, bumper sub and four 4 3/4" drill collars. Ran to 8,605' and milled for three hours.

5.03. 35th Day. Finished milling retainer at 8,605'. Pulled out of well with washover shoe. Ran 2 7/8" overshot, bumper sub, jars and four 4 3/4" drill collars to top of fish; found at 8,604'. Attached overshot to fish and pulled out of well. Retrieved remainder of tubing and stab-in cementing tool.

5.04. Rig and crew idle.

5.05. 35th Day. Ran 4 13/16" OD mill shoe on 6' cylinder to 8,640'. Milled over and retrieved Halliburton cement retainer. Ran Howco 7" retrievable retainer with 60' of tail. Set retainer and obtained breakdown into WSO holes at 8,689'.

5.06. 36th Day. Pulled out of well with Howco retrievable retainer. Using Welex electric line, set Howco 7" "Easy Drill" cement retainer at 8,585'. Ran Howco stinger to retainer and pumped below retainer 6 cu.ft./minute at 2,000 psi. Preceeded by 50 cu.ft. and followed by 10 cu.ft. of fresh water, mixed 200 sacks (230 cu.ft.) of class "G" cement with 0.75% CFR-2 and displaced 117 cu.ft. into holes at 8,689'. (Maximum squeeze pressure = 3,000 psi). Backscuttled excess cement out of well and pulled stinger out of well. Made up 6" bit on two 5" OD junk subs and four 4 3/4" OD drill collars and started in well.

5.07. 37th Day. Drilled up cement retainer at 8,585'. Drilled out cement to 8,691' (bottom of cement). Displaced 63#/cu.ft. lease brine from well with 350 bbls of 63#/cu.ft. polymer completion fluid and started out of well.

5.08. 38th Day. Pulled out of well with drilling assembly. Ran 30' of tubing tail below Howco retrievable retainer and set retainer at 8,668'. Pressured annulus to 1,500 psi and tubing to 2,500 psi. Tubing pressure dropped 300 psi in 3 minutes then remained at 2,100 psi.

5.09. 39th Day. Displaced 63#/cu.ft. polymer completion fluid from well with 63#/cu.ft. lease water. Set Howco retrievable retainer and obtained breakdown of 6 cu.ft./minute with 2,900 psi. Spotted and displaced 30 cu.ft. of 12% HCL and 3% HF acid out of holes at 8,689' and obtained breakdown with 3,000 psi. Pulled out of well with retrievable retainer. Using Welex wire line, set Howco 7" drillable retainer at 8,580'. Ran Howco stinger to retainer and obtained breakdown at 11 cu.ft./minute with 3,000 psi. Preceeded by 10 cu.ft. and followed by 40 cu.ft. of fresh water, mixed 200 sacks of class "G" cement with 0.75% CFR-2 (230 cu.ft.) and displaced 207 cu.ft. out holes at 8,689' before reaching 3,000 psi surface pressure. Released from retainer leaving 3,000 psi under retainer. Backscuttled tubing and started out of well.

5.10. 40th Day. Finished pulling out of well with stinger. Made up 6" bit on two 5" OD junk subs and four 4 3/4" drill collars. Drilled up retainer at 8,580' and drilled out cement to 8,600'. Circulated well and pulled ten stands and secured well.

5.11. Rig and crew idle.

5.12. 41st Day. Finished drilling cement to 8,692'. Circulated well and pulled out with bit. Ran Howco 7" retrievable retainer to 8,670' with tail to 8,700'. Set retainer and pressured below retainer 2,300 psi for 25 minutes with no pressure loss. Ran Triangle noise log from 8,700' to 2,500' and found high noise level from 8,700' to 5,400'.

5.13. 42nd Day. Ran retrievable retainer back to 8,670' with tail to 8,700'. Equalized 30 cu.ft. of 12% HCL and 3% HF acid, preceeded and followed by 50 cu.ft. of fresh water from 8,700' to 8,560'. Pressured acid for two hours with no loss. Pulled out of well with retrievable retainer. Using Dresser Atlas, shot four 1/2" bullet holes at 8,687'. Reran Howco 7" retrievable retainer to 8,300' with tail to 8,331'. Set retainer and displaced acid into holes at 8,687' at 16 cu.ft./minute with 3,000 psi.

5.14. 43rd Day. Pulled out of well with retrievable retainer. Using Dresser Atlas Electric line, set 7" "Easy Drill" retainer at 8,587'. Ran Howco stinger to retainer on tubing. Preceeded by 10 cu.ft. of fresh water, mixed 500 sacks (690 cu.ft.) of latex cement and displaced 614 cu.ft. out the holes at 8,687' before reaching 3,000 psi surface pressure. Released stinger from retainer and backscuttled excess cement from well. Pulled out of well. Made up 6" bit on two 5" OD junk subs and four 4 3/4" drill collars and started in well.

5.15. 44th Day. Finished running in well with 6" bit and drilling assembly. Started drilling retainer at 8,527'. Pulled five stands and secured well.

5.16. 45th Day. Finished drilling retainer and cement to 8,692'. Cleaned out to 8,713' and circulated well. Pulled out with drilling assembly. Ran 7" Howco retrievable retainer to 8,670' with tail to 8,700'. Set retainer and pumped into holes at 8,687' with 2 cu.ft./minute at 3,000 psi. Released retainer and started out of well.

5.17. 46th Day. Finished pulling out of well with retrievable retainer. Using Dresser Atlas, set 7" Howco "Easy Drill" retainer at 8,650'. Ran Howco stinger on 2 7/8" tubing to retainer. Preceeded by 10 cu.ft. of fresh water, mixed 50 sacks (57 cu.ft.) of class "G" cement with 0.75% CFR-2 and displaced 10 cu.ft. into holes at 8,687' before reaching 3,000 psi squeeze pressure. Backscuttled excess cement from well and started out of well.

5.18. Rig and crew idle.

5.19. 47th Day. Finished pulling out of well. Ran 6" bit on two 5" OD junk subs and four 4 3/4" OD drill collars to 8,650'. Drilled up retainer at 8,650' and cement to 8,689'. Circulated well and pulled out with drilling assembly. Made up 7" retrievable retainer on 2 7/8" tubing and started in well.

5.20. 48th Day. Set Howco 7" retrievable retainer at 8,670' with tail to 8,700'. Pressure tested holes at 8,687' at 2,300 psi for one hour with no loss. Ran Triangle Audio Analyzer Log from 8,700' to 7,500'. (Showed no noise in well). Ran Baker retrieving tool on 2 7/8" tubing to 8,710'. Displaced lease water from well with 67#/cu.ft. polymer completion fluid.

5.21. 49th Day. Cleaned out cement and sand from 8,709' to retrievable bridge plug at 8,720'. Attached to bridge plug and pulled out of well but did not retrieve bridge plug. Ran Baker retrieving tool on hydraulic jars, bumper sub and four 4 3/4" drill collars; attached to retrievable bridge plug and started out of well.

5.22. 50th Day. Pulled out of well but did not retrieve bridge plug. Ran 2" overshot with new hydraulic jars, bumper sub and four 4 3/4" OD drill collars. Attached to retrievable bridge plug but hydraulic jars would not operate. Attempted to work bridge plug loose with no success. Pulled out of well with overshot. Made up 5 3/4" OD x 8' washover shoe on bumper sub, new hydraulic jars and four drill collars. Started in well.

5.23. 51st Day. Cleaned out and backscuttled on top of retrievable plug at 8,726'. Pulled out of well with washover shoe. Ran overshot on bumper sub, hydraulic jars and four 4 3/4" OD drill collars and attached overshot to control mandrel of retrievable plug at 8,723'. Jarred for three hours but bridge plug would not come free. Released overshot from bridge plug.

5.24. Rig and crew idle.

5.25. Rig and crew idle.

5.26. Rig and crew idle.

5.27. 52nd Day. Released overshot from retrievable bridge plug and pulled out of well. Ran new Baker retrieving tool on bumper sub, hydraulic jars and four 4 3/4" drill collars. Attached to retrievable bridge plug and attempted to release bridge plug without success. Pulled retrieving tool out of well. Made up Midway fishing tools, carbide tipped mill shoe (5 3/4" OD x 4 7/8" ID) on bumper sub, hydraulic jars and four 4 3/4" OD drill collars and started milling over retrievable bridge plug at 8,726'.

5.28. 53rd Day. Continued milling on retrievable bridge plug for five hours. Pulled out of well and ran new 5 3/4" x 4 7/8" mill shoe on milling assembly. Continued milling on retrievable bridge plug at 8,726'.

5.29. 54th Day. Continued milling on retrievable bridge plug with mill #2 for four and half hours. Ran new mill shoe #3 on milling assembly and milled on retrievable plug at 8,726' for five hours.

5.30. 55th Day. Continued milling with mill #3 for five hours. Pulled mill out of well and found mill in good condition. Reran mill #3 and continued milling.

5.31. 56th Day. Continued milling with mill #3 for thirteen hours. Circulated well and started out of well.

6.01. Rig and crew idle.

6.02. 57th Day. Finished pulling out with mill shoe #3. Made up mill shoe #4 on milling assembly and milled from 8,726' to 8,728' over bridge plug. Started out of well with mill shoe #4.

6.03. 58th Day. Finished pulling out of well with mill shoe. Ran 2" overshot on hydraulic jars, bumper sub and four 4 3/4" OD drill collars to top of retrievable plug. Attached to plug and jarred plug loose. Pulled out of well and recovered remainder of tool. Made up 196' of 2 3/8" tubing tail below 7" casing scraper on 2 7/8" tubing and cleaned out to 8,730' with scraper and tail to 8,926'. Circulated well and started out of well.

6.04. 59th Day. Pulled out of well with scraper and 2 3/8" tail. Ran Lynes 7" test tool with 8' of tail to 8,650' with tail to 8,658'. Pressure tested surface flow lines and manifold to 3,000 psi.

6.05. 60th Day. Set Lynes test tool and opened flow into Gas Company withdrawal system for four hours. Closed tool, backscuttled gas out of tubing and secured well for noise log.

6.06. 61st Day. Ran Triangle noise log from 8,627' to 7,500'; showed no noise. Released Lynes test tool and pulled out of well. Using McCullough electric line ran Otis 7" permatrieve packer at 8,650'.

6.07. 62nd Day. Made up Otis Seal Assembly on 2 7/8" tubing and started in well, breaking off used collars, cleaning the tubing pins and installing inspected collars.

6.08. Rig and crew idle.

6.09. 63rd Day. Finished changing and Baker sealing tubing collars while going in well. Landed locator latch in Otis packer and pressure tested annulus with 1,500 psi for 20 minutes. Released locator latch from Otis permatrieve and pulled out of well. Made up Otis locator latch with three seals on 2 7/8" x 10' Camco Blast joint, 2 7/8" Camco 2.25" "D" No-Go nipple, 2 7/8" x 20' Camco Blast Joint, 2 7/8" Camco annular flow safety system, 1 joint of 2 7/8" tubing and 2 7/8" Camco MMG mandrel with DCRT valve in place and started hydrotesting tubing with 5,000 psi for 1 minute while going in well.

6.10. 64th Day. Finished hydrotesting tubing in well. Attached locator latch to Otis Permatrieve packer at 8,650'. Pulled 25,000# over tubing weight and set 10,000# down on packer. Spaced out tubing and relanded latch in packer and pulled 25,000# over tubing weight on latch; latch had 5,000# set down weight on it when doughnut was in place. Installed back pressure valve in doughnut; removed BOPE and installed tree.

6.11. 65th Day. Pressure tested doughnut, seal flange and tree to 5,000 psi for two hours. Removed back pressure valve from doughnut and closed well in. Installed blind flanges on wing valves. Released rig.

FILE
well history

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company **Field** Aliso **County** Los Angeles
Well Standard Sesnon #11, **Sec.** 28, **T** 3N, **R** 16W, S.B. **B. & M.**
A.P.I. No. 370-0763 **Name** R. D. Phillips (Person submitting report) **Title** Agent (President, Secretary or Agent)
Date June 22, 19 93

Signature J. A. Hemmerly for R. D. Phillips

P. O. Box 3249 Los Angeles, CA 90051-1249 (213) 244-2687
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1993	
04/19	Move in - rig up. Started well operations at 11:00 a.m. Mixed and pumped 20 Bbls of super-saturated sized salt. Displaced with 54 Bbls of 3% KCl with no pressure build up.
04/20	Mixed 30 Bbls of salt water, 20 Bbls of super-saturated sized salt. Pumped 15 Bbls of salt water ahead of 20 Bbls of super saturated sized salt, followed with 15 Bbls of salt water. Displaced with 35 Bbls of KCl with no pressure build up. Installed back pressure valve. Nippled down xmas tree. Nippled up BOPE. Removed back pressure valve.
04/21	With 700 psi on tubing and 0 psi on casing, pumped 5 Bbls of HEC/KCl water ahead of 22 Bbls of 3 ppg 20-40 sand. Displaced with 58 Bbls of KCl. Couldn't bridge off perfs. Pumped 15 Bbls of HEC/KCl ahead of 22 Bbls of 3 ppg 12-20 sand. Displaced with 43 Bbls of KCl. Perfs plugged with 1000 psi. Pumped an additional 8 Bbls of KCl to clear tubing. Tested blind rams, pipe rams and choke manifold to 3000 psi. Tested annular preventor to 2100 psi.
04/22	With 40 psi on tubing an 0 psi on casing, worked seals out of packer. Filled well with 3% KCl. Mixed 500 Bbls of 3% KCl. Pulled 2-7/8" tubing and seals. Ran in well with bit and scraper, tight spot at 2375'. Ran scraper to 6086'.
04/23	Ran in well with bit and scraper to 8650'. Pulled out of well. Ran in well with Otis retrieving tool. Worked Otis packer free. Pulled packer to 5000'.

D.O.G. 7/2/93

OG103 (6/91/GSR1/5M)

04/24 Finished pulling out of well. Laid down packer. Attempted to run gyro survey, but equipment failed. Ran kill string to 3000'. Ran in well with sinker bar on wireline and tagged fill at 8790'. Dumped 9 cu.ft. of 16-20 gravel down tubing.

04/26 Opened well. Zero psi on tubing and casing. Tagged sand at 8712'. Ran gyro survey from 8675' to surface. Filled well with 160 Bbls of 3% KCl fluid. Pressure tested sand plug to 1500 psi. Pressure dropped to zero psi in 5 minutes. Re-tagged sand at 8718'. With tubing tail at 8715, mixed and pumped 28.5 cu.ft. of Class G cement. Pulled up to 8700'. Backscuttled two tubing volumes. Pulled up to 8206'. Secured well.

04/27 Opened well. Zero psi on tubing and casing. Tagged cement at 8702'. Tested 7" casing and cement plug to 1500 psi for 20 minutes. Perforated four 1/2" holes from 8664'-8665'. Ran 498' of 2-7/8" tubing below fullbore packer on 2-7/8" tubing to 8642'. Set packer. Pressure casing to 1500 psi. Pressure tubing and holes to 3000 psi. Pressure held with no break down.

04/28 Opened well. Set packer with tubing tail at 8663'. Spotted 50 cu.ft. of 12% HCl/3% HF acid. Established breakdown. Pumped away acid at injection rate of 1.5 BPM and 1275 psi. Pulled tubing tail to 8522' and set packer. Mixed and pumped 30 cu.ft. of matrix cement followed by 30 cu.ft. of Class G cement. Squeezed 25 cu.ft. out holes. Established squeeze pressure of 3100 psi and held.

04/29 Bled 2900 psi from tubing. Unset packer and pulled out of well with 2-7/8" tubing and packer. Ran in well with 6" bit, four 4-3/4" drill collars on 2-7/8" tubing. Tagged cement at 8568'. Drilled out cement from 8568' to 8665'. Pressure tested casing to 3000 psi and held for 20 minutes. Pulled up to 8558'. Secured well.

04/30 Ran in well to 8665'. Drilled cement from 8665' to 8703'. Tagged cement cap at 8707'. Pressure tested 7" casing to 3000 psi for 20 minutes. Drilled cement from 8707' to 8734' at 3000 psi for 20 minutes. Drilled cement from 8707' to 8734' (top of liner). Pulled out of well to 3988'. Rig down for repairs.

05/03 Pulled kill string out of well. Laid down drill collars. Ran in well with six 3-1/8" drill collars to 2856'. Tubing plugged. Pulled out of well. Ran in well with 4-1/8" mill. Milled and cleaned out from 8763' to 8766'. Circulated well clean.

05/04 Cleaned out cement, sand and rubber from 8751' to 8763'. Pulled tubing and 4-1/8" bit out of well. Ran in well with 4-1/8". Milled and cleaned out form 8763' to 8766'. Circulated well clean. Pulled up to 8725'.

05/05 Ran in well to 8766′ - could not mill past 8767′. Pulled out of well. Laid down 4-1/8" mill. Ran in well with 4" wash over shoe and one junk sub. Washed over from 8767′ to 8797′. Lost circulation. Pulled tubing to 8640′.

05/06 Pulled out of well and laid down 4" wash over shoe. Ran in well with 4" over shoe, junk basket, and Cavins sand pump. Pumped sand from 8797′ to 8820′. Pulled tubing to 3100′.

05/07 Pulled out of well. Laid down junk basket and sand pump. Found packer rubber in junk basket. Rigged up Dialog. Ran in well to 8710′ with 5.75" gauge ring. Set Otis 7" 29# BWB packer on wireline at 8640′. Internally pressure tested production string in well to 4000 psi. Stabbed into packer with seal assembly. Pulled 20,000 lbs over string weight to check latch. Landed tubing with 10,000 lbs compression. Filled casing. Tested casing, packer and seal assembly with 1500 psi for 20 minutes.

05/08 Installed back pressure. Nippled down BOPE. Installed xmas tree. Tested xams tree to 5000 psi. Removed back pressure valve. Released rig at 12:30 p.m.

SUBMIT IN DUPLICATE
RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator: Southern California Gas Company **Field:** Aliso Canyon **County:** Los Angeles
Well: Standard Sesnon 14 **Sec.:** , **T:** , **R:** , **S.B.B.& M.**

API No: 037-00766 **Name:** J Mansdorfer (Person submitting report) **Title:** Agent (President, Secretary or Agent)

Date: July 30, 1998 **Signature:** for J Mansdorfer

P.O. Box 3249, Los Angeles, California, 90051-1249 (Address) 213-244-5470 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
5/20/98	Remove laterals. Move in rig and equipment. Set up and tie down hoist. Blew down tubing, casing and surface casing. Pumped 160 barrels of treated lease water down casing. Well did not fill. Install back pressure valve and nipple down tree. Install class II BOPE. Set up working floor. Secure well and equipment.
5/21/98	Open well and test BOPE to 2000psi.Unscrew lock downs and unland tubing.Remove tubing hanger and release from packer 8845'. Pull out of hole and lay down Gas lift mandrels and production equipment. Made up 7" all weight scraper and bumper sub. Measure in well. Tight spot at 626'.
5/22/98	Open well no pressure. Continue running in hole with 7" scraper to top of liner at 8062'. Rig up Scanalog well head inspection unit and inspect tubing out of hole.(153 jts yellow and 99 jts blue). Lay down 26 joints of 2-3/8" CS Hydrill (yellow band tubing). Tubing was pulled on odd break.Ran kill string. Secure well and equipment.
5/26/98	Open well no pressure. Pumped 15 barrels. Pull out of hole with kill string.Rig up Halliburton and ran casing inspection log from 8062' to surface. Rig down loggers. Ran kill string to 1500'. Secure well and equipment.
5/27/98	Open well pull out of hole with kill string. Made up Baker 7" bridge plug and ran in to 8000' and set. Secure well and equipment. Change out rig at Dawson request.
5/29/98	Rig up and tie down hoist. Set up working floor. Pull out of hole with tubing. Make up Full bore packer and ran in to 662' and set. Test casing from 662' to 8000' at 1500 psi with gas. (Charted test overnight with no bleed off). Secure well and equipment.
6/1/98	Open well to Gas Co. system. Bled test gas. Release Packer at 662', Pull out and lay down. Make up retrieving head and ran in to hole and open bypass in Bridge plug at 8000'. Bled Gas to system. Kill well with 40 barrels of treated lease water. Well did not fill. Release bridge plug and pull out of hole to 1000'. Secure well and equipment.
6/2/98	Bled 1150 psi from well. Pull to 734' and set bridge plug. Pull out and pick up test packer. Ran in and set at 665'. Fill casing above packer, would not test. Pull out and lay down packer. Ran in with retrieving tool and tighten bridge plug at 734'. Pull out and reran packer to 665'. Set packer and test to 1000 psi. Pull up to 200' and reset. test casing from 0 to 200' at 1400 psii for 1 hour, OK. Bleed gas to system. Remove test packer. Ran in with retrieving tool and engage bridge plug at 734'. Open unloader. Secure well and equipment.
6/3/98	Bleed down well. Open well. Release bridge plug and pull out. Kill well with 100 barrels of HEC 10 in 2% KCl and 100 barrels of lease water with corrosion inhibitor and biocide. Ran in and set bridge plug at 3100'. Open unloader and vent to baker tank. Secure well and equipment.
6/4/98	Release from bridge plug. Pull out and lay down retrieving tool. Nipple down BOPE. Remove tubing head and seal flange. Pull packing. Make up 3-1/2" drill pipe pup joint and 4-3/4" drill collar with 7" spear. Engage casing and attempt to unland casing with rig to 250,000#. Set up casing jacks. Unland casing at 250,000#. Remove slips. Release casing bowl at 622'. Release spear and lay down spear and collar. Pull and lay down 7"-29# casing. Secure well and equipment.
6/5/98	Continue laying down casing from 622'. Lay down casing bowl. Load out casing equipment. Secure well and equipment.

Date	
6/8/98	Rig up casing tongs. Measure and pick up 15 joints of 7"-23# Casing. Casing is J-55 with N-80 joint on top. Work over casing stub at 622' with lead seal overshot bowl. Pull to 60,000# to set seal. Land casing in slips with with 45,000#. Rig out tongs. Pressure 7" casing to 1500psi with Gas from system and put on chart recorder.Secure well and equipment. Left test pressure on well while rig was down waiting on fabrication of wellhead components. Test was solid for duration of test.
6/12/98	Bled test gas to Gas Co. system. Set up saw and cut off 7" casing as required to fit head. Nipple up seal flange, tubing head and BOPE with PGSR. Test tubing head and seal flange to 5000 psi. Rig up working floor and tubing equipment. Ran in hole to 1500' with retrieving tool. Secure well and equipment.
6/15/98	Open well, continue running in well to 3000'. Install rubber in PGSR. Pump in well with 30 barrels lease to circulate over bridge plug. Release bridge plug and pull out of hole. Lay down bridge plug and load out tools. Make up seal assembly and 26 joints of 2-3/8" EUE tubing.Test to 5000 psi. Pull out and pick up GLM. Secure well and equipment.
6/16/98	Open well. Rig up Ace testers. Tested tubing and production equipment in hole at 5000 psi. Ran in to 8840'. Latched into packer. Release from packer and space out. Test pup joints and hanger. Stab into packer and land with 12,000# compression on packer. Screw in studs. Secure well and equipment. Remove BOPE and install tree. Release rig.

JB Lane's copy

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well "SFZU" SS #2, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00755 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date September 29, 1983

Signature J. P. Anand

P.O.Box 3249, Terminal Annex, Los Angeles, Ca 90051 (213) 689-3925
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99015 was issued to repair shoe leak.
1983	
6-27	Day 1. Moved SPS Rig #39 from Ventura to SS#2 location.
6-28	Day 2. Rigged up SPS #39. Circulated gas out of polymer completion fluid. Installed back pressure valve in doughnut. Removed Xmas tree and installed 8" x3000 psi Class III BOPE. Installed flanged lines from well head to choke manifold, and kill system.
6-29	Day 3. Finished installing rigid lines to well head and rigging up. Re-installed back pressure valve in doughnut and pressure tested BOPE with water as follows: Manifold and access lines 3000 psi for 20 min.; blind rams 3000 psi for 20 min., pipe rams 3000 psi for 20 min.; hydril 2500 psi for 20 min. Test witnessed by DOG (Miss Fulco). Removed back pressure valve. Unlanded doughnut. Released latch from Otis permatrieve packer at 8500'. Pulled out laying down safety system. Made up Otis pulling tool on 2-3/8" tubing and started back in well.
6-30	Day 4. Attached Otis pulling tool to packer at 8500' released packer and pulled out of well, retrieving packer. Ran Baker Model "N" wireline bridge plug on McCullough electric line to 8500' and set at 8500'. Using ½" bullet gun, shot 12 holes from 8456'-55'. Ran 400' of 2-3/8" tubing tail on 5" Johnston retrievable retainer to 8500'. Displaced 300 bbls of 64#/cu.ft. completion fluid from well with 300 bbls of lease salt water, set retainer at 8060' with tail at 8460'. Obtained breakdown at 3 cu.ft. per minute at 2000 psi.
7-1	Day 5. Released Johnston tool. Equalized 40 cu.ft. of 12% Hcl and 3% HF acid at 8455'. Set tool and displaced 35 cu.ft. into perforations (8455'-56') at 8 cu.ft./min at 2000 psi. Pulled out with retrievable retainer. Ran Baker model "K" wireline cement retainer on McCullough electric line and set at 8380'. Ran Baker stinger to 8380' tested retainer. Preceded by 25 cu.ft. of 6% Hcl and 1½% HF acid mixed 57 cu.ft. of neat "G" cement with .5% D31 & .6% D19 and displaced all cement past holes at 8455'. Maximum

pressure 2000 psi. Squeeze #2 mixed 57 cu.ft. of neat "G" with .5% D31 & .6% D19 and displaced 53 cu.ft. out of holes at 8455' before reaching 3000 psi final pressure. Released from retainer backscuttled and started out with stinger.

7-2 Day 6. Finished pulling out with Baker stinger. Made up 3-3/4" O.D. mill on 2-3/8" tubing. Milled retainer at 8380' to 8386'. Pulled up to 7550'.

7-5 Day 7. Ran in well to 8386' & milled cement & retainer down to 8435'. Pulled out of well. Made up mill #2. Ran in well to top of liner.

7-6 Day 8. Filled well with 1.5 bbls. Ran in well to 8436'. Milled cement to 8490'. Circulated well clean. Pulled out of well. Made up & ran in well with Johnston retrievable retainer with 400' of 2-3/8" tubing tail to 8488'. Set retainer & pressure tested to 2200 psi. Pulled out of well. Made up 3-3/4" O.D. mill & ran in well to 2000'.

7-7 Day 9. Filled well with 3 bbls of salt water. Ran in well to 8490'. Changed over from salt water to polymer completion fluid using 497 bbls. Milled bridge plug and cement from 8496'. Pushed & milled to 8525'. Pulled out of well. Made up new 3-3/4" O.D. mill and junk sub, ran in well to 3000'.

7-8 Day 10. Filled well with 1½ bbls polymer completion fluid. Ran in well to 8525'. Milled to bottom of liner at 8806'. Circulated well for two hours. Pulled up to top of liner.

7-9 Day 11. Ran in well to 8806'. Circulated well for 2 hours. Pulled out of well. Made up Lynes 5" test tools and started in well.

7-11 Day 12. Set Johnston test tools at 8420' with tail to 8423'. Opened tool for 6 hours but fluid did not unload from well. Gas blow from well never was more than a light blow. Gas reached surface in 3 hours. Backscuttled well with 45 bbls to fill tubing (46 bbls total volume). Made up Lynes 5" test tools on 843' of 2-3/8" tubing crossed over to 2-7/8" tubing. Started in well with new test tools.

7-12 Day 13. Set Lynes test tool at 8421'. Shot fluid level in empty tubing. Opened tool at 8:30 a.m., shot rising fluid levels to 6800' in ½ hour intervals. Well would not unload past 6800'. Released Lynes test tools & backscuttled gas from well and pulled out with tools. Made up 4-1/8" bit & 5" 18# casing scraper and started in well.

7-13 Day 14. Ran 4-1/8" bit and 5" casing scraper to 8787' and cleaned out fill to 8806'. Pulled out of well. Made up Lynes 5" test tool on 960' of 2-3/8" tubing, crossed over to 2-7/8" tubing and installed 6 - 2-7/8" Camco Gas lift mandrels from 7500' to surface. Set test tool at 8427' with 10,000# on tool when doughnut landed in tubing head. Closed pipe rams and pressured doughnut to 3,000 psi. Closed valve to lock rams closed. Pressure tested injection and withdrawal lines to 3,000 psi.

7-14 Day 15. Displaced 383 bbls. of polymer completion fluid from well using gas lift equipment in 15 hours. Closed well in.

7-15 Day 16. Continued trying to displace polymer completion fluid from well. Shot fluid level in tubing, found fluid at 5500'. Shot fluid level in casing, found fluid at 7164'. Closed well in, shut rig down for gas lift equipment repairs.

7-16 Day 17. Using Archer Reed wireline, installed new gas lift valve in mandrel at 5508'. Gas still communicated from casing to tubing. Installed dummy valves at 2161' and 4073'. Gas still communicated from casing to tubing. Pressured down tubing 2200 psi. Did not have communication from tubing to casing. Ran 2-½" impression block on wireline, found fluid level in tubing at 7140'. Attempted to lift polymer completion fluid from tubing by injecting down casing. Received gas out of tubing at 1300 psi casing pressure. Hooked well up to inject down tubing for weekend.

7-18 Day 18. Increased surface pressure from 2300 psi to 3000 psi but unable to inject gas down tubing into Sesnon zone.

7-19 Day 19. Open tubing to Baker tank and left well open 12 hours. Pressure fell from 2600 psi to "0" in 1 hour and built back to 100 psi for 9 hours. Then to 75 psi for 2 hours. Casing pressure fell from 1300 psi to 1100 psi during flow interval. Prepared to inject down tubing.

7-20 Day 20. Injected gas down annulus and attempted to unload well. Did not displace any fluid but produced gas from tubing. Found fluid level in tubing at 6841'. Using Baker wireline truck attempted to remove gas lift mandrels #3, #4, #5. Unable to remove because of incorrect tool.

7-21 Day 21. Using Baker wireline truck removed valve #3 at 5508', and replaced with dummy valve. Attempted to remove valve #4 at 6468' and valve #5 at 7292' with no success. Shut down to change tools.

7-22 Day 22. Using Baker wireline attempted to remove gas valves from mandrels #4 & #5 without success. Using 355 bbls. of 63#/cu.ft. polymer completion fluid, displaced gas from well. Released Lynes test tool and pulled out laying down 6 KBMG mandrels. Made up new Lynes test tool on 843' of 2-3/8" tubing crossed over to 2-7/8" and ran 4 new 2-7/8" Camco "MMG" gas lift mandrels at 2605', 4789', 6497' and 7527'. Set Lynes packer at 8437' with 10,000# on tool when doughnut was in place. Closed pipe rams and pressured doughnut to 3000 psi & locked pressure on doughnut.

7-23 Day 23. Displaced 278 bbls of polymer completion fluid from well with gas. Opened injection down tubing to Gas Company injection line back to Gas Company manifold for shift personnel to operate.

7-25 Day 24. Released 2100 psi gas pressure from tubing and unloaded 22 bbls of polymer completion fluid from well in 5 hours. Tubing dried up and casing pressure communicated with tubing. Pressure would not transmit from tubing to casing. Blew down casing and tubing. Shot fluid levels. Tubing showed fluid at 7204' and casing 7530'. Repressured tubing for night to 2200 psi.

7-26 Day 25. Released tubing pressure from tubing. No fluid entered tubing. Pumped 40 bbls of polymer completion fluid down tubing. Gas lifted polymer from tubing. Hooked up Gas Company injection line to well and started on 3000 psi at 6:00 p.m.

7-27 Day 26. Continued with injection pressure of 3,000 psi through 20/64" bean. Blew pressure down at 10:00 a.m. to correct collar leak on tubing. Recovered 8 bbls of polymer completion fluid. Re-pressured tubing. Well took small amount of gas from 4 p.m. till 4:45 p.m., and from 6:30 till 6:45 p.m. No additional injection to 6 a.m. 7-28-83.

7-28 Day 27. Bleed gas from tubing. Dropped bar and opened backscuttle valve at 8435'. Displaced remaining gas from well with 278 bbls of 63#/cu.ft. of polymer completion fluid. Pulled out laying down Camco gas lift mandrels and Lynes test tools. Made up 4-1/8" bit on 943' of 2-3/8" tubing tail and cleaned out to 8806'. Started out with tubing.

7-29 Day 28. Using NL McCullough 2-½" jet guns shot (2) ½" jet holes per foot 8790'-8655', 8617'-8575', 8558'-8550'. Ran 2000' of 2-7/8" tubing to secure well.

7-30 Day 29. Made up 5" 18# Lynes test tools with (2) outside and (1) inside 72 hour recorders on 896' of 2-3/8" tubing. Tail at 8432' with packer at 8416'. Pressure tested lines to tree and Gas Co. withdrawal system at 3000 psi. Closed well in.

8-1 Day 30. Set Lynes packer at 8416' & opened tool at 7:20 a.m. Flowed well to Baker tank till 2:00 p.m. Produced 17 bbls polymer completion fluid at 1050 psi tubing pressure on 16/64" choke. Turned to withdrawal line at 2:00 p.m. & flowed well till 6:00 a.m. Rate 3MMCF per/day on 24/64" choke w/900 psi tubing pressure.

8-2 Day 31. Flowed well to Gas Company withdrawal line until 10:00 p.m. at 3MMCF/day with tubing pressure of 900 psi. Shut well in at 10:00 p.m. and secured for night. 6:00 a.m. tubing pressure 2200 psi.

8-3 Day 32. Rigged up NL McCullough and ran Audio analyzer log from 8400' to surface. No gas movement. Rigged down McCullough. Killed well. Pulled out of well. Ran 4" O.D. gauge ring to 8520'. Ran & set Otis permadrill packer at 8500'. Rigged down McCullough. Ran in well with 2 seals & locator on 2-3/8" & 2-7/8" tubing to top of liner.

8-4 Day 33. Ran in well to 8500'. Stabbed into packer & tested to 1500 psi for 20 minutes. Pulled out of well. Ran in well w/ production equipment, 2-3/8" & 2-7/8" tubing. Applied Baker seal & Hydrotested to 5000 psi. Landed tubing w/6000# on packer. Pulled 15,000# over weight of tubing to check latch. Landed tubing & installed back pressure valve.

8-5 Day 34. Removed BOPE. Installed Xmas tree. Pressure tested tree to 5000 psi with oil. Changed over from polymer fluid with 350 bbls. lease salt water. Tightened wellhead bolts. Installed blind flanges & closed all valves. Released rig at 3:00 p.m. 8-5-83.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well Standard Sesnon #24, Sec. 29, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-00775 Name J. W. Gourley (Person submitting report) Title Agent (President, Secretary or Agent)
Date April 2, 19 85

Signature J W Gourley

PO Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO No.: 99434 was issued to repair casing shoe leak
1985	
1-14	Loaded out rig from Calkins #3 and moved to SS-24 at Aliso Canyon. Unloaded rig.
1-15	Finished rigging up. Pressure in tubing 1700 psi, casing 900 psi. Mixed 100 bbls. of high viscosity polymer completion fluid. Pumped down tubing with no returns.
1-16	Pressure in casing 500 psi. Pumped 180 bbls. polymer completion fluid down tubing and circulated gas out of well. Lost one bbl. of fluid per minute. Mixed 60 bbls. high viscosity polymer completion fluid and pumped down tubing. Installed back pressure valve. Removed xmas tree and installed 9" 5000 psi BOPE. Tested blind rams, pipe rams and manifold to 3000 psi. Tested Hydril to 2300 psi. Test approved by DOG.
1-17	Attempted to unlatch from packer. Rigged up logging truck. Ran free point to 8700' - tubing free down to packer. Cut 2-7/8" tubing at 8640'. Loaded out logging truck. Filled well with 85 bbls. Pulling tubing out of well.
1-18	Finished pulling out of well. Made up Kelly. Picked up four 4-3/4" drill collars. Made up fishing tools and ran in well to 8645'. Latched onto fish. Worked latch in packer. Pulling out of well.

1985

1-19 Finished pulling out of well. Overshot came off of fish. Changed out jars. Ran in and latched onto fish at 8645'. Jarred on fish and attempted to release from packer. Released overshot and started out of well.

1-21 Pulled out of well. Picked up three joints of 5-3/4" wash pipe. Ran in well, washed over fish from 8645'-8700'. Circulated well clean and pulled up to top of fish.

1-22 Ran in well and washed over fish to 8700' - no fill. Pulled out of well. Laid down wash pipe. Made up fishing tools and ran in to 8645'. Latched on fish and released same from packer. Pulled out of well. Laid down all fish and fishing tools. Made up packer retrieving tool.

1-23 Finished running in well to 8700'. Latched into packer. Released packer and pulled out of well. Laid down packer. Ran in well with 150' 2-3/8" tubing tail to 9030'. Circulated polymer fluid out with lease salt water. Rigged up pump truck and pumped 48 sacks of sand down tubing. Pulled up to 8660'.

1-24 Ran in and located top of sand at 8743'. Cleaned out sand to 8750'. Backscuttled clean. Pulled out of well. Using Hercules wireline, capped sand with 10' of cement, top at 8740'. Made up 7" retrievable retainer with 420' 2-7/8" tubing tail. Ran in well, set with tail at 8729'. Equalized 75 cu.ft. 12% HCl 3% HF acid. Obtained breakdown through holes at 8729' of 2.5 cu.ft. per minute at 3000 psi.

1-25 Rigged up pump truck. Pumped 75 cu.ft. 12% HCl 3% HF acid. Breakdown at 4.5 cu.ft. per minute. Pumped 75 cu.ft. more acid. Breakdown rate 9 cu.ft. at 1900 psi. Pulled out of well. Rigged up wireline truck and made up drillable cement retainer. Ran in and set at 8678'. Loaded out wireline truck. Made up stab-in tool. Ran in well.

1-26 Located retainer at 8677'. Rigged up pump truck and tested lines and tubing to 3500 psi. Pumped 25 cu.ft. 6% HCl 1-1/2% HF acid and 57 cu.ft. Class "G" cement mixed with 0.5% CFR-2 0.6% Halad 9. Squeezed 13 cu.ft. cement out holes at 8729'. Backscuttled out cement. Pulled out of well. Made up 6" bit and ran in well.

1-28 Drilled out retainer and cement from 8678'-8740'. (Top of cement cap.) Circulated bottoms up. Closed pipe rams and pressure tested casing at 1800 psi for 20 minutes. Pulled out with bit. Ran 420' of 2-7/8" tubing tail below 7" retrievable retainer. Ran tail to 8727' and set retainer at 8307'. Pressure tested below retainer at 2000 psi for 20 minutes.

1985

1-29 Pulled out of well with retrievable retainer. Ran 6" bit on drilling assembly to 8740'. Displaced 63#/cu.ft. lease salt water from well with 325 bbls. of 63#/cu.ft. polymer completion fluid. Drilled out cement cap at 8740' and cleaned out to 8914'. Started out of well with bit.

1-30 Finished pulling out of well with 6" bit. Ran 150' of 2-3/8" tubing tail on 2-7/8" tubing and cleaned out from 8914'-9030'. Pulled out of well. Made up 7" annulus operated test tool on 2-7/8" tubing and ran in well. Set tester at 8960'.

1-31 Pressure tested test tree, choke manifold and flow lines at 2700 psi. Pressured annulus tool to 1000 psi. Tubing communicated with annulus. Pumped 60 bbls. of fluid before getting returns. Pulled out of well and laid down 2-7/8" tubing. Found a 4' collapsed section in joint at 8250'. Started in well picking up new 2-7/8" EUE 8rd tubing.

2-1 Pulled kill string and installed 7" test tool and continued picking up new tubing to 8600'. Set tools, pressure tested test tree, choke manifold and flow lines to 2700 psi. Opened tool at 2:00 p.m. Well did not unload any fluid. Had slight gas blow in one hour; built to 100 psi in 5 minutes. Flowed well for 6 additional hours. Closed well in at choke. Pressure built to 50 psi in 5 minutes. Closed annulus tool.

2-2 Opened well to tubing. Found pressure at 350 psi. Opened well to Baker tank. Pressure gradually bled to 0 psi. Closed well in and hooked up lines for injection.

2-4 Pressure in tubing 900 psi. Opened downhole tool. Flowed well to Baker tank. Shot fluid level at 4200' at 6:30 a.m; 1860' at 9:30 a.m.; 11:00 a.m. fluid had dropped to 2294'. Gas Company was unable to get injection gas to well. Closed tool and bled off lines.

2-5 Rigged up to swab well. Swabbed fluid out of well from 4800'-8000'. Rigged down swabbing tools. Opened downhole tool and flowed well to Baker tank; total of 6 bbls. of oil out of well. Stopped flowing well.

2-6 Pressure in tubing 500 psi. Shot fluid level at 4836'. Swabbed fluid out of tubing from 4836'-8000', 17 bbls. Attempted to flow well to Baker tank 1-1/2 hours. Swabbed well from 5500'-8000', 8 bbls. Attempted to flow well. Flowed 12 bbls. Total fluid out of well 55 bbls.

1985

2-7 Pressure in tubing 500 psi. Swabbed fluid out of well from 4800'-8000'. Opened downhole tool and flowed well to Baker tank 1-1/2 hours. Swabbed from 5000'-8000'. Flowed well to Baker tank - 4 bbls.

2-8 Pressure on tubing 650 psi. Flowed well to Baker tank.

2-9 Pressure in tubing 850 psi. Fluid level at 7750'. Injected gas down tubing at 2700 psi.

2-10 Injected gas down tubing at 2300 psi.

2-11 Injected gas down tubing at 2300 psi.

2-12 Rig shut down. High winds.

2-13 Rig shut down. High winds.

2-14 Rigged up logging truck. Pressure in tubing 1275 psi. Ran temperature log from 5000' to 5800'. Tool stopped working. Pulled out and reheaded line, ran temperature log to 8900'. Ran noise log from 8900'-8500', pulled out.

2-15 Rig down because of high winds.

2-16 Rig down because of high winds.

2-18 Rig down because of high winds.

2-19 Rigged up logging truck and ran temperature and noise logs from 8900'-5000'. Ran background gamma log for RA. Injected RA material. Tracer showed well leaking. Loaded out Flo-Log. Circulated gas out of well. Released packer, pulling out of well.

2-20 Finished pulling out of well. Laid down test tools. Ran in open ended with 160' 2-3/8" tubing tail. Located fill at 8944' and cleaned out to 8959'. Changed drilling line. Circulated polymer fluid out of well with lease salt water. Poured 39 sacks of 8-12 sand down tubing. Located top of sand at 8764'.

2-21 Located top of sand at 8764'. Poured four sacks of sand down tubing. Located sand at 8748'. Backscuttled well clean at 8750'. Shut rig down because of high winds.

1985

2-22 Pulled out of well. Using bailer, capped sand with cement from 8748'-8737'. Ran full bore retainer with 410' 2-7/8" tubing tail to 8729'. Rigged up pump truck. Attempted to break down with water. Equalized 75 cu.ft of 12% HCl 3% HF acid. Obtained breakdown of 8 cu.ft./minute at 1600 psi. Pulling out of well.

2-23 Finished pulling out of well. Rigged up wireline truck. Ran cement retainer and set at 8678'. Pulling wireline out of well. Lost part of rubber from line wiper down well. Made up reverse circulation junk basket. Ran in to 8678'. Circulated and pulled out of well. Tubing tong broke.

2-25 Pulled out with junk basket. Recovered wireline stripper. Ran stinger on 2-7/8" tubing to retainer at 8679'. Pumped away 9 cu.ft./minute at 2900 psi. Preceded by 25 cu.ft. of 6% HCl and 1-1/2% HF acid mixed 57 cu.ft. of Neat "G" cement with 0.5% CFR-2 and 0.6% Halad 9, and displaced 8 cu.ft. of cement out holes at 8729' before reaching 2700 psi final pressure. Pulled out with stinger. Ran 6-1/8" bit on drilling assembly in well.

2-26 Drilled on retainer at 8679'. Rig pump failed. Pulled 10 stands and secured rig for repairs.

2-27 Finished drilling out retainer at 8679' and drilled out cement to 8740'. Circulated well clean.

2-28 Pulled out of well with bit. Ran 7" retrievable retainer to 8500'. Set retainer and pressured holes at 8729'-8730' at 2500 psi. Pressure dropped 500 psi in 10 minutes. Released retainer and started to run retainer deeper in well. Drive line in rig went out. Shut down to repair rig.

3-1 Ran retainer to 8729' and spotted 75 cu.ft. of 12% HCl and 3% HF acid at 8729'. Set retainer. Holes would not take fluid. Backscuttled acid from well and pulled out with retainer. Rigged up wireline. Shot eight 1/2" bullet holes from 8723'-8724'. Ran 120' of 2-7/8" tubing tail below 7" retrievable retainer with tail at 8734' and retainer at 8614'. Spotted 75 cu.ft. of 12% HCl and 3% HF acid at 8726'. Set tool and displaced 65 cu.ft. out holes from 8723'-8730' at 6 cu.ft./min. with 3000 psi. Released retainer and started out of well.

3-2 Finished pulling out with retrievable retainer. Rigged up wireline. Set 7" cement retainer at 8680'. Ran stinger on 2-7/8" tubing to retainer and pumped away 2 cu.ft./min. at 3000 psi. Preceded by 75 cu.ft. of 6% HCl and 1-1/2% HF acid, mixed 57 cu.ft. of Neat "G" cement and displaced 39 cu.ft. out of holes from 8723'-8730' before reaching 2800 psi final pressure. Released stinger and started out of well.

1985

3-4 Finished pulling out of well with stinger. Ran new 6" bit on drilling assembly to 8680'. Drilled retainer and cement to 8735'. Tools fell free to 8740' (cement cap). Circulated well, closed pipe rams and pressured casing to 1400 psi for 30 minutes. Started out of well with bit.

3-5 Pulled out of well with 6" bit. Ran 7" retrievable retainer with 121' of tail in well. Set retainer at 8602' and tail at 8723'. Pressure tested with pump truck to 2500 psi for 30 minutes. Released retainer and pulled out of well. Made up 6" bit on drilling assembly and started in well.

3-6 Displaced 310 bbls. of lease salt water from well with 310 bbls. of 63#/cu.ft. polymer completion fluid. Drilled out cement cap from 8740'-8750', and cleaned out sand to 8914' (top of liner). Pulled out of well with 6" bit. Ran 4-1/8" bit on 2-7/8" tubing to 8900'.

3-7 Cleaned out well from 8914'-9030'. Pulled out with 4-1/8" bit. Ran annulus control 7" test tool on 2-7/8" tubing to 8700'; set tool; pressure tested choke manifold, test tree and all lines at 3000 psi for 20 minutes.

3-8 Opened annulus control test tool at 7:00 a.m. Had light blow to surface in 3 minutes. Flowed into Baker tank and swabbed 12 bbls. of fluid from well in 14 hours.

3-9 Swabbed tubing to test tool at 8700' and continued flowing well for 18-1/2 bbls. Found sand around swab cups. Made feeler run to bottom and found sand fill at 8940'. Continued swabbing and flowing well for an additional 13 bbls. of fluid (total recovered from well 31-1/2 bbls. for day).

3-11 Pressure in tubing zero psi. Swabbing and flowing thick oil to Baker tank from 8600'. Swabbed 15 bbls. out of well. Total fluid out of well 58 bbls.

3-12 Pressure in tubing 125 psi. Swabbing and flowing thick oil to Baker tank from 8600'. Swabbed 22 bbls. out of well. Total fluid out of well 80 bbls.

3-13 Pressure in tubing 250 psi. Swabbing and flowing thick oil and water to Baker tank from 8600'. Flowed well while splicing sand line. Swabbed well from 8600'. Swabbed 20 bbls. out of well. Total fluid out of well 100 bbls.

3-14 Pressure in tubing 150 psi. Ran sand line to 8950' - no fill. Swabbing and flowing well to Baker tank. Swabbed 14 bbls. out. Total fluid out of well 114 bbls.

1985

3-15 Injecting gas down tubing at 2000 psi.

3-16 Injecting gas down tubing at 2000 psi.

3-18 Pressure in tubing 1450 psi. Fluid level at 8855'. Rigged up logging truck. Ran temperature, capacitance and noise log from 8890'-7500'. Pulled out of well. Ran gamma ray background log.

3-19 Rigged up logging truck. Ran RA tracer log. Tracer log showed no gas leak in well. Loaded out logging truck. Filled tubing and rat hole with 50 bbls. fluid. Pumped out plug and circulated gas out of well. Released packer and pulled out of well. Laid down tools. Made up 4-1/8" bit, 150' of 2-3/8" tubing and ran in well.

3-20 Finished running in well. Cleaned out from 8000'-9030' and circulated gas out of well. Pulled out of well. Rigged up wireline, ran Baker 7" 29# Model "D" packer and set at 8690'. Ran test seals and latch-in-locator. Latched into packer at 8690'. Tested seals and packer to 1500 psi. Pulling out of well.

3-21 Finished pulling out of well. Laid down 4-3/4" drill collars and Kelly. Made up production equipment on tubing and hydrotested to 5000 psi. Located packer at 8690'. Latched into packer and pulled 20,000# over weight. Spaced out tubing and landed with 14,000# on packer. Removed BOPE and installed 8" x 5000 psi xmas tree. Pressure tested to 5000 psi. Changed over to inhibited lease salt water.

3-22 Installed blind flanges on wellhead valves and line. Laid down rig; tear out, load out rig and cleaned location. Released rig at 10:00 a.m., 3-22-85.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 11/21/2016 (Month, day, year) Signature Todd A Van de Putte
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
10/23/2015	10/23/15 (late afternoon): Ops notified/Storage Engineering of a well that was possibly leaking at the SS-25 site. Ops had been on injection that afternoon and they were shutting in. The ops noticed that SS-25 sounded like it was still flowing after being shut-in after injection and they noticed a gas odor on the east side of the well pad along the road at the location. The SS-25 well had no anomalous pressure readings tubing/casing or surface casing prior to that day. No wells in the vicinity of the SS-25 wellsite or the other two wells on the SS-25 site (SS-25A and SS-25B) are currently or were showing elevated surface casing pressures or any unusual pressures from the previous days. 10/23/15 (evening) Met with Ops and Storage Engineering to discuss a plan of attack. The initial plan was to gather the equipment, Halliburton pump truck and brine to plan on killing the well. All of that equipment ultimately arrived on location by 11:00am today (10/24/15).
10/24/2015	Well Kill Activity (today): The plan was to pump a polymer pill down the tubing to kill the reservoir and then perform a standard brine well kill. The well currently has an old disabled Camco subsurface safety valve system in the 2-7/8" tubing string place and a Gas lift mandrel above it in the tubing string. Current Kill Job summary: SS-25 Well Pressures Prior to Kill: 11-3/4" surface casing: 140 psig / 7" production casing: 290 psig / 2-7/8" completion tubing: 1700 psig Activity during the well kill: Pumped 11 bbl of 10 ppg XC polymer pill down the 2-7/8" tubing. The tubing pressured up to 3500 psig surface pressure. Shut down the pump. The 7" casing pressure remained at 290 psig surface pressure indicating no communication between the 2-7/8" tubing and the 7" casing annulus. Decided to perform a "Pump and Bleed" kill procedure on the 7" production casing annulus to fill the tubing/casing annulus. Began pumping @ 3 bbl/min w/ the casing pressure at 290 psig. Pressure on the 7" casing began to drop with 45 bbl of 8.6 ppg brine away. The pressure on the 7" production casing dropped to 250 psig surface pressure. Increased the pump rate to 4 bbl/min. Inspected the wellhead – noise and vibration stopped. Inspected the well location looking for any brine communication to the surface (none seen). Continued to pump and at 89 bbl of brine pumped into the annulus and additional gas flow was noted in cracks in the ground. Immediately shut the pump down – Monitored well pressures and the location. SS-25 Well Pressures After Kill Attempt (10-24-15-Monitoring): Time 11-3/4" 7" 2-7/8" 4pm 398 psig 280 psig 100 psig 4:30pm 401 psig 296 psig 140 psig 5pm 306 psig 185 psig 5:30pm 307 psig 200 psig We currently have the Baker tank, and the Halliburton pump truck parked next to the remote kill header on the location. At this time, It appears that we had a wellhead seal leak and/or a very shallow 7" production casing leak.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 11/21/2016 (Month, day, year) Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
10/25/2015	Monitor surface gas leaks in cellar and surrounding surface area. Survey site with Boot and Coots representatives. Meet with Gas Company engineering, Boot & Coots representatives, and support contractors to discuss work plan.
10/26/2015	7" x 11-3/4" annulus pressure: 428 psi. Dug out around wellhead to expose casing valve. Closed ball valve. Removed gauge and bushing from ball valve. Install ball valve. Made up 602 iron from wellhead to test seperator. Check pressures on 25A, 25B. 25A WH Pressure: 0 psi. 25B WH Pressure: 40 psi. Flow 25 7"x11" annulus through seperator. Tubing Pressure: 680 psi, 7" casing: 419 psi. 11-3/4" casing: 413 psi. Opened up to 23/64" on choke. Tubing: 446 psi. 7" casing: 416 psi, 11-3/4" casing: 404 psi. Shut down and secure location
10/27/2015	Check Pressures. 11-3/4" casing: 325 psi, 7" casing: 307 psi, Tubing: 34 psi. Rig up to flow 7" casing to seperator. Spot slick line unit and generator. Continue isolating kill lines and with draw lines to 25. Opened orbitz valve on with draw line. 7" casing dropped 260 psi to 15 psi. Monitor well. 11-3/4" casing: 308 psi, 7" casing: 16 psi, Tubing: 78 psi. Bleed 11-3/4" casing through seperator. Choke: 275 psi. Opened choke from 11/64 to 23/64. Choke: 300 psi, 7" casing: 21 psi, Tubing: 75 psi. Close choke. 11-3/4" Casing: 310 psi, 7" Casing: 25 psi, Tubing: 78 psi. Continue to RU wireline. RU Halliburton HT400 Pump truck. Shut down and secure location
10/28/2015	RU Western Wireline (lubricator, winch, Class 1 DIV III). MU and RIH w/ 1-5/8" sample bailer. Tag @ 467'. Fluid seen @ 300'. POOH. Pump 9.5 bbls to fill kill line using Halliburton pump truck. Pump 4 bbls of 8.6 ppg 7% KCl down wellbore. Shut down. Tubing kill Pressure: 2146 psi, Pump truck pressure: 2199 psi, Surface Casing Pressure: 186 psi. Bleed off tubing pressure to 635 psi. MU and RIH w/ 1-5/8" sample bailer. Re tag @ 437'. POOH and rig down lubricator.
10/29/2015	Spot Crane. RU Crane. Crane assist w/ RD of lubricator and A-Frame. Install swab 2-9/16" swab valve. RU lubricator hung by crane. RIH w/ wireline (spanx, sample bailer). Tag @ 36'. POOH. Check sample. No sample. RIH w/ 2nd attempt. Tag @ 34'. POOH. RD lubricator and wireline.
10/30/2015	Spot Onyx equipment. Rig down laterals, SSV on SS 25 w/ Crane. Install tubing with draw valve, piping. Install Swab valve on SS 25 tree. Install secondary swab valve, DSA on SS 25 tree.Stop operations and secure location.
10/31/2015	RU Halliburton pump truck. Pump 30 bbls 9.8 ppg polymer pill followed by 178 bbls 10.8 ppg polymer down tubing of SS 25A. Stop pump truck, bleed off 8-5/8" annulus of SS 25A. Close tubing kill valve, open casing kill valve. Pump 205 bbls 10.8 ppg brine down casing annulus. Shut down pump truck. Shut in SS 25A. Stop operations and secure location.
11/1/2015	Open Kill line tubing of SS 25B. Pump brine down tubing of SS 25B. Shut down pump truck. Spot Guard Shack at SS 25 pad. RD and move out 40 ton crane. Move in, spot and rig up 110 ton crane on SS 25 pad. Stop operations and secure location.
11/2/2015	RU Choke Manifold. RU SS 25 Surface Casing to Onyx Seperator 1440 Unit (Vertical). RU panic line from Choke manifold. RU SS 25 7" production return line to choke manifold. Move in and Spot Coil Tubing Spool, Control Pak, Injector, BOPE, Power Pak, Hydraulic Pak, Injector Head, Tool Pin, Manilift. Shut down operations and secure location
11/3/2015	Nipple up CT to gooseneck. Connect all hydraulic lines. Nipple up Riser, Nipple up DSA, Nipple up BOP, Nipple up stripper. Shut down and secure location.
11/4/2015	Pull tested coil tubing w/ 15k lbs. Filled CT w/ 19.5 bbls, 10.8 CaCl2. Tested reel to 300 psi low, 8000 psi high. 10 min each. Good. Filled stack. Troubleshoot leak in kill line. Tested choke to 300 psi low, 4000 psi high. 5 min each. Observed leak from adapter flange to choke manifold. Tightened flange. Test both BSR's to 300 psi low, 4000 psi high. Good. Make up Jet Nozzle (1.69") to Coil Tubing. NU injector. Tested BOP's to 300 psi low, 4000 psi high. Test choke manifold valves to 300 psi low, 4000 psi high. Troubleshoot leak in choke manifold. ND injector Shut down and secure location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 11/21/2016 (Month, day, year) Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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11/5/2015	Continue troubleshoot choke manifold. Greased valve #2 on manifold. Pressure tested choke manifold - 300 psi low, 4000 psi high. Valve #2 not holding. Changed out valve #2. Shell test choke manifold - 300 psi low, 4000 psi high. Test #2 valve - 300 psi low, 4000 psi high. Test good. NU injector. Test lower and upper pipe rams - 300 psi low, 4000 psi high. Test good. Test stripper - 300 psi low, 4000 psi high. Test good. ND injector and stand back. Shut down and secure location.
11/6/2015	Greased Rotac valves on kill line. Made up wash BHA on coil tubing. NU injector. Tested stripper and outside Rotac Valve- 300 psi low, 4000 psi high. Test Good. Test BPV- 300 psi low, 4000 psi high. Test good. Broke circulation in riser @ 1 bpm. Maintained 2800 psi back pressure on choke. Held BOP drill. RIH to swab valve. Pump 3 bbls glycol, diplace reel volume w/ 10/8 ppg CaCl2. Apply 3000 psi on riser. Open swab valve. Pressure stabilized @ 2700 psi. Begin wash down @ 3/4 bpm, maintain 2900 w/ choke. Pump pressure -6500 psi. Tag @ 20'. Wash down to 53'. Pump 5 bbls glycol. Displace. Shut down for 10 min. Pressure decrease to 2800 psi. Continue wash down, At 482', choke pressure decreased to 1200 psi. Unable to maintain back pressure. Lost returns. Experience drag. Continue to pump w/o returns. Pulled coil tubing into riser. Pump down tubing head outlet @ 2 bpm, 41 psi. Pump polymer pill @ 4 bpm. Pump pressure 100 psi. Pumped total 62 bbls. Gas at surface increased. Polymer seen at surface cracks around cellar. Shut down pump. Evacuate personnel. Flow 7" and 11-3/4" gas to open top tank. Shut down and secure location.
11/7/2015	Removed mushroom from stripper. Spotted slickline unit and RU. Made up 4-1/16" 15M x Bowen X-Over on Stripper. MU 2.30" gauge ring. NU lubricator. Test lubricator- 300 psi low, 4000 psi high. Good. Equlized swab valve with 1250 psi. Opened swab valve and RIH. Estimated FL @ 3750'. Tagged nipple profile @ 8425'. POOH. L/D lubricator. Shut down operations and secure loctaion.
11/8/2015	Began MU slickline tools. Tool string: Spinner, ITL CL, Temperature, Pressure, GR. NU lubricator. Pressure tested lubricator - 300 psi low, 4000 psi high. Good. Equalized swab valve w/ 1500 psi. Opened swab valve. RIH @ 50 fpm. Tagged at 8425'. POOH @ 100 fph. L/D lubricator. Shut down operations and secure location.
11/9/2015	RU E-line. SDI began preparing to run gyro. Decision to run noise/temp log. MU noise/temp tools. NU lubricator. Pressure tested - 300 psi low, 4000 psi high. Good. Equalized swab valve w/ 1500 psi. Open Swab valve. RIH. POOH w/ noise/temp tools. Pulled into lubricator. Secured well. Bleed off pressure. Changed out noise/temp tools. RIH and log temperature down to 8435'. Log noise out of hole. Secure well. Bleed off pressure. L/D tools. L/D lubricator. Stop operations and secure location.
11/10/2015	SDI prepared to run gyro. RU and NU lubricator. Pressure test - 300 psi low, 4000 psi high. Good. Equalize swab valve w/ 1500 psi. Open swab valve. RIH w/ gyro. Attempted to orient gyro. Unsuccessful. POOH. Tested gyro. Cut 300 ft of e-line. MU gyro. Stab lubricator. Pressure test - 300 psi low, 4000 psi high. Good. RIH. Could not orient gyro. Well temp and vibrations affecting tool. POOH. L/D tools. L/D lubricator. R/D SDI. Stop operations and secure location
11/11/2015	Drained riser to vac truck. ND CT BOP's. ND riser and 4-1/16" 10M gate valve. Installed 2-9/16" 5M gate valve on swab valve. Installed 2-9/16" 5M x Bowen adapter flange. Pressure tested - 300 psi low, 5000 psi high. Good. Ordered out 2 Baker 5 setting tools to set 2-7/8" EZSV. Back loaded slickline unit and sent to staging area. Back loaded lateral lines from well 25. Pulling 10.8 ppg CaCl2 from baker tank. Flowed 11-3/4" casing for 5 minutes on 32/64 choke. Continue removing equipment from location in preparation for kill. Discuss kill plan w/ Boots Coots. Stop operations and secure location. Will be getting 2 x 2-7/8" EZSV's from Longview, TX. Bridge Plugs conversion kits being machined in Ventura, CA.
11/12/2015	2 x 2-7/8" EZSV's arrived on location. Stabbed lubricator. Pressure test - 300 psi low, 4000 psi high. Test Good. L/D lubricator. MU 2-7/8" EZSV. Pressure Test lubricator - 400 psi low, 4000 psi high. Test Good. Equalized swab valve w/ 1500 psi. Opened swab valve. Set EZSV at 8393'. POOH. Stop operations and secure location.

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11/13/2015	Discussed perforating and pumping kill. Installed target 90 on wellhead flowline. Stabbed lubricator. Pressure tested - 300 psi low, 4000 psi high. Test Good. Equalized swab valve w/ 1200 psi. Opened swab valve. Tubing Pressure - 1201 psi. Pumped 6 bbls CaCl2. RIH w/ tubing punch. Tagged EZSV at 8402'. Perforated tubing 8387'-8391'. POOH. L/D lubricator. Pumped 10 bbls 9.4 polymer pill. Began displacing w/ 9.4 ppg CaCl2. After displacing tubing volumed, open choke on 7" casing. Pump rate at 6 bpm. After 80 bbls displaced, observed increased gas flow and liquid at surface cracks. Continued pumping 8 bpm. After 185 bbls pumped, pony motor went down. Pumps offline. Brought pumps back online at 7 bpm. After 693 bbls pumpd, brine, oil and gas flowing from surface cracks. Displaced 10 bbls of 9.4 ppg polymer into tubing. Shut down. Lined up to pump down 2-7/8" x 7" annulus. Pumped junk shot. After 5 bbls pumped, observed brine from cracks. Continue pumping junk shots. Shut down. Secured location.
11/14/2015	Bled well SS 25 7" annulus from 245 psi to 200 psi. Bled gas. Shut in and monitored. Cleaned location and equipment. Discussed pumping barite pill w/ Boots and Coots. B&C created program for pumping barite pill. Performed pilot tests w/ chemicals for 18.0 ppg pill. Samples proved pumpable w/ good setting times. MI and RU Halliburton batch mixer. Sucked out well 25 cellar. Filled baker tank w/ 500 bbls 9.4 ppg brine. Modified pump line to pump junk shots down 7" annulus. Shut down operations and secure location.
11/15/2015	Began moving chemicals for barite pill to pad. Pump 9.4 ppg CaCl2. Stage pumps to 8 bpm after 50 bbls. After 75 bbls pumped, gas at cracks increased followed by oil and brine. Pumped 19 bbls of 18.0 ppg barite pill. Began displacing w/ 9.4 ppg CaCl2 at 8 bpm. After displacing 50 bbls pump pressure 1250 psi. Shut down. Monitored well. Flow at surface cracks stopped briefly then began gas flow. Shut down operations and secure location.
11/16/2015	High winds blowing towards equipment. Wait for LEL readings to decrease before starting. Cleaned e-line unit in preparation for logging operations. Transported barite pill materials to pad 25. Boots & Coots prepared barite pill program and submitted for review. Continued cleaning equipment and location.Shut down. Secure location.
11/17/2015	High winds blowing towards equipment. Decision was made to wait for LEL levels to decrease before starting operations. Boots & Coots escorted Halliburton and T&T crane personnel to wellsite to inspect equipment. Boots & Coots escorted DOGGR representatives to well for afternoon survey. Decision was made to end operations for day. Secure location.
11/18/2015	High winds blowing towards equipment. Mix 35 bbls 18.0 ppg barite pill. Pump 9.4 ppg CaCl2 down tubing. Staged pumps to 5 bpm. After 50 bbls, shut down. Perforations clear. Well unloaded tubing. Pump 9.4 ppg CaCl2. After 45 bbls, gas increased at surface. Brine and oil from fissures. Pumped 230 bbls. Pump 35 bbls 18.0 ppg barite pill. Displaced w/ 50 bbls. Shut down pumps. Spotted slickline unit. Shut down operations. Secure location.
11/19/2015	High winds blowing towards equipment. Began rigging down batch mixer and pump truck at SS 25. Moved out batch mixer. Began making up 2-7/8" pump line from SS-1 to SS-25. Prepared SS-1 for equipment. Completed pump line. Installed night cap w/ pressure gauge on SS -25. Trouble shoot manifold tubing pressuer gauge. Moved 2-500 bbl baker tanks, batch mixer, Halliburton Elite pump truck to SS-1. Shut down and secure location.
11/20/2015	High winds blowing towards equipment. Placed barrier across road to pad 25 to prevent vehicles from entering. Modified manifold on well 25 to allow flowing 2-7/8" tubing to withdraw line. Moved in 2-7/8" pump line to well 25. Continue preparing SS-1 site for pumping operations. Filled one 500 bbl baker tank. Shut down and secure location.
11/21/2015	High winds blowing towards equipment. RU Batch mixer and Pump Truck at SS-1. Reconfigured pump line at SS 25 to pressure test lubricator at SS 25A, SS 25B wells. Installed uni-bolt adapters on SS 25A, SS 25B. Completed 2-7/8" pump line tie in at SS 25. Moved out pump truck from 25 pad. Sent to decon. Removed pump line from CT reel. Moved out man lift. Sent to decon. Repositioned pump truck at SS-1. Pressure tested 2-7/8" pump line. 300 psi low, 4000 psi high. Low test good. Trouble shoot leaks. Tightened 2-7/8" connections. Moved in and RU 40T crane at SS 25. Shut down operations and secure location.

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HISTORY OF OIL OR GAS WELL

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Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
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11/22/2015	Began RU slickline to run tubing plugs in SS 25A, 25B. SS 25B - RIH w/ 2.3" gauge ring to 8372'. POOH. RIH w/ PX plug and set at 8372'. SS 25A- RIH w/ 2.8" gauge ring to 8144'. POOH. RIH w/ PX plug and set at 8144'. POOH. RIH w/ prong. Prong did not set. POOH. Test 2-7/8" pump line. 300 psi low, 5000 psi high. Test good. L/D lubricator. Repositioned grease pack unit. Shut down operations and secure location.
11/23/2015	RU slickline on SS 25A. RIH w/ prong. Set in PX plug at 8144'. POOH. RD and L/D lubricator. Moved in second Halliburton pump truck to SS-1 and RU. Back loaded slickline unit and equipment. Sent to decon. Back loaded injector, guide, control cab, power pack, generator, and tool house. Sent to decon. RD 40T crane and moved out. Survey crew surveyed surface coordinates for SS-25. Installed anchor chains on SS-25. Moved in Nitrogen truck and blow out CT. Back loaded reel and sent to decon. Pressure tested second Halliburton pump truck line. 300 psi low, 5000 psi high. Test good. Anchored 2-7/8" pump line. Secure 2-7/8" pump line at pad 25 w/ concrete blocks. RD 110T crane and moved out. Prepare location for kill. Shut down and secure location.
11/24/2015	Prepared for pumping operations. Mixed 50 bbls GEO Zan polymer pill loaded w/ LCM. Mixed 35 bbls 18.0 ppg barite pill. Pumped 50 bbls GEO Zan pill. Began pumping fresh water at 5 BPM. After 60 bbls pumped, increased to 8 BPM. After 80 bbls pumped, increased to 10 BPM. Gas from crater increased after 90 bbls pumped. After 135 bbls pumped, increased to 13 BPM. Opened 7" choke after 850 bbls pumped. 7" casing decreased from 160 psi to 8 psi. Pumped 950 bbls water. Pumped 35 bbls barite pill. Displaced out of tubing w/ 56 bbls. Shut down. Monitor well. Tubing pressure increased to 76 psi. 7" - 188 psi, 11-3/4"-27 psi. Recovered 700 bbls of fluid from location.
11/25/2015	Pumped 50 bbl GEO Zan pill loaded w/ LCM. Displaced w/ fresh water down tubing w/ 56 bbls. After 60 bbls pumped, increased rate to 13 bpm. After 140 bbls pumped, gas activity increased at surface. After 700 bbls pump water flow from surface increased. Continue pumping 13 bpm. Pumped 960 bbls of water. Pumped 100 bbls GEO Zan pill loaded w/ LCM. Began displacing w/ 9.4 ppg CaCl2 at 4 bpm. After 20 bbls of displacement, slowed pump rate to 2 bpm. After 40 bbls, slowed pump rate to 1 bpm. After displacing 56 bbls, shut down. 2-7/8" - 0 psi, 7" - 0 psi, 11-3/4" - 27 psi. Flowine from 7" casing and tubing head broke. Nipple on well head broke. Pump line to 7" casing head broke. Fabricated valve extension handles for tubing head valve and 7" casing valves. Closed tubing head valve and 7" casing valves. Shut down and secure location.
11/26/2015	Pilot tested Sodium Silicate delivered to location. Installed cables around wellhead to stabalize. Shut down and secure location.
11/27/2015	Moved in backhoe, cleared area for crane. Delivered 320 track hoe to pad 25. Began clearing around well 25. Moved in man lift. Installed hand wheel on crown valve. Tightened hand wheel on tree wing valve. Installed pressure gauge on night cap. Checked tubing pressure -1600 psi. Removed whip check from 2-1/16" 5M x 1502 adaptar flange. Shut down and secure location.
11/28/2015	Made up 50' of 2" 5M co-flex hose. Sent surface safety relief valve for bench testing. Shut down and secure location.
11/29/2015	Installed culvert on NW corner of Pad 25. Replaced block valve in withdraw line. Dug out and exposed pump in manifold. Installed additional line to secure well 25. Moved in and RU 100T crane. Repositioned E-line equipment and cleaned. Steam cleaned hydraulic choke manifold and test seperators. MU noise/temp tools. RD and MO 100T crane. Excavated around concrete pad. Exposed wash out. Function tested, shell tested, and block and bleed tested 2-1/16" 5M safety valve. Test good. Installed relief valve on production line. Shut down and secure location.
11/30/2015	Moved in and RU 100T crane. Stabbed lubricator. RIH w/ noise/temp tools. Logged temperature to 8390'. Logged noise out of hole. L/D lubricator. RD and MO 100T crane. Continue RU to flow to well 25 tubing to 25B production line. Shut down and secure location.
12/1/2015	Move in and RU 100T crane. Made up SDI Gyro.Tubing pressure - 1510 psi. Stabbed lubricator. RIH w/ gyro. Unable to initialize gyro. POOH and L/D lubricator and gyro. RD 100T crane and move out. Shut down and secure location.

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12/2/2015	Move in 100T crane and RU. PU and RU lubricator, gyro on SS 25B. RIH w/ gyro. Unable to get initialize gyro. POOH and L/D lubricator and gyro. RD and MO 100T crane. Removed choke line from 7" casing valve. Tubing pressure - 1551 psi. Shut down and secure location.
12/3/2015	MI an RU 100T crane. Removed 2-1/16" 5Mx1502 adapter flange from tree assembly outlet valve. Installed 2-1/16" 5M SSV. Installed 2" 5M co-flex tee. RU choke line to choke manifold. Secure w/ concrete blocks. Purge withdraw line. RU to monitor tubing pressure. Installed control lines to SSV. Observed leak from needle valve. Removed SSV manual overide. RDMO 110T crane. 2-7/8" tubing - 1554 psi. Shut down and secure location.
12/4/2015	2-7/8" Tbg Press - 1552 psi. MIRU 110T crane. Tied onto pump in manifold and pulled from crater. Removed pump line from wireline pump in sub. Removed pump line from tree. Moved pump iron from SS1 to SS25 pad. RDMO 110 T crane. Shut down and secure location.
12/5/2015	Monitor LEL's. Moved skid steer to SS-1. Made up pump in manifold. MIRU 100T crane. Unable to start manlift. RDMO 100T crane. 2-7/8" Tbg Press-1535 psi. Shut down and secure location.
12/6/2015	2-7/8" Tbg Press-1535 psi. MIRU 100T crane. Back loaded K-Rail, Personnel basket, empty pallets. Installed pump lines to wireline side entry sub and tree assembly outlet. Filled 2-7/8" pump line w/ frest water. Test line. 300 psi low for 5 min, 5000 psi high for 10 min. Good. RD lubricator. Back loaded lubricator, grease unit, tool basket. 2-7/8" Tbg Press-1536 psi. Shut down and secure location.
12/7/2015	2-7/8" Tbg Press-1526 psi. Opened withdraw line and apply 490 psi to SSV. Pressure test choke line. 485 psi for 5 min. Good. Test choke line w/ well pressure. 1525 psi. Good. Begin flowing tubing to withdraw line on 1/2" choke. Tbg Pressure decreased to 815 psi. Closed choke. Tbg Pressure increased to 1511 psi. Opened choke. Flowed tubing on 1/2" choke. FTP - 1394 psi. Shut down and secure location.
12/8/2015	FTP - 1448 psi. Opened choke to 7/8". FTP- 1438 psi. Opened choke to 1". FTP - 1440 psi. Opened choke to 1-3/8". FTP - 1441 psi. Opened choke fully 1-1/2". FTP - 1443 psi. Continue clearing site. FTP-1457 psi. Shut down and secure location.
12/9/2015	FTP - 1501 psi. MIRU 100T crane. FTP decreased to 590 psi. Closed Hydraulic choke. Tbg press stabilized at 1500 psi. Off load stove pipe. Line up to flow tubing through test separator. Flow tubing through test separator on 33/64. Continue removing dirt from site. Close Hydraulic choke. Line up to flow directly to withdraw line. Open tbg to withdraw line on 1/2" choke. FTP-722 psi. Pick up vent tube and adjust slings. Shut down and secure location.
12/10/2015	2-7/8" Tbg Press-1463 psi. MIRU 100T crane. Unable to remove grading. Modify grapple. Unable to remove grading. RDMO 100T crane. 2-7/8" Tbg Press-1463 psi.Shut down and secure location.
12/11/2015	MIRU 100T crane. Offload wireline equipment and spot gyro on SS 25B. RU E-Line equipment. 2-7/8" Tbg Press - 1438 psi. Close Hydraulic choke. RDMO 100T crane. 2-7/8" Tbg Press-1467 psi. Close SSV. Shut down and secure location.
12/12/2015	2-7/8" Tbg Press-1521 psi (shut in). Begin flowing tbg on 5/8" choke. FTP decrease to 717 psi, then begin increase. 2-7/8" tbg press-1403 psi. Shut down and secure location.
12/13/2015	MIRU 100T crane. RU lubricator on SS 25B. RIH w/ gyro. POOH and L/D gyro. L/D lubricator. RD E-Line. RDMO 100T crane. 2 -7/8" Tbg Press - 1328 psi. Closed choke. Closed SSV. Close gate valve upstream of choke. 2-7/8" Tbg Press-1450 psi. Shut down and secure location.
12/14/2015	Clean location. Move well anchor to east side of site. Winds 50+ mph. Shut down and secure location.
12/15/2015	Break flanges on header lines. Drag 2nd pump line down to site. Remove header lines and racks. Bleed 2" line from test unit to 11". Break same and remove sections to install bridge. MU valve to new pump line and line to hydro test. Hydro test. 315 psi low for 5 min, 5256 psi high for 10 min. Good. Shut down and secure location.
12/16/2015	DOGGR arrive on site. Operations shut down for inspection. Re-install stabilizing line of wellhead to east and west side of tree. Shut down and secure location.

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12/17/2015	Undo pump lines. Close in upper crown valve and bleed off line, remove line. Remove all pump lines on manifold. Reposition 2-7/8" pump lines. RD lubricator. Remove pump iron hangin in cellar. Stop operations to take gas samples for LA County HAZMAT and Fire Departments. Wait on OSHA, no show. Suspend operations due to small aircraft (Cesna 172) doing fly-bys very close to location. Flour Eng and AE Eng representatives arrive and stand by until plane leaves. Shut down and secure location.
12/18/2015	Stage junk shot manifold to SS25 site. Modified surface csg stinger sub for Wellhead "A". Retest both pump lines from location. 300 psi low, 5000 psi high. Good. Continue cleaning location. Retighten chains supporting tree west to east. Shut down and secure location.
12/19/2015	MIRU 220T Hydraulic crane w/ 200' stick. 1/2 bridge arrives and position. 2nd 1/2 bridge arrives and assembled. Pull test w/ crane. Move bridge and straddle well 25. No issues. Install additional grading onto bridge around tree to conceal oil to fall back down. RDMO crane. Shut down and secure operations.
12/20/2015	2-7/8" Tbg Press-1328 psi. Function test SSV. MI HOWCO pump iron and tie into wireline pump-in tee. MIRU 100T crane. RU wireline. Spot gas/safe safe mono-conductor wireline unit. RIH w/ gauge run. Unsuccessful. POOH. Shut down and secure location.
12/21/2015	2-7/8" Tbg Press-1285 psi. Est BHP-1551 psi. MIRU crane and wireline. RU Lubricator and test 400 psi low, 4000 psi high. RIH w/ 2.133" Gauge ring. Tag at +/- 100'. POOH and L/D wireline. RU on 25B. RIH w/ rotating magnet. Confirm 25B is not interferring w/ WellSpot/Gradient Runs, seeing 25. POOH w/ rotating magnet. Install grading on bridge for coalescing purposes. MI slick line equipment and glycol on location. RDMO crane. Reconfigure pump tie in lines to glycol ine. Pump 1 bbl of glycol into well. No "sealing" ice plug. Shut down and secure location.
12/22/2015	2-7/8 Tbg Press-1215 psi. Pump 1.5 bbl glycol at 7 gpm. 2-7/8" Tbg Press-1140 psi. Close wellhead, bleed off lines and remove chem injection pump. Begin pump line test 400 psi low, 5000 psi high. Begin kill w/ 300 bbls of all WBM (15.1 ppg) at 5 BPM. 40 bbls pumped. Pump truck - 150 psi. Tubing-13 psi. 70 bbls pumped. Pump Truck - 200 psi. 300 bbls pumped. Pumps off. Slow rate to 1/2 BPM. Shut down due to rocking of wellhead and unloading mud at surface. Tubing Pressure -248 psi. TEE broke due to wellhead movement. Close Low Torque bale on pump line to isolate manifold. Shut down and secure location
12/23/2015	Check Tbg Press at chemical pump - 750 psi. Unable to access valve on tree of injection tee. Isolate HOWCO pump line at well and attempt to bleed off. Unsuccessful. Close valve on tree by taking off handle and closing w/ wrench. Bleed F/800 psi T/600 psi on tee pump line manifold. Check all lines on SS 25 and confirm bled off. Disconnect chemical inj line from pump manifold. Kill power to site and disconnect E-Line. Reconfigure power. Move out E-line equipment. Shut down and secure location.
12/24/2015	Pull grating skid from north end of bridge. Clear mud and debris off of bridge from norh and east side of bridge. Clean north bridge walk. MIRU crane. Load out all reamining Wireline eq. Remove skid grating from south end of bridge. Wait on California OSHA for permission to continue to work. Clear mud off of Xmas tree and haul off grating platforms. Shut down and secure location.
12/25/2015	Clean grating skid. Cover with steel mesh (mist extractor). Clean mud and debris off. Clean second grating of mud. Install and strap down full length 2/ SS316 mist extractor mesh. Shut down and secure location.
12/26/2015	Wire mesh collected some oil over day. Strong winds. Shut down and secure location.
12/27/2015	Winds not favorable for work. Take AECOM to site. Clear site of all personnel. Shut down and secure location.
12/28/2015	Clear mud and debris from south and west side of bridge walkway. Close inside valve on choke side of treee. Run 3/4" wirerope guide line under south end of bridge. Place mist mesh on south end of bridge. RD choke manifold and separator equipment. Remove damaged pump line.Remove lower pump line, pump swings, tees. RD all flow iron to test equipment. OSHA and DOGGR site visit. Remove test Separator. Shut down and secure location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 11/21/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
12/29/2015	Move pump line over to east side of pad. Re-tension wellhead north guide line to dead man. Clear mud and debris from NE side of crater. Clear debris from North and West side. Move out closed top baker tank. OSHA on Site - Stop operations. Load mud and debris to roll-off boxes. OSHA return to site - Stop operations. Shut down and secure location.
12/30/2015	Clear debris from south and west end of crater. Skid Weatherford choke manifold for pickup. Remove all kill lines to well from SS 1. NU flang on flange of co-flex hose on tubing.Make pressure line to lower injection tee. Open valve and begin recording tubing pressure - 1051 psi. Continue clean up of location and prepare site for sandbags ahead of rain. Move in Vacuum truck. Remove fluids from production tanks. Continue to clear mud from location and debris from west side of location. Spot sand bags. Load out and remove HOWCO pump iron. Remove junk shot manifold. Bring up straw barriers for rain runoff. Shut down and secure location.
12/31/2015	Strong winds from north. Wait on wind to subside. DOGGR rep on site. Winds unfavorable. Shut down and secure location.
1/1/2016	Tubing Pressure - 1022 psi. Strong winds from North. Move in 60' tray w/ 8" mesh mist extractor (33') pads and spot on location. Layout sandbags as per GeoTech instructions. Prepare slope for upcoming rain. Shut down and secure location.
1/2/2016	Strong winds blowing out of North. Continue to lay sand bags down to prevent water runoff. Begin installing fiber tube/barriers to prevent deterioration of slope. Double layer sand bags on north end of pad. Strong winds preventing mist tray from being set. Shut down and secure location.
1/3/2016	Move in and Spot Crane. Trouble with safety shut down switches on 110 ton crane. Rig down and move out crane. Move in and spot 40 ton crane. Moved 60'x6' mist tray across East side of crater next to well bridge. Grounded mist tray to ground rod. Released crane. Continue to prepare location for rain. Measure for head sheild on SS 25A, SS 25B with AECOM engineer. Shut down and secure location.
1/4/2016	Tubing Pressure - 959 psi. Load out remaining HAL pump iron. Shut down and secure location.
1/5/2016	Heavy rain and thick fog. Minimal visibility. Skim water with vac trucks. Monitor rain. Shut down and secure location.
1/6/2016	Tubing Pressure (R bunker) - 908 psi. Section on east side of crater sloughed off. Re-Route NOX line closer proximity to wellhead. Vac trucks skim water and oil. Heavy rain sets in. Monitor rain and location. Shut down and secure location.
1/7/2016	SITP - 884 psi. Move in 70T crane and spot on SE side of pad. Remove pressure line monitor from wellhead. Move in collection pad "Tray 2" and spot on east side of "Tray 1". Completely cover east side of crater w/ mist trays. Reconnect tubing pressure lines at 881 psi. Clean up on west side of bridge for west side collection tray down to concrete slab. Crane down. Repair crane and remove from site. GeoSenTec rep on site and inspected fiber rolls and sand bags. Approve drainage location. CalOSHA on site. Shut down and secure location.
1/8/2016	SITP - 870 psi. Observe section of concrete slab on south side is now hanging down into crater. DOGGR & OSHA on site and inspect SS 25. CalOSHA set up air monitoring for BTEX (Benzene, Toluene, Ethylene, Xylene). Set up parrallel monitors. Verify all ground wires. SITP - 846 psi. Take gas samples near wellhead. Shut down and secure location.
1/9/2016	SITP - 838 psi. Cement slab on south end moved a few inches further north. B&C attend Pre-Construction meeting of gas capture system. State Legislature officials on site at SS 1. Continue monitoring pressure and well conditions. Paving operation ongoing at entry SS 25. Shut down and secure location.
1/10/2016	Dress up area on SW side of bridge to accommodate Tray #3. SITP=800 psi. Shut down and secure location.
1/11/2016	Moderate to strong winds from NNE. SITP = 787 psi. Prepare north end of site for Tray #3. Fill in low spot on NE corner of pad in preparation for rain runoff. Shut down and secure location.
1/12/2016	Strong winds out of north. SITP: 755 psi. Shut down and secure location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 11/21/2016 (Month, day, year) Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
1/13/2016	Slight winds from WNW. SITP: 743 psi. Move in crane and heat sheild on stinger truck. Set up same. PU and move heat shield over SS 25A, SS 25B. Move out crane and stinger truck. Repair drainage along side of SS 25 access road. Shut down and secure location.
1/14/2016	Wind moderately strong from NNW. Check temperature of gas flow at bottom of crater w/ thermal gun. 54 deg F. SITP: 722 psi. Temp gun read directly at source of flow 67-69 deg F. Move in Wireline equipment. Shut down and secure location.
1/15/2016	SITP: 716 psi. Move in 70T crane. RU same. RU slick line unit. Pressure test lubricator. 400 psi low, 4000 psi high for 5 min. Good. Pump 1 bbl glycol. RIH w/ 25' of 1.87" tool string and 1.25" memory pressure and temperature tool. Tag and sit down at 8382' (8370' WLM). POOH. RD slick line unit. Move out same. RD crane. Move out same. Shut down and secure location.
1/16/2016	Wind from NNW. SITP: 691 psi. Move in crane. RU same. Move in wireline unit. RU same. RIH w/ rate gyro. Collect directional information in and out of wellbore. POOH w/ gyro tool. RD wireline unit. Move out same. RD crane. Move out same. Shut down and secure location.
1/17/2016	Moderate strong winds from NNW. SITP: 658 psi. SoCal Union representative on site for inspection. US Senate representatives on Site at SS 1. Shut down and secure location.
1/18/2016	SITP: 667 psi. Close site due to poor visibility (fog). Secure location
1/19/2016	SITP: 638 psi. US State Congressmen and City Government officials on Site at SS1. Shut down and secure location.
1/20/2016	SITP: 619 psi. Asphalt slab on north end is showing signs of sagging. Crack developing along west side and separation from bridge can be seen. Remove tool trailer, choke panel and N2 bottle rack. Remove air compressors (2). Move in additional baker tank for any returns for kill job. Shut down and secure location.
1/21/2016	SITP: 597 psi. Winds not favorable for crane work. Remove tools and safety cones from site. Discuss wireline work. Shut down and secure location.
1/22/2016	SITP: 607 psi. Estimated 15-20 bbls oil accummulation in bottom of crater. Use skid steer to spread dirt on south end of pad. Move in air compressor. Move in wireline unit and unload stinger crane. Spot E-L equipment. RU wireline unit. Stab lubricator. Test lubricator 400 psi low, 4000 psi high. Good. RIH w/ 24 finger tubing caliber. On bottom, began loggin tubing. POOH w/ E-line. L/D tools, lubricator. Shut down and secure location.
1/23/2016	SITP: 591 psi. Move in crane. PU and MU E-line unit. RU Lubricator. Pressure test lubricator 400 psi low, 4000 psi high. Good. RIH w/ pressure/temperature logging tools at 60 fpm. On bottom w/ E-line tools. POOH w/ wireline. L/D tools. L/D lubricator. Release crane. Run guy wire cables to secure tree. Put cable on west side and north side. Shut down and secure location.
1/24/2016	SITP: 585 psi. Prepare too and cables to make additional guidelines to tree. Affix 2 additional 3/4" wire rope lines to tree. Total of 8 guy wires secured to anchors. Bleed off pressure and remove pressure sensor. Move in crane and make up 2" 1502 iron to injection tree. Install 2" tee, lo-torque valves and pressure sensor. Open valve on injection tree to pressure sensor. Shut down and secure location.
1/25/2016	SITP: 573 psi. Prepping baker tanks and choke manifold. Hook up lines to choke manifold and baker tank. Use skid steer to place cement blocks on flowlines. Shut down and secure location.
1/26/2016	Very high winds for day. Monitor wellsite. Shut down and secure location.
1/27/2016	SITP: 555 psi. Strong winds from north. Wireline company hook up antenna. Monitor location. Shut down and secure location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles

Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.

A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)

Date 11/21/2016 (Month, day, year)

Signature

Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
1/28/2016	SITP: 582 psi. Move sand bags as needed to reconfigure mist extractor trays. Wireline company test pressure/temperature data transmitter system. Anchor lines to baker tanks. Set roll off bins for mist extractor pads. Unload second roll off bin. Work on drainage. Shut down and secure location.
1/29/2016	SITP: 569 psi. Strong winds from north. Monitor wind and location. Stage crane on site. Rig up crane. Remove both trays from east side of crater bridge. Remove all de-mister pads from trays and place in roll off bins. Rig down crane. Move out same. Haul off 1st roll off bin. Stinger crane on site. Load out tray 1. Shut down and secure location.
1/30/2016	SITP: 583 psi. Move in crane and rig up counter weights. Close in tubing valve, bleed off flowline and disconnect from X-mas Tree. Pick up north end of bridge and place cribbing underneath. Pick up 60' skid (tray 2) and place under north end of bridge for additional footprint support. Pick up bridge and remove cribbing and set bridge on skid. Release crane. Re-tighten guidelines as needed. Place rope barrier around crater. Run ground wire from bridge to skid (tray 2). Place safety cones around bridge and crater. Shut down and secure location.
1/31/2016	Heavy fog. Heavy rain and wind picking up. Monitor drainage. Sand bags diverting rain. Shut down and secure location.
2/1/2016	Strong wind from NW. SITP: 588 psi. Monitor well. Shut down and secure location.
2/2/2016	Strong winds from north. SITP: 590 psi. Blade confirming point of install Gas Chromatograph. Wireline company finish installation of data streaming equipment. Reconfigure needle valve tree on flow line to accepth Blade's chromatograph. Shut down and secure location.
2/3/2016	STIP: 581 psi. Strong winds from north. Monitor wellsite. Shut down and secure location.Monitor overnight.
2/4/2016	SITP: 583 psi. Strong winds from north. Barricade around crater. Blade Energy on site to gather gas samples from tubing flow line. Extreme strong winds. Shut down and secure location. Monitor overnight.
2/5/2016	SITP: 603 psi. Strong winds from north. Capture gas sampling. Shut down and secure location. Monitor overnight.
2/6/2016	SITP: 585 psi. Wind strong from north. Shut down and secure location. Monitor overnight.
2/7/2016	SITP: 609 psi. Strong winds from north. Shut down for night and secure location. Monitor overnight.
2/8/2016	SITP: 622 psi. Strong winds from north. Shut down and secure location. Monitor overnight.
2/9/2016	SITP: 599 psi. Strong winds from north. 125 lbs ABC wheeled fire extinguisher delivered to site. Place next to shed over SS 25B. Shut down and secure location. Monitor overnight.
2/10/2016	SITP: 613 psi. Strong winds from north. No visible changes in crater. Shut down and secure location. Monitor overnight.
2/11/2016	SITP: 615 psi. Moderate winds from north. Start mill operation on relief well. Relief well went to full losses. SITP dropped to 590 psi initially then began to climb. SITP: 660 psi. 2 min later SITP: 721. Crater went quiet. 10 min later, SITP: 933 psi, well quiet. 5 min later, SITP: 1060 psi. Relief well closed annular and pumped down kill line at 2 bpm. SITP: 1378 psi. SITP: 1409 psi. SITP: 1424 psi. Shut down pumping on relief well and observe reaction. SITP: 1366 psi. Resume milling operations on relief well. SITP: 1374 psi. SITP: 1385 psi. OSHA "Red Tagged" bridge on SS 25 location. Well static, no flow, no activity in crater. Secure site and shut down operations. OSHA reps at SS 25 at 17:50 (dark at 17:33). Removed OSHA red tag from bridge. Monitor overnight.
2/12/2016	Strong winds from north. SITP: 1335 psi. Relief well run stinger in SS 25 well. SITP: 1351 psi. Relief well tag bottom with stinger (8809' relative to relive well depth). Well/crater static. SITP 1319 psi at 12:30. Wait on CPUC before beginnig dirt work to place anchor for handrails. Finish setting K-rail anchor. Shut down and secure location. Monitor overnight.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 25 Sec 28 3N 16W S.B.B.M.
A.P.I. No. 03700776 Name Todd Van de Putte (Person submitting report) Title Drilling Manager (President, Secretary, or Agent)
Date 11/21/2016 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

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Start Date	Ops this Report (DOGGR)
2/13/2016	SITP: 1322 psi. Wellhead and crater static. CPUC reps on site. Run handrail (5/8" cable) from k-rail anchor to bridge center upright and tighten with turnbuckles. SITP: 1339 psi at 10:00 hrs. Relief well at mill window. Relief well - Close annular and Pressure up to 66 psi, No reaction at SS 25. SITP: 1337 psi. Relief well pressure up to 140 psi. Little reaction at SS 25. SITP: 1340 psi. SITP: 1377 psi at 11:00 hrs. SITP: 1291 psi at 15:30 hrs. Shut down and secure location. Monitor overnight.
2/14/2016	Strong winds from north. Wellhead and crater stable and static. SITP: 1277 psi. Prepare to bleed tubing during relief well cementing job. install gauge in choke manifold. Open lo-torque to choke manifold. Relief well - set cement retainer in 7" liner. Pump cement. SS 25 - SITP: 1380 psi. Bleed tubing as instructed by cement team on relief well. Relief well - cement in place. SS 25 - close lo-torque to choke manifold. SITP: 1365 psi. OSHA and LACFD on site to inspect bridge hand rails. OSHA led group up hill and edge of 10' shear bank of unconsolidated class C soil. Boots & Coots pointed out to OSHA that it was unsafe place to observe from. SITP: 1333 psi at 12:00 hrs. Wireline company reps on site to discuss wireline work. Bring crane to site and rig up. Wireline equipment on site, unload and spot. SITP: 1321 psi at 13:30 hrs. Rig up e-line lubricator. SITP: 1314 psi at 13:30 hrs. Shut down and secure location. Monitor overnight.
2/15/2016	Strong winds from north. Crater static and stable, no flow. SITP: 1248 psi. Crane on site. No communication with relief well (relief well spotting cement). Bleed pressure off of tee and connect echo-meter to shoot fluid level. First, second, third echometer shoots fluid level @ 2443'. Secure site and shut down for night. SITP: 1236 psi @ 13:30 hrs.
2/16/2016	SITP: 1185 psi. Spot crane. RU lubricator. RIH w/ noise/temp log. Tag cement in tubing @ 8203'. POOH w/ log. Bleed off lubricator. Attempt to RIH w/ CBL. RD CBL and add additional sinker bars. Secure location and shut down.
2/17/2016	SITP: 1107 psi. Lube and bleed 11 bbls into well. SITP: 100 psi @ 9:45 am. M/U lubricator and RIH w/ CBL. CBL indicates top of cement at 7620'. Logout and began bleeding remaining pressure. Swab out tools for perf gun. RIH w/ tubing punch guns. Punch tubing 8005'-8006' w/ 4 spf. POOH. Pressure test per DOGGR. Held 1000 psi. Test good. RD and load out test equipment. Boots and Coots released.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Los Angeles
Well IW #69, Sec. 28, T 3N, R16W, S.B.B. & M.
A.P.I. No. 037-21322 Name P.S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 5, 19 81

Signature P.S. Magruder, Jr.

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO#99831--To install casing patch across leaking stage collar.
1981	
10-19	1st Day. Moving SPS Rig M-30 from La Merced #34 to IW #69. Rigging up.
10-20	2nd Day. Installed 13-5/8" 5000 psi BOPE. Tested blind rams and pipe rams to 4000 psi for 20 minutes. Tested Hydril to 3000 psi for 20 minutes. Set in working platform. Working latch-in-locator and 4 seals out of Otis packer from 8200' to 8191'.
10-21	3rd Day. Pulled out of packer at 8200'. Measured out of well with 2-7/8" tubing. Layed down Otis production equipment. Ran in well with 7-5/8" bit and casing scraper. Circulated well clean at top of liner at 7916'. Pulling out of well.
10-22	4th Day. Finished pulling out of well. Ran in well with 5-5/8" bit and casing scraper to packer at 8200'. Circulated well clean. Pulled out of well. Picked up 340' 2-3/8" non-upset tubing with sawtooth collar. Running in well.
10-23	5th Day. Finished running in well with sawtooth collar. Located fill at 8456' and cleaned out to 8496'. Circulated well clean. Pulled to 8200' and circulated clean. Pulled out of well. Layed down 2-3/8" tubing. Rigged up Welex. Ran collar locator and confirmed stage collar at top 2990', bottom at 2992'. Ran kill string in well. Made up Pengo casing patch.
10-24	6th Day. Made up Pengo 8-5/8" casing patch. Made up bottom element on Pengo patch which split. Layed down Pengo patch while waiting on parts. Changed out 2-7/8" collars to turned down a total of 162 collars. Pulling out of well.
10-26	7th Day. Made up and ran Pengo casing patch. Set bottom at 3010' and top at 2968'. Ran tubing with two seal assemblies and stabbed into packer at 8200'. Pressure tested packer and casing patch to 1500 psi with H&H pump. Held for 20 minutes.

10-27 8th Day. Bled off 500 psi on casing. Circulated out gas from 2500'. Staged into top of liner and circulated out gas cut drilling fluid.

10-28 9th Day. Pulled out of well. Made up Otis 4 seal assembly and safety system. Drifted and hydro-tested tubing to 5000 psi. Ran in well and spaced out tubing. Stabbed in packer at 8200' with 14,000# on packer. Landed on doughnut with 29,000#. Removed working platform.

10-29 10th Day. Removed BOPE. Installed xmas tree and tested to 5000 psi. Circulated polymer completion fluid out of well with lease waste water. Rig released at 6:30 P.M., 10-29-81.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator So. California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #69, Sec. 28, T 3N, R 16W, S.B.B. & M.
A.P.I. No. 037-21322 Name J.P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date April 29, 1983

Signature J. P. Anand

P.O. Box 3249 Terminal Annex Los Angeles, CA 90051 (Address) (213)689-3925 (Telephone Number)

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Date	
1983	
4-20	Rigged down SPS #45 to move to IW #69 Aliso Canyon.
4-21	Moved SPS #45 from Honor Rancho to IW #69 Aliso Canyon.
4-22	Rigged up SPS Rig #45 and circulated well.
4-23	Installed back pressure valve in doughnut. Removed tree and installed 8" x 5,000# BOPE. Pressure tested BOPE with water as follows: Hydril 2,000 psi-20 minutes, pipe rams 3,000 psi-20 minutes, blind rams 3,000 psi-20 minutes, choke manifold, check valve and safety valve 3,000 psi-20 minutes. Test witnessed by DOG, Mr. Rob Habel. Removed back pressure valve from doughnut; released latch-in-locator from Otis packer at 8200', and started out of well laying down 2-7/8" tubing.
4-25	Finished laying down 2-7/8" EU tubing. Installed 5-1/2" rams in BOPE. Made up Otis production tube on 4 seals with locator, one joint of 3-1/2" J-55 tubing, one Otis 2.75" I.D. NO GO nipple, one joint of 3-1/2" tubing, one Otis 3-1/2" sliding sleeve with 2.81" profile (open) eight joints of 3-1/2" EU tubing, one 3-1/2" Camco mandrel with 4,000 psi BST pump out plug in place, one 3-1/2" 8Rd. 5-1/2" 20# Hydril triple seal crossover and started in well Hydro testing to 5,000 psi.
4-26	Finished Hydro testing 5-1/2" casing in well. Installed one joint of 3-1/2" EUE 8Rd N-80 tubing above 5-1/2" casing and 17' of 3-1/2" EUE 8Rd pups. Installed doughnut and installed 3-1/2" sub in top of doughnut to land. Sub would not make up. Removed sub and found bad threads in doughnut. Secured well waiting for new doughnut.

4-27 Installed new doughnut on 3-1/2" tubing. Landed Otis locator in packer at 8200' with 40,000# on locator when doughnut was in place. Installed back pressure valve in doughnut, removed BOPE and installed tree. Pressure tested tree and seals 5,000 psi. Displaced 400 bbls of 69#/cu.ft. polymer completion fluid with 400 bbls of 63#/cu.ft. lease salt water. Released rig to move to Porter #69A at 12:01 p.m.

WELL PROFILE

OPERATOR So. Calif. Gas Co.

WELL # IW #69

FIELD Aliso Canyon

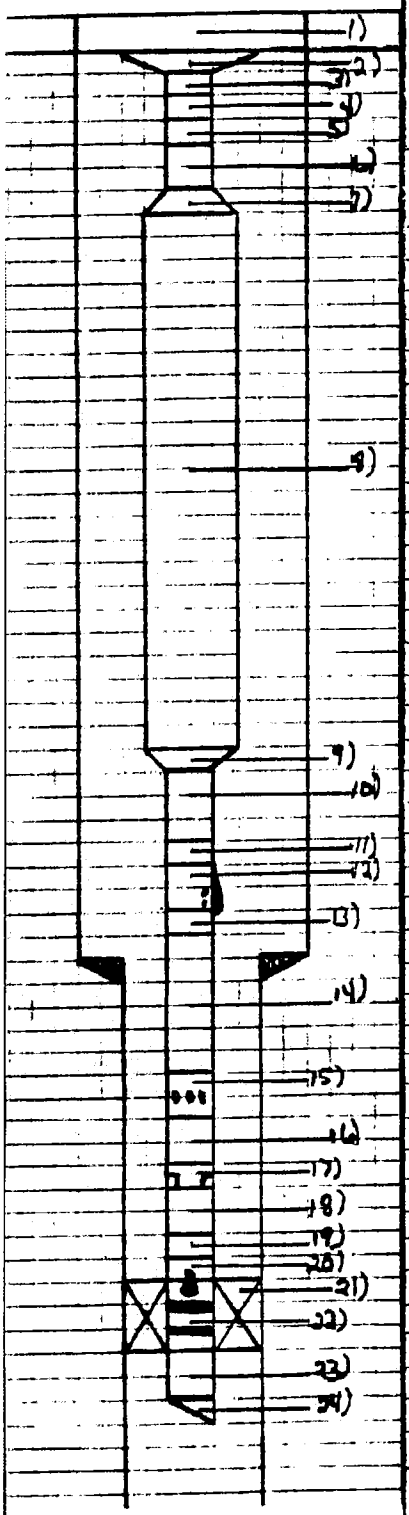
COUNTY Los Angeles

STATE California

DATE 4-26-83

☐ NEW COMPLETION ☒ WORKOVER

	C	G	LINER	TUBING 1	TUBING 2	TUBING 3
SIZE						
WEIGHT						
GRADE						
THREAD						
DEPTH						



ITEM NO.	TUBING DETAILS	LENGTH	DEPTH
1.	K.B.	15.00	Ø
2.	Tubing hanger	.70	15.70
3.	Pup 3-1/2" EUE 8Rd N-80	.65	16.35
4.	Pup 3-1/2" EUE 8Rd N-80	6.15	22.50
5.	Pup 3-1/2" EUE 8Rd N-80	10.02	32.52
6.	1 joint 3-1/2" EUE 8Rd N-80 tubing	31.20	63.72
7.	Cross-over 3-1/2" 8Rd X 5-1/2" TS	.70	64.42
8.	187 joints 5-1/2" 20# K-55 TS tubing	7791.03	7855.45
9.	Cross-over 5-1/2" TS X 3-1/2" 8Rd	.70	7856.15
10.	1 joint 3-1/2" EUE 8Rd J-55 tubing	29.95	7886.10
11.	Pup 3-1/2" EUE 8Rd	4.17	7890.27
12.	Gas lift mandrel 1-1/2" pocket	8.08	7898.35
13.	Pup 3-1/2" EUE 8Rd	1.60	7899.95
14.	8 joints 3-1/2" EUE 8Rd J-55 tubing	242.33	8142.28
15.	Otis XA SSD run upside down 2.750	3.75	8146.03
16.	1 joint 3-1/2" EUE 8Rd J-55 tubing	30.11	8176.14
	closes	1.45	8177.59
17.	Otis (XN) NO GO nipple 2.635	31.00	8208.59
18.	1 joint 3-1/2" EUE 8Rd J-55 tubing	.80	8209.39
19.	Cross-over 3-1/2" 8Rd X 2-7/8" 10Rd	1.16	8210.55
20.	Otis straight slot locator	4.20	8210.55
21.	Otis 6-5/8" PW packer 3.25	4.00	8214.55
22.	Otis 4 seals 2.38 3.29	2.95	8217.50
23.	Otis production tube	.42	8217.92
24.	Otis guide shoe		
	Tubing tail		

Tubing weight up 150,000#
Tubing weight down 133,000#
Landed 40,000# on packer

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well IW #77, Sec. 28, T 3N, R 16W, S.B B. & M.
A.P.I. No. 037-21323 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date July 3, 1980

Signature P.S. Magruder Jr.

PO Box 3249 Terminal Annex, Los Angeles, Cal 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1980	MWO # 99620 was issued to seal off gas leak in this well in the caprock.
5.05.	0 Day. Moved California Production Service Rig on location.
5.06.	1st Day. Circulated 63#/cu.ft. polymer completion fluid from well with 72#/cu.ft. polymer completion fluid. Unable to test BOPE because doughnut leaked. Unlanded doughnut. Unable to release from packer.
5.07.	2nd Day. Worked tubing but were unable to release packer. Made three attempts to run freepoint but tools failed.
5.08.	3rd Day. Chemical cut 2 7/8" tubing at 7,480'. Tested BOPE as follows - blind rams, choke manifold and pipe rams to 4,000 psi; hydril to 2,500 psi with nitrogen. Pulling out of well slowly with collars dragging on casing patches.
5.09.	4th Day. Finished pulling out of well. Ran in with overshot, bumper sub, jars, four drill collars and accumulator. Jarred and worked pipe. Unable to release from packer. Released from fish at 7,480' and pulled out to 2,000' slowly with collar dragging on casing patch.
5.10.	5th Day. Continued pulling out of well with overshot. Changed to N-80 bevelled collars. Ran in with overshot and bumper sub on 2 7/8" tubing. Worked over fish at 7,480'. Ran freepoint and chemical cut 2 7/8" tubing at 8,340'.
5.11.	Rig and crew idle.
5.12.	6th Day. Continued pulling out of well with 860' of tubing fish. Ran in with 70' of 5 1/2" wash pipe, four drill collars, jars and bumper sub and accelerator on 2 7/8" tubing. Worked wash pipe over fish and milled four hours. Pulling out of well.

5.13. 7th Day. Continued pulling out of well with wash pipe. Recovered safety system, two blast joints and latch-in locator stuck in washpipe shoe. Ran in with packer retrieving tool and recovered packer from 8,400'. Ran in to 2,000' with 6 5/8" bridge plug.

5.14. 8th Day. Ran bridge plug on wire line. Set top of plug at 8,528' using reference collars. Ran in well open ended to 8,500'.

5.15. 9th Day. Equalized four sacks of sand at 8,528', backscuttled sand to 8,520'. Pulled out and ran in with 312' of 2 7/8" tubing tail and fullbore retainer. Set retainer at 8,203'. Pressured up to 3,000 psi. Lost 600 psi in 20 minutes. Pulled up to 7,100' in 8 5/8" casing.

5.16. 10th Day. Equalized 50 cu.ft. of 12% HCL and 3% HF acid at 8,515'. Squeezed away 50 cu.ft. at rate of 10 cu.ft./minute with 2,500 psi. Pulled out of hole. Shot four 1/2" holes at 8,434'. Ran in well open ended to 8,520'. Equalized seven sacks sand. Pulled out and ran in to 6,020' with 6 5/8" fullbore packer.

5.17. 11th Day. Located sand at 8,478'. Pulled up to 8,466' and pressured up to 3,000 psi - held for 10 minutes. Pulled up to 8,439' and equalized 50 cu.ft. of 12% HCL and 3% HF acid. Squeezed away 40 cu.ft. at rate of 24 cu.ft./minute with 2,500 psi. Ran in to 8,373', set fullbore and opened bypass and mixed 20 cu.ft. of 12-3 acid, 115 cu.ft. latex class "G" cement 108# cu.ft. Closed tool on acid and squeezed away 107 cu.ft. Pressure locked up at 3,000 psi but bled back to 2,100 psi in 20 minutes. Built up to 2,600 psi and held. Released pressure, had 2 cu.ft. return. Pulled out of well and ran in 5 5/8" bit and casing scraper to top of liner.

5.18. Rig and crew idle.

5.19. 12th Day. Ran in with 5 5/8" bit and 6 5/8" casing scraper. Located top of cement at 8,375'. Drilled out firm cement to 8,478' and circulated well clean. Pulled out of well. Ran in with retainer and set at 8,124' with tubing tail at 8,424'. Pressure tested holes to 2,500 psi which bled off 200 psi in 5 minutes. Pulled to 7,320'.

5.20. 13th Day. Ran in and spotted 50 cu.ft. 12% HCL and 3% HF acid at 8,430'. Pulled to 8,100' and set retainer. Squeezed 40 cu.ft. out holes at 8,434'. Pulled out of well. Set retainer at 8,400'. Ran stab-in tool to 8,350'.

5.21. 14th Day. Pumped 20 cu.ft. acid followed with 50 cu.ft. cement mixed with 12% latex. Squeezed away 10 cu.ft. through holes at 8,434'. Removed rotary table and BOPE. Removed tubing head which was found to be worn out of round. Ran in with fullbore.

5.22. 15th Day. Ran in well and set fullbore at 1,000'. Tested pipe rams to 2,000 psi for 20 minutes. Tested hydril bag to 2,000 psi for 20 minutes. Pulled out and ran in with 5 5/8" junk mill, two junk subs and four 4 1/8" drill collars. Milled on retainer.

5.23. 16th Day. Milled to 8,400'. Pulled out of well. Ran in with new 5 5/8" junk mill. Milled up retainer and cement to 8,444'. Circulated well clean. Pulled out. Running in with retainer.

5.24. 17th Day. Ran in well. Set retainer at 8,113' with tail to 8,430'. Pressure tested holes at 8,434' to 2,000 psi for 20 minutes. Pulled out of well. Shot four 1/2" holes at 8,434'. Ran in with retainer and set at 8,113' with tail to 8,430'. Pressure tested holes to 2,000 psi for 20 minutes. Pulled 1,000'.

5.25. Rig and crew idle.

5.26. Rig and crew idle.

5.27. 18th Day. Continued pulling out of well with retrievable retainer. Ran in with tester, set packer at 8,413'. Opened test tool with medium blow for 5 minutes, increased to strong blow. Closed well in for 10 minutes and pressure built up to 100 psi. Opened test tool, flowed well for one hour. Backscuttled and pulled out. Ran in with 312' of 2 7/8" tail and retrievable cement retainer. Set retainer at 8,127' and pressured up to 3,000 psi which held. Equalized 50 cu.ft. of 12% HCL and 3% HF acid and obtained breakdown at rate of 17 cu.ft./minute with 2,500 psi.

5.28. 19th Day. Pulled out of well. Using wire line equipment, ran 6 5/8" retainer and set at 8,358'. Ran in well with stab-in tool. Preceeded with 20 cu.ft. of acid and followed by 140 cu.ft. of class "G" latex cement, squeezed away 72 cu.ft. out holes at 8,434' with final pressure of 3,000 psi. Held pressure for 20 minutes. Released from retainer and backscuttled.

5.29. 20th Day. Pulled out of well. Removed BOPE and reinstalled 8" 5,000 psi tubing head. Tested pipe rams to 4,000 psi for 20 minutes with water. Ran in to top of liner with 5 5/8" bit, 6 5/8" casing scraper, two junk subs and four 4 1/8" drill collars.

5.30. 21st Day. Continued running in well from 7,300' to top of cement retainer at 8,353'. Drilled on retainer to 8,358'. Pulled out and ran in well with 5 5/8" mill, two junk subs and four 4 1/8" drill collars. Milled from 8,358' to 8,360'.

5.31. 22nd Day. Continued running in well to 8,360' from 7,300'. Milled on junk to 8,361'. Pulled out and ran new junk mill, two junk subs and four 4 1/8" drill collars. Cleaned out junk and cement to 8,445'. Pulled out and ran in with 312' of 2 7/8" tail and retrievable retainer to 2,000'.

6.01. Rig and crew idle.

6.02. 23rd Day. Continued running in well from 1,488' with 312' of 2 7/8" tail and retrievable retainer. Set packer at 8,118' and pressure tested holes at 8,434' with 2,000 psi for 20 minutes. Pulled out and shot four 1/2" holes at 8,433'. Ran in well with 312' of 2 7/8" tail and retrievable retainer. Set packer at 8,122' and pressure tested holes at 8,433' with 2,000 psi for 20 minutes. Pulled up out of liner to 7,300'.

6.03. 24th Day. Pulled out of well from 7,300'. Ran in with tester. Set packer at 8,394'. Opened tool at 11:25 am, had weak blow for 4 minutes, medium blow for 5 minutes and strong blow for 51 minutes. Pulled out and ran in with cement retainer and 312' of 2 7/8" tail. Set retainer at 8,126'. Pressured up to 3,000 psi, held for 20 minutes.

6.04. 25th Day. Ran in well from 7,300' to 8,442'. Backscuttled 70 barrels of dirty salt water. Equalized 50 cu.ft. of 12% HCL and 3% HF acid across holes at 8,433' and squeezed away 30 cu.ft. of acid at rate of 16 cu.ft./minute with 3,000 psi. Pulled out and ran neutron correlation log with collar locator from 8,448' to 5,000'. Shot four 1/2" holes at 8,432'. Ran drillable cement retainer and set at 8,370' on wire line. Ran in well with retainer, stab-in tool to 992'.

6.05. 26th Day. Ran in well from 992' to 8,365'. Established breakdown at rate of 20 cu.ft./minute with 3,000 psi. Pumped 20 cu.ft. of 12% HCL and 3% HF acid followed by 154 cu.ft. of self-stress cement with 0.2% D108 and FIAC with 0.1% D13 retarder. Started squeeze job at 8:34 am, squeezed away 144 cu.ft. of cement out holes at 8,432', squeezed off at 9:08 am with 3,000 psi. Pulled out of well and ran in with 5 5/8" mill to 3,100'.

6.06. 27th Day. Ran in well from 3,100' to 8,370' with junk mill, two junk subs and four 4 1/8" drill collars. Milled to 8,371'. Pulled out and ran in with new mill to 8,371'. Milled to 8,372'.

6.07. 28th Day. Ran in well from 7,300' to 8,372'. Milled for three hours with no success. Pulled out and ran a 5 5/8" rock bit. Drilled at 8,372' for two and half hours. Pulled out and ran in with 5 5/8" mill to 4,000'.

6.08. Rig and crew idle.

6.09. 29th Day. Ran in well from 4,000' with 5 5/8" mill, two junk subs and four 4 1/8" drill collars. Milled and cleaned out from 8,372' to 8,449'. Pulled out and ran in with 312' of 2 7/8" tail and cement retainer. Unable to set retainer. Pulled out to 4,000'.

6.10. 30th Day. Finished pulling out of well with retainer that failed to pack off. Ran in well with same type of retainer and 312' of 2 7/8" tubing tail. Set retainer at 8,118'. Tested holes at 8,432' to 2,000 psi for 20 minutes. Pulled out and ran Audio Analyzer log from 8,445' to 7,200' which showed no gas movement. Ran in well to 7,300' with 5 5/8" mill, two junk subs and four 4 1/8" drill collars.

6.11. 31st Day. Ran in well from 7,300' to 8,449'. Circulated 450 barrels of 63# waste lease water from well with 72# polymer completion fluid. Cleaned out sand, junk and cement to 8,528'. Milled on bridge plug for two and quarter hours. Cleaned out to 8,702'. Pulled out of well and ran in with tester to 7,300'.

6.12. 32nd Day. Ran in well from 7,300' to 8,411' and set tester at 8,411'. Opened tool at 8:50 am. Unloaded well into Baker tank, started flowing well to Gas Company system at 1,550 psi. Flowed well for five hours. Ran Audio Analyzer log from 8,340' to 7,300' which showed no gas movement. Released packer, backscuttled and pulled up to 7,300'.

6.13. 33rd Day. Pulled out of well with tester. Ran in with 5 5/8" mill and 6 5/8" casing scraper. Cleaned out to 8,702'. Circulated well clean. Pulled out. Ran 6 5/8" gauge ring to 8,500'. Ran 6 5/8" packer and set at 8,405'. Ran in with test seals to 2,000'.

6.14. 34th Day. Ran in well from 2,000' with test seals. Stabbed in to packer at 8,405'. Tested packer to 1,500 psi and pulled 20,000# over weight of string to check latch. Pulled out and ran in with seal assembly, two blast joints, 2.205' No-Go nipple and sliding sleeve. Hydrotested to 5,000 psi. Landed tubing with 9,000# on packer.

6.15. Rig and crew idle.

6.16. 35th Day. Landed tubing with 9,000# on packer. Removed BOPE and installed xmas tree. Tested seals and tree with 5,000 psi of oil for 20 minutes. Checked tree bolts. Changed over from polymer to lease water. Rigged down. Rig released at 10:00 pm.

JJM

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #77, Sec. 28, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-21323 Name R. M. Morrow (Person submitting report) Title Agent (President, Secretary or Agent)
Date March 6, 19 87

Signature N.W. Buss for R.M.Morrow

Box 3249, Terminal Annex, Los Angeles, CA 90051 (Address)
(213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO No.: 99722: was issued to remove two casing patches and set new casing patch
1986	
11-21	Loaded out rig to move from Montebello MGS #15-28 to IW #77 at Aliso Canyon.
11-24	Set in rig on IW #77 and rigged up. Removed xmas tree and installed BOPE. Tested blind rams, pipe rams, choke manifold to 3000 psi; and Hydril bag to 2300 psi. Test witnessed by Bill Winkler of the D.O.G.
11-25	Installed pitcher nipple. Released from packer. Laid down tubing hanger. Circulated bottoms up. Pulled out and laid down production equipment. Ran spear on 4-3/4" drill collars in well. Located patch at 2878'; jarred on top swage and secured well.
11-26	Pulled out of well; did not recover top swage. Ran in and jarred swage loose. Pulled out and recovered swage. Made up fishing tools. Ran in well and jarred casing patch loose. Pulled out of hole and laid down patch. Made up millshoe, ran in and located seal.
11-27	Holiday
11-28	Milled swage loose. Ran in with spear to 2918'. Jarred swage loose. Recovered bottom swage from no. 1 patch and top swage from no. 2 patch. Ran in to 2918' and jarred patch no. 2 loose. Pulled out of hole and laid down patch. Ran in with millshoe to 2900'.

1986

11-29 Milled swage loose at 2923'. Circulated clean and pulled out of well. Laid down all fishing tools. Ran in well with 7-5/8" bit and casing scraper to 7347'. Pulled out and made up 5-5/8" bit and 6-5/8" 27# casing scraper. Ran in well to 8405'. Backscuttled clean.

12-1 Rig shut down due to high winds.

12-2 Pulled out of well with bit and scraper. Ran in well with bull plug, 2 seals, locator, ported sub and 8-5/8" 36# RTTS tool on 2-7/8" tubing. Ran in well to 8405'. Unable to set RTTS tool with seals in production packer. Tested annulus to 1500 psi. Leaked 100 psi in 2 minutes. Released packer.

12-3 Using wireline, ran casing collar log from 3100'-2100'. Located stage collar at 2918'. Made up Pengo casing patch on wireline. Set top of patch at 2907', bottom at 2929'. Ran 2-7/8" 6.5# N-80 EUE tubing string consisting of bull plugged Baker 2 seals, one joint 2-7/8" tubing, Otis 2.205" No-Go nipple, one joint 2-7/8" tubing, Otis 2-7/8" sliding sleeve (closed), one joint 2-7/8" tubing, BST gas lift mandrel with pump-out plug set at 2500 psi and 2-7/8" tubing to surface. Drifted and hydrotested to 5000 psi. Spaced out and landed with 10,000# on packer. Pulled 20,000# to check latch. Tested seals, packer and annulus to 1500 psi. Secured well.

12-4 Using wireline, opened sliding sleeve. Changed over from 63#/cu.ft. polymer completion fluid to 3% KCl water. Set back pressure valve in doughnut. Removed BOPE and installed xmas tree. Tested xmas tree to 5000 psi with oil for 20 minutes. Removed back pressure valve. Released rig at 3:00 p.m.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

DIVISION OF OIL AND GAS
RECEIVED
DEC 1 0 1991
VENTURA, CALIFORNIA

History of Oil or Gas Well

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon #29, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00041 Name R.D. Phillips (Person submitting report) Title Agent (President, Secretary or Agent)
Date November 26, 1991.

Signature R.M. Dowell
R. M. Dowell for R. D. Phillips
P. O. Box 3429 Terminal Annex, Los Angeles, CA 90051 (213) 244-2666
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date 1991	
9-20	Set in rig pump. Removed lines from casing and well head. Killed and shut in well.
9-23	Moved in and rigged up. Circulated well and spotted 100 Bbls high viscosity pill.
9-24	Filled well. Installed back pressure plug. Removed tree and installed BOPE. Tested blind, pipe rams and choke manifold to 4000 psi. Tested annular preventor to 2850 psi. BOPE test waived by Steve Fields with D.O.G. ✓
9-25	Replaced packing in donut studs. Pressure tested donut studs to 3000 psi. Released from packer. Began laying down 2-7/8" tubing.
9-26	Rig down for repairs.
9-27	Pulled and laid down 259 joints of 2-7/8" J-55 tubing and production equipment. Ran in with bit and scraper on 2-3/8" drill pipe.
9-28	Finished picking up and running drill pipe to packer at 8042'. Pulled out of well. Made up Otis packer retrieving tool. Ran in well to 7340'.

OG103 (6/91/GSR1/5M) Mailed 12/6/91

9-30 Ran in well with packer retrieving tool to 8029'. Latched into packer at 8040' and pulled 30,000 lbs over string weight. Released packer. Pulled and laid down packer. Made up 4-1/8" bit on 5" 18# scraper, 116' of 3-1/8" drill collars and 945' of 2-3/8" tubing crossed over to 2-7/8" drill pipe. Ran in well to 8000'.

10-01 Ran in well to 9010'. Hit fill at 9067'. Cleaned out to 9072'. Unable to clean out past 9072' (T.D. 9077'). Circulated well clean. Pulled out of well. Made up and ran 5" drillable retainer. Set retainer at 8345'. Pulled up to 8042'.

10-02 Ran in well to 8343'. Pressure tested cement retainer to 1200 psi. Changed well over to clean 2% KCl water. Pulled up to 8075' and dumped 1 sack of 8-12 gravel and displaced with 36 Bbls of KCl water. Waited one hour. Ran in and tagged top of sand at 8335'. Pulled out of well. Ran 3-1/8" perforating gun on wireline. Stopped at 8309' (26' high). Ran in well with 4-1/8" mill.

10-03 Measured in well with drill pipe and tagged fill at 8322'. Changed well over to polymer fluid. Cleaned out fill to 8337'. Milled up cement retainer and pushed down well to 9055'. Unable to get deeper. Circulated well clean. Pulled to kill string.

10-04 Pulled out of well. Ran and set 5" cement retainer on wireline at 8361'. Tested cement retainer to 1200 psi. Ran in well with 1040' of 2-3/8" tubing tail on 2-7/8" drill pipe to 8361'. Changed well over to 2% KCl water with tubing tail at 8346'. Dumped 1 sack of 8-12 gravel and displaced with 34 Bbl KCl water. Pulled to top of 5" liner. Shut well in.

10-05 Ran in well and tagged top of sand at 8351'. Pulled out of well. Shot four 3/8" holes from 8330' to 8331'. Pressure holes to 2200 psi. Bled off 450 psi in 20 min. Ran in well with 5" full bore packer with 30' of 2-3/8" tubing tail and 315' of 2-3/8" tubing above tool crossed over to 2-3/8" drill pipe.

10-07 With tubing tail at 8334', pumped 50 cu.ft. of 12% HCl/3% HF acid and displaced with 28 Bbls of KCL water. Set packer at 8303' and pumped 50 cu.ft. of acid out holes at 8330'. Final injection rate: 1-1/2 Bbls/min at 1700 psi. Pulled up and placed tail at 8120' and packer at 8087'. Squeezed 25 cu.ft. 6% HCl/1-1/2% HF acid followed by 50 cu.ft. Class "G" cement with fluid loss additives. Final squeeze pressure: 1600 psi at 4 cu.ft/min. Displaced holes by 25 cu.ft. Waited 4 hours on cement. Pulled tool loose and reset packer at 8018'. Could not obtain pressure test on packer and/or unloading tool. Pulled to kill string.

10-08 Pulled out of well. Replaced full bore packer with same. Ran in well to 8120'. Packer failed to hold pressure. Pulled out of well. Ran in well with 63' of 2-3/8" tubing tail with drill pipe tester, and 7" full bore packer on 2-7/8" drill pipe. Ran in well to 2569'. Set packer (would not hold pressure). Dropped ball in test sub. Drill pipe would not test.

10-09 Located leak in drill pipe on 27th and 28th joint connection. Ran in well with 7" full bore packer and drill pipe tester on 2-7/8" drill pipe with 60' tubing tail below packer and set at 8120'. Attempted to break down holes at 8330'. Failed to achieve breakdown. Pulled out of well to 2193'.

10-10 Pulled out of well. Made up 356' of 2-3/8" tubing and full bore packer. Tested to 3000 psi. Ran in well to 8324'. Spotted 50 cu.ft. of acid. Established injection rate of 7 cu.ft./min at 1950 psi. Pulled tubing tail up to 8120'. Mixed and pumped 50 cu.ft. of class "G" cement. Displaced with 39-1/2 Bbls KCl water. Squeezed 36 cu.ft. class "G" cement. Final squeeze pressure: 2560 psi.

10-11 Released packer and pulled out of well. Ran in well with 4-1/8" bit on 5" scraper. Tagged top of cement at 8196'. Drilled hard cement from 8196' to 8326'. Pulled to liner top.

10-12 Ran in to 8326'. Drilled out cement to 8343'. Circulated well clean at 8351'. Pressure tested squeeze holes at 8330' to 2160 psi for 30 minutes (410 psi bleed off). Pulled out of well. Made up 30' of 2-3/8" tubing tail on 5" full bore packer with 315' of 2-3/8" tubing crossed over to 2-7/8" drill pipe. Ran in well to 8029'.

10-14 Ran in well with 5" full bore packer to 8334'. Pressure tested holes at 8330' to 2200 psi for 20 min. Pulled out of well. Ran in well with 4-1/8" mill on four 3-1/8" drill collars, 945' of 2-3/8" tubing and 2-7/8" drill pipe to 8347'. Changed over hole fluid to polymer fluid. Pulled up to 8026'.

10-15 Ran in well to 8347'. Milled on 5" bridge plug from 8361' to 8363'. Pushed junk down well to 9035'. Milled for one hour without success. Pulled out of well. Ran in well with 7" RTTS packer with pressure control valve and circulating port to 7998'.

10-16 Rigged up flow lines to Gas Co. withdrawal system. Tested lines to 3000 psi. Flowed well for 12 hours.

10-17 Ran noise log survey from 8560' to 5000'. Anomaly detected across downhole tools.

10-18 Ran noise log survey from 8600' to surface. Anomaly detected across down hole tools.

10-19 Installed and pressure tested surface lines to 2000 psi. Placed well on injection for 10 hours. Surface injection pressure: 2620 psi (120 psi over shut in wellhead pressure). Closed down hole and surface valves.

10-21 Opened subsurface valve. Ran noise log survey from 8600' to surface. Noise log indicated possible gas movement up above the M-P marker. Pumped 30 Bbls of high vis pill followed by 30 Bbls of polymer fluid. Opened circulating port. Rigged down surface flow lines.

10-22 Released packer. Pulled out of well. Ran in well with full bore packer with mechanical circulating port to 7544'. Rigged up flow lines.

10-23 Finished rigging up flow lines. Tested flow lines to 3000 psi. Injected gas to provide 1800 psi underbalance. Placed well on withdrawal.

10-24 Continued withdrawal from well. Total hours on withdrawal: 17-1/2; Final surface flowing pressure: 850 psi.

10-25 Detected leak on surface flow manifold above wellhead. Re-killed well.

10-26 Rigged up and tested surface lines to 3000 psi. Placed well on withdrawal for 9 hours. Shut in well.

10-27 Ran temperature and noise log surveys. Logs indicated no gas movement behind casing. Pumped 80 Bbls to kill well. Dismantled surface flow line. Released packer.

10-28 Bled off 100 psi on drill pipe and casing. Pulled out of well. Made up 4-1/8" mill on 166' of 3-1/8" drill collars and 918' of 2-3/8" drill pipe crossed over to 2-7/8" drill pipe. Ran in well to 9035'. Milled on retainer and pushed it down to 9055'. Milled on retainer at 9055'.

10-29 Ran in well to 9055'. Milled on retainer. Cleaned out to 9066'. Mill stopped. Changed over hole fluid to clean filtered KCl water. Pulled out of well to 2782'.

10-30 Pulled out of well. Installed shooting flange. Ran Gamma Ray/Neutron collar log from 8900' to 7800'. Made up tubing conveyed perforating guns and ran in well to 3862', filling drill pipe so as to provide 500 psi underbalance.

10-31 Ran in well. Ran Gamma Ray/CCL log and correlated guns. Set Otis packer at 8306'. Tested surface lines to 3000 psi. Tested packer to 1000 psi. Dropped bar. No blow or fluid rise to surface. Unsuccessfully attempted to fish drop bar on wireline.

11-01 Attempted to fish drop bar. Fill apparently above bar. Pulled packer loose and pulled out of well. All guns fired. Made up 4-1/4" bit on 5" scraper, 3-1/8" drill collars and 2-3/8" drill pipe crossed over to 2-7/8" drill pipe. Ran in well to liner top.

11-02 Ran in and tagged fill at 9050'. Cleaned out to 9066'. Pulled out of well laying down drill pipe. Picked up 2-7/8" tubing and ran in well to kill string.

11-04 Pulled kill string out of well. Ran and set 7" Otis "BWB" packer on wireline at 8030'. Made up test seals on 2-7/8" 8RD tubing and started in well.

11-05 Finished picking up tubing. Latched into packer. Pulled 20,000 lbs over string weight to check latch. Set 10,000 lbs on packer. Tested packer and seals to 1500 psi. Changed 3-1/8" valve on tubing head and tested to 1500 psi. Pulled out of well. Made up production equipment and ran in well Hydrotesting to 4000 psi. Ran in well to kill string.

11-06 Finished running tubing. Latched in to packer. Pulled 20,000 lbs over string weight to check latch. Landed with 8,000 lbs on packer. Tested seals and packer to 1500 psi. Removed BOPE. Installed xmas tree. Tested to 5000 psi. Opened Otis "XD" sliding sleeve. Changed fluid over to double inhibited 2% KCl. Released rig.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

Distr/Mcel
2/5/82

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well Standard Sesnon #4, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00757 Name J.P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date January 27, 19 82

Signature J.P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99857 was issued to repair a shoe leak at Standard Sesnon #4.
1981	
12-01	1st Day. Moved in and rigged up hoist and pump equipment. Hooked up to Baker tank and filled well. Circulated out gas until well was dead. Well took 29 bbls of completion fluid.
12-02	2nd Day. Removed xmas tree and installed BOPE. Tested blind rams, pipe rams and manifold to 4000 psi. Tested Hydril to 3000 psi. Tests approved by Division of Oil and Gas. Unjayed from packer at 8466'.
12-03	3rd Day. Circulated out gas. Pulled out of well. Layed down production equipment and installed pitcher nipple. Made up Baker retrieving tool and ran in well. Jayed in Baker packer at 8466' and worked packer loose. Pulled 3 stands.
12-04	4th Day. Pulled out of well and layed down Baker packer. Made up 6" bit and 7" 29# casing scraper. Ran in to top of packer at 9016'. Circulated well clean.
12-05	5th Day. Ran to top of packer and circulated well clean. Pulled out of well. Layed down bit and casing scraper. Made up Johnston bridge plug, ran in and set at 8480'. Dumped 7 sacks of sand on top of plug.
12-07	6th Day. Located top of sand at 8443'. Pulled out of well. Shot 6 bullet holes per foot from 8411' to 8409', total of 12 holes. Ran 5 stands 2-7/8" tubing tail below Johnston 7" retainer and set at 8102' with tail at 8411'. Circulated hole fluid out with lease salt water. Pressured annulus to 1500 psi. Pumped 15 cu. ft. salt water and obtained breakdown at 2500 psi. Pumped 75 cu. ft. acid at 11 cu. ft. per minute at 2500 psi. Pumped 65 cu. ft. acid in formation and left 10 cu. ft. in casing. Unset retainer and pulled to 2500'.

12-08 7th Day. Pulled out. Rigged up Mc Cullough and ran Halliburton EZ-drill retainer on wireline and set at 8350'. Ran in well with stab-in seals. Squeeze #1, 50 cu. ft. acid, 100 cu. ft. Class "G" cement with 0.5% CFR-2 and 0.6% Halad 9 but did not get pressure build up. Cleared holes with 50 cu. ft. salt water. Squeeze #2, pumped 10 cu. ft. water, 100 cu. ft. cement and 10 cu. ft. water. Stage pumped cement out perforations but did not get good pressure build up. Cleared holes with 50 cu. ft. salt water. Squeeze #3, pumped 10 cu. ft. water, 100 cu. ft. cement, 10 cu. ft. water, stage in formation final pressure 2800 psi with 80 cu. ft. through holes. Pulled out of retainer.

12-09 8th Day. Pulled out of well. Made up 6" bit, junk sub, jars and 4-3/4" drill collars. Ran in to retainer at 8357'. Drilled on retainer at 8357' and pushed down well to 8366'.

12-10 9th Day. Pulled out of well. Changed bit. Made up junk sub #2. Ran in to 8366'. Drilled on retainer and drilled out cement from 8366' to 8478' (top of bridge plug). Circulated out sand. Pulled out of well and layed down bit. Made up retrieving tool.

12-11 10th Day. Ran in to bridge plug and washed down over fishing neck. Circulated well clean. Pulled out of well and layed down bridge plug. Made up 6" bit and 7" 29# casing scraper. Ran in to 9016'.

12-12 11th Day. Circulated well clean. Pulled out of well. Layed down scraper. Made up Johnston tester. Ran in well and set packer at 8500'. Opened tester and blew tubing dry.

12-14 12th Day. Rigged up triangle and tested lubricator to 4000 psi. Ran noise log from 8500' to surface. Log showed gas movement. Opened by-pass and circulated gas out of tubing. Unset test packer and pulled out of well. Layed down test tools. Made up and ran bridge plug.

12-15 13th Day. Ran in well and set bridge plug at 8480'. Pumped 8 cu. ft. sand on top of plug. Pulled out of well. Rigged up Mc Cullough wireline and shot 4 - 1/2" jet holes at 8408'. Made up Johnston retainer with 300' tubing tail. Ran in to 8406'. Changed hole fluid to lease salt water. Pumped 65 cu. ft. 12-3 acid in formation at 16 cu. ft. per minute at 2900 psi. Unset retainer and pulled 600'.

12-16 14th Day. Pulled out of well. Ran Halliburton drillable cement retainer on Welex wireline and set at 8350'. Made up stab-in seal and ran in to retainer. Obtained breakdown at 2500 psi, 11 cu. ft. per minute. Pumped 50 cu. ft. 12% HCL and 3% HF acid, 10 cu. ft. water, 115 cu. ft. Class "G" cement with 0.2% CFR-2, 0.3% Halad 9 and 10 cu. ft. water. Squeezed 98 cu. ft. cement into formation with final pressure of 2800 psi. Back scuttled out 5 cu. ft. cement. Pulled out.

12-17 15th Day. Finished pulling out of well. Made up 6" bit. Ran in well and circulated waste salt water out of well with 71#/cu. ft. polymer completion fluid. Drilled out retainer 8350'. Drilled out cement and cleaned out to 8455'. Circulated well clean.

12-18 16th Day. Pulled out of well. Made up Johnston retrieving tool and ran in well. Cleaned 20' sand from bridge plug and circulated clean. Pulled bridge plug loose. Pulled out of well with bridge plug. Made up Lynes test tools and ran in well.

12-19 17th Day. Set Lynes packer at 8483'. Flowed gas to surface. Ran Mc Cullough audio analyzer log which showed no gas movement. Back scuttled well and pulled packer loose. Pulled out of well. Layed down tools. Ran in well with bit.

12-20 18th Day. Ran in to top of packer and circulated bottoms up. Pulled out of well and layed down bit and casing scraper. Made up seal assembly, ran in to packer and stabbed in same. Packer is at 9004' tubing measurements.

12-22 19th Day. Pulled out of well. Made up Welex 7" lubricator and tested at 3000 psi. Ran Baker Retrieva-D 7" 29# packer and set at 8466'. Made up Camco and Baker production equipment, hydrotested tubing at 5000 psi. Ran in well and spaced out tubing. Landed tubing on doughnut with 12,000# on packer.

12-23 20th Day. Removed BOPE. Installed xmas tree and pressure tested to 5000 psi. Circulated out fluid with lease salt water. Rig released at 8:00 P.M., 12-23-81.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 44 A Sec. 28, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721455 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/22/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
7/1/2014	Held safety meeting with crews. Unload BOP equipment. Rigged up PPS wire line unit ran in well to 8722 pulled prong. Ran in well to 8722 pulled plug body. Open well 0 psi tubing and casing rigged up and pumped 250 bbls with no fluid returns to surface secured well.
7/2/2014	Held safety meeting with crews open well 0 psi tubing 50 psi casing. Bleed down casing and pumped 75 bbls. tubing and casing 0 psi. Installed BPV nippled down production tree. Nippled up Class III BOP changed pipe rams to 2-7/8" and function test BOP. Rigged up working floor and tubing equipment secured well.
7/3/2014	Held safety meeting with crews. Rigged up WEA test unit test blind rams to 300 low and 5000 high for twenty minutes. (good) Tested pipe rams to 300 low and 5000 high for twenty minutes. (good) Tested Hydrl to 300 low and 5000 high for twenty minutes. (good) Tested all control valves and choke manifold to 300 low and 5000 high for twenty minutes. (All test good). Rigged out test unit backed out hold down studs . Unlanded tubing attempt to release for packer at 8756' secured well.
7/7/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. Rigged up Tiger wire line made up free point tools. Ran in well to 8740' (free) ran in well to 8786' (no movement) Made up 2-7/8 cutter ran in well to 8734' correlated and cut 2-7/8" tubing. Rigged out wire line pulled out of well layed down 2-7/8" tubing to 3600' secured well.
7/8/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. Pulled out of well laying down 2-7/8" tubing layed sdown production equipment. Changed pipe rams to 3-1/2" made up 6.5 spear, bumper sub, jars, (2) 4-3/4" drill collars and instenifer. Measured and picked up 3-1/2" tubing to kill string at 2600' secured well.
7/9/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls.. Measured and picked up 3-1/2" tubing to top pf patch at 3963'. Atrermpted to engag fish. Pulled out of well changed out grapple to 6.796". Ran in well to 3963 engaged fish jarred free. Pulled out of well layed down fish (recovered top cone) Made up spear with 12" extension and stop, bumper sub ,jars ,(2) 4-3/4' drill collars and instenifer. Ran in well to 3910' secured well.
7/10/2014	Held safety meeting with crews open well 0 psi pumped 50 bbls. Ran in well too 3982' engaged fish jarred on patch moved up hole 10' came free. Pulled out of well layed down fish (recovered 20' patch left bottom cone in well.) Made up spear with 6,967 grapple, bumper sub , jars, (2) 4-3/4" collars and instensifer. Ran in well to 3995' measured and picked up 3-1/2" tubing to 6570' secured well.
7/11/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. KCL. Measured and picked up 3-1/2" tubing to 8737' (top of cut off) Pulled out of well layed down fishing tools (no recovery). Made up 8-5/8" casing scraper and bumper sub ran in well 2650' secured well.
7/14/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. Ran in well with scraper to 8726' pulled out of well layed down scraper. Made up 6,76" die tap on 7-3/8" wash pipe ran in well to 5200' secured well.
7/15/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls KCL. Rna in well with wash pipe to top of fish. Worked over fish pumped down annulus at b4 bpm work down to packer ay 874 6'. Pulled out of well layed down wqash pipe (recovered bottom cone of patch) Made up 5-3/4" over shot with 2.875 grapple, bumper sub and jars. Ran in well to 3200' secured well.
7/16/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. Ran in well with fishing tools to top of fish at 8726'. Engaged fish worked free from packers. Pulled out of well layed down tools layed down cut off, top packer (10) joints 2-3/8" tubing ,sliding sleeve ,no/go nipple and bottom seals. Made up 8-5/8" casing scraper and bumper sub ran in well to kill string at 2800' secured well.
7/17/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. Ran in well with casing scraper to packer at 8749. Pulled out of well layed down scraper made up WEA 8-5/8" bridge plug. Ran in well to 8741 secured well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 44 A Sec. 28, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721455 Name Todd Van de Putte Title Senior Storage Field Engineer
(Person submitting report) (President, Secretary, or Agent)
Date 2/22/2017
(Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
7/18/2014	Held safety meeting with crews open well 0 psi tubing and casing pumped 50 bbls. Ran in well with RBP to 7734'. Set and released from RPB tested annulus to 500 psi for ten minutes (good) Dumped 8 sx sand pulled out of well layed down running tool. Rigged out tubing equipment and working floor serviced well head bolts secured well.
7/21/2014	Held safety meeting with crews open well 0 psi tubing and casing well standing full. Nippled down BOP nippled down tubing head and send in for repairs. Attempted to remove pack off unit (drawing shows automatic unit) Nippled up BOP and working floor secured well.
7/22/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls to fill. Rigged up Schlumberger wire line made up USIT/CBL tools. Ran in well to 8724' ran USIT/CBL to surface. Rigged out loggers secured well.
7/23/2014	Held safety meeting with crews work as directed labor only.
7/24/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill. Nippled down BOP nippled up and tested tubing head and primary seals. Nippled up BOP and working floor ran in well with kill string to 2400' secured well.
7/28/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill. Pulled out of well with kill string made up WEA test packer. Ran in well to 7026' set packer tested casing below packer at 700 psi for twenty minutes on test chart. (good) Filled annulus tested to 700 psi for twenty minutes (Bleed down to 100 psi in twenty minutes. Released packer pulled to 6037' set packer tested below packer to 700 psi for 5 minutes (good). fill annulus tested to 1100 psi for twenty minutes. (Lost 700 psi in twenty minutes) Released packer and pulled to 4800' secured well.
7/29/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls to fill. Pulled out of well to 3985' set packer and tested below packer to 700 psi (lost 40 psi in twenty minutes) tested annulus to 2000 psi (bled down to 0 psi in 6 minutes). Released packer and pulled to 3961' set packer and tested below packer to 700 psi. (lost 40 psi in twenty minutes) Tested annulus to 2000 psi (lost 1600 psi in six minutes) Pulled to 3925' tested below packer to 700 psi (good) Tested annulus to 2000 psi (Bled down to 16600 in six minutes found pressure on surface casing circulating at 1500 psi 1 bpm) Pulled to 1500 set packer pressured annulus with returns to surface pipe) Pulled to 1000' set packer pressured annulus with returns to surface pipe. pulled to 696' set packer pressured annulus with returns to surface pipe. Pulled to 500' set packer pressured annulus with returns to surface pipe. pulled to tested below to 700 psi (good) pressured annulus with returns to surface pipe. Pulled to 300' set packer pressured annulus with returns to surface pipe. Pulled to 125; attempted to set packer lug sheared on packer. Pulled out of well layed down packer made up 8-5/8" bridge plug ran in well to 2500' secured well.
7/30/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill. Ran in well with RBP to 4012' set RBP and dump 5 cu. ft. sand Pulled out well layed down retrieving tool made up 8-5/8" test packer. Ran in well to 3984' tested below packer to 2000 psi for twenty minute. (good) Released packer pull to 3958' set packer and tested to 2000 psi for twenty minutes. (lost 100 psi in twenty minutes at port collar) Released packer pulled out of well to 326' set packer tested below packer to 2000 psi for twenty minutes (good) Pumped into annulus with returns to surface pipe. Released packer and pull to 258' set packer pumped into annulus with returns to surface. Pulled to 197 set packer pumped into annulus with returns to surface. Pulled to 133' set packer pumped into annulus with returns to surface. Same results at 72', 24' , 14', and 5'. At 5' tested below packer to 1000 psi for twenty minutes.(good) Released and layed down packer secured well.
7/31/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill. Rigged up Cameron and tested well head seals to 2600 psi for twenty minutes . Pumped in 8-5/8" casing with returns to surface pipe. Work as directed secured well.
8/1/2014	Work as directed labor only.
8/4/2014	Wait on orders work as directed labor only.
8/5/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls to fill made up retieving tool ran in well to 4000' secured well.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator Southern California Gas Company Field Aliso Canyon County Los Angeles
Well Standard Sesnon 44 A Sec. 28, T03N, R16W, S.B.B.&M.
A.P.I. No. 03721455 Name Todd Van de Putte (Person submitting report) Title Senior Storage Field Engineer (President, Secretary, or Agent)
Date 2/22/2017 (Month, day, year)
Signature
Address PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 Telephone Number 818-701-3339

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops this Report (DOGGR)
8/6/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill. Nippled up PGSR rigged up and reversed sand of RBP. Released bridge plug. Pulled out of well laying dowen 3-1/2" tubing layed down and loaded out bridge plug. Ran in well with 3-1/2" tubing to 4700' secured well.
8/7/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill. Layed down and loaded out 3-1/2" tubing. Layed down 4-3/4" drill collars changed pipe rams to 2-7/8". Measured and piped up 2-7/8" tubing to 2500' secured well. Moved Baker tanks to Frew 3 and transfered fluids.
8/8/2014	Held safety meeting with crews open well 0 psi tubing and casing 0 bbls. to fill.Measured and picked up 133 joints. 2-7/8" tubing landed in tubing hanger. Nippled down BOP nippled up production tree secured well.

FORM 103 SUBMIT IN DUPLICATE Δ OSP

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. I.W. #83 - A.P.I. No.037-21455, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Date July 27, 1978 Signed P. S. Magruder, Jr.
P. S. Magruder, Jr.

P. O. Box 3249, Terminal Annex
Los Angeles, California Title Agent
(Address) (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1978	
6-16	Killed well with 610 barrels of 72#/cu.ft. polymer drilling fluid. Removed lateral lines.
6-17	Moved in California Production Service Rig #D-4 and riggged up.
6-18	Rig and crew idle.
6-19	Removed Xmas tree. Installed Class III 5000 psi B.O.P.E. Pressure tested with water and nitrogen, as follows: Blind rams to 4000 psi Pipe rams " 4000 psi Hydril bag " 3000 psi Above tests witnessed and approved by Division of Oil and Gas. Released tubing from packer.
6-20	Well took 50 barrels of drilling fluid overnight. Pulled tubing. Laid down safety system, production equipment and 2 3/8" tubing. Ran 7 5/8" bit with casing scraper to top of packer at 8803'. Circulated well.
6-21	Well took 40 barrels of drilling fluid overnight. Continued pulling out of well. Ran Otis retrieving tool and latched into Permatrieve packer at 8803'. Unable to release packer. Pulled out and removed Otis tool.
6-22	Ran jars and bumper sub above Otis retrieving tool. Engaged packer at 8803'. Tripped jars once. Pulled out of well with packer leaving all but one packing element from packer in well. Ran Otis plug which was set and tested in 6 5/8" packer at 9080'. Pulled above top of 6 5/8" 8802'.
6-23	Ran 2 7/8" tubing to 9048' and circulated well. Halliburton equalized 35 sacks

of sand inside 6 5/8" liner. Pulled out of well. Ran 7 5/8" bit and 8 5/8" 36# casing scraper to top of 6 5/8" liner at 8822'. Circulated well. Pulled above top of 6 5/8" liner at 8822'.

6-24 Pulled out of well. Welex shot four 1/2" holes from 8811' to 8812'. Started in well with open-end 2 7/8" tubing.

6-25 Rig and crew idle.

6-26 Ran in well to top of liner at 8822'. Worked through hanger but could not get below 8846'. Rigged up Dowell and equalized six (6) sacks of sand. Pulled up and waited two hours. Sand bridged at top of liner at 8822'. Backscuttled clean down to 8846'. Re-spotted sand at 8846'. Pulled two stands and located sand at 8820'. Rigged up Dowell - had breakdown of 3 cu.ft. per minute at 1500 psi. Hung tubing at 8818' and pumped 5 cu.ft. water. Mixed 50 cu.ft. of Class "G" cement with 1% D-65 and with 5 cu.ft. water behind and 275 cu.ft. drilling fluid. Pulled to 8398' and squeezed away 32 cu.ft. at 2500 psi.

6-27 Pulled out of well. Rigged up power swivel. Ran 7 5/8" bit on 172' of 4 3/4" drill collars. Drilled out cement from 8695' to 8818'.

6-28 Ran in well and cleaned out fill from 8805' to 8818'. Pulled out. Rigged up Triangle and ran Noise Log which indicated gas still leaking by shoe. Pressure tested holes at to 3000 psi but could not get breakdown.

6-29 Pulled out of well. Rigged up Welex and shot four 1/2" holes at 8811'. Ran in to 8815' with open-end tubing. Pumped in 50 cu.ft. water. Pumped 4 cu.ft. per minute at 2800 psi. Hung tubing at 8818' - pumped in 30 cu.ft. water, 25 sacks of Class "G" cement with 1% D-65 and 5 cu.ft. water behind. Pulled to 8507', squeezed 20 cu.ft. - held 2500 psi on cement for two hours.

6-30 Pulled out. Made up 7 5/8" bit and scraper. Ran in and located cement at 8735'. Drilled out cement to 8818'. Circulated well clean.

7-1 Ran in and located fill at 8803'. Backscuttled clean to 8818' and pulled out of well. Rigged up and ran Triangle Noise Log which indicated gas leakage had stopped. Ran in well with sawtooth collar on 2 7/8" tubing. Cleaned out sand from 8818' to 8819'. Tools stopped.

7-2 Rig and crew idle.

7-3 Pulled out of well with 2 7/8" tubing to 1400' and transmission failed

7-4 Rig and crew idle. (Holiday)

7-5 Pulled out of well. Made up 4 3/4" bit and 4 3/4" drill collar. Ran in well and cleaned out rubber at top of liner hanger at 8822'. Cleaned out sand down to packer at 9060'. Circulated clean.

7-6 Pulled out of well. Made up Otis retrieving tool. Ran in and pulled packer plug loose. Circulated gas cut mud. Pulled out and laid down Otis tools. Measured and picked up 12 joints of 2 3/8" C.S. Hydril tubing (396'). Ran in well - had to work through packer at 9066'. Ran in to 9424' - no fill.

7-7 Ran in well to bottom of liner at 9424'. Pulled out. Made up Lynes drill stem test tools. Ran in and tested all Lynes valves and 1 1/2" test lines.

7-8 Set tester at 8796' with tail to 8816'. Took initial flow and shut in. Opened tool at 8:00 A.M. - did not have enough pressure to flow well in withdrawal line and opened into Baker tank. Bled off drilling fluid and well pressure dropped to zero. Closed valve on Lynes head and pressure built up to 560 psi. Reopened to Baker tank and pressure bled to zero. Closed in and pressure built to 350 psi. Bled off small amount of gas and drilling fluid. Closed tool at 4:00 P.M. and backscuttled gas from tubing.

7-9 Rig and crew idle.

7-10 Bled off well. Pulled tester loose. Rigged up Triangle Noise Log. Ran from 8830' to 7800' indicating no gas leak.

7-11 Pulled out of well. Rigged up Welex and ran Otis Permatrieve packer and set same at 8800' with bottom at 8805'. Ran Pengo 8 5/8" casing patch and set top at 3936' and bottom at 3978' with stage collar at 3958'. Rigged down "GO".

7-12 Rigged up Hydrotest and tubing tongs. Hydrotested tubing in well. Tested each joint to 5000 psi. Changed collars, cleaned pins and applied Baker seal.

7-13 Finished hydrotesting in well. Loaded out power tongs and test tools. Unable to latch into packer at 8800'. Pulled 2 3/8" tubing and tools through packer. Ran back in but still unable to latch into packer. Pulling out slowly - collars hanging on bottom of casing patch at 3978'.

7-14 Finished pulling out of well. Broke off Otis seal assembly and latch-in. Replaced seals and latch-in. Ran back in well, hydrotesting to 5000 psi for one minute. Spaced out tubing and landed with 10,000# on packer. Pulled 25,000# over weight of tubing to check latch. Removed B.O.P.E. and installed Xmas tree.

7-15 Rigged up Associated Services test pumps and tested Xmas tree to 5000 psi. Circulated 72#/cu.ft. polymer drilling fluid out of well with salt water. Ran in and pulled separation sleeve. Set plug in NO-GO nipple and tested packer and seals to 1000 psi. Pulled tubing plug.
RELEASED RIG at 6:00 P.M. (7-15-78).

jp

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well IW #83, Sec. 28, T 3N, R 16W S.B.B. & M.
A.P.I. No. 037-21455 Name J. W. Gourley (Person submitting report) Title Agent (President, Secretary or Agent)
Date May 19, 19 86

Signature N.W. Buss 5/19/86
N.W. Buss for J.W. Gourley

Box 3249, Terminal Annex, Los Angeles, CA 90051 (213) 689-3925
(Address) (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO No. 99613: was issued to replace leaking casing patch and stimulate well with acid wash
1986	
2-20	Loaded out rig at SF #2 and moved rig to IW #83. Set in rig. Rigging up.
2-21	Rigged up pump and manifold lines to well. Pumped 100 bbls. down tubing with no returns. Mixed 50 bbls. pill; pumped down tubing and waited 1-1/2 hours. Circulated well. Total fluid to fill well was 245 bbls. Removed xmas tree. Installed 9" BOPE. Tested blind rams, pipe rams and choke manifold to 3000 psi. Hydril bag to 2300 psi. Tests approved by Stephen P. Mulqueen of the D.O.G. Secured well.
2-22	Worked pipe 6 hours to release from packer. Laid down tubing hanger. Filled well with 60 bbls. Backscuttled gas out of well. Measured out of well, working collars through casing patch. Laid down production equipment. Ran kill string to secure well.
2-24	Filled well with 100 bbls. Pulled kill string out of well. Made up kelly, spear, bumper sub and jars. Installed flow line. Measured and picked up drill collars. Ran in well to casing patch at 3936'. Speared into casing patch and jarred on top swedge. Recovered top swedge. Picked up new fishing tools. Ran in well. Engaged casing patch. Jarred on casing patch and same came loose.
2-25	Filled well with 62 bbls. Laid down casing patch and tools. Ran in well with 7-5/8" O.D. mill and drill collars to bottom swedge at 3938'. Pushed swedge to packer at 8800'. Equalized 50 bbls. of high viscosity pill. Laid down mill. Ran in well with Otis packer retrieving tool, bumper sub, jars, drill collars to kill string.

1986

2-26 Filled well with 18 bbls. Finished running in well with Otis packer retrieving tool. Stabbed into packer. Worked packer loose. Recovered packer and bottom swedge from patch. Made up 5-5/8" bit on 6-5/8" casing scraper. Ran in well to top of liner. Worked into liner. Ran in to top of packer at 9073'. Backscuttled clean.

2-27 Filled well with 10 bbls. Laid down casing scraper. Made up wash tool and ran in well. Located top of liner at 8830'. Pumped pressure 1500 psi at 8840'. Wash tool blanked. At 8865', pumped rate of one bbl. per minute, circulated 400 psi. Depth 8885'; pumped one bbl. per minute, circulated at 900 psi. Depth 8960'; pumped one bbl. per minute 1200 psi; circulated. Laid down wash tool. Picked up 458' 2-3/8" Flush Joint tubing with sawtooth collar.

2-28 Filled well with 14 bbls. Finished running in well with tubing. Located fill at 9420'. Cleaned out rubber and sand to total depth 9424'. Circulated clean and pulled out of well, changing to chamfered collars.

3-1 Filled well with 9 bbls. Finished pulling out of well, changing collars. Laid down 2-3/8" Hydril tubing. Rigged up wireline. Ran junk basket with 7.625" O.D. gauge ring to liner top at 8823'. Ran in 8-5/8" Otis type "PW" packer and set at 8756'. Picked up Pengo 7-5/8" O.D. x 6-3/4" I.D. x 20' casing patch. Stopped at 3008'. Pulled out of well. Picked up 8-5/8" 36# casing scraper with 7-5/8" bit. Ran in on tubing to 2925'. Worked casing scraper to 3050'. Ran in well to 4100' and backscuttled.

3-3 Filled well with 28 bbls. Rigged up wireline. Ran collar locator and measured distance between packer tops 321'. Ran collar log from 4100'-3800'. Made up casing patch. Ran in and stopped at 3008'. Pulled out of well. Ran casing caliper log from 4500'-2800'. Showed oval casing just under 1/8" restriction from 3014'-3010'. Loaded out wireline. Ran kill string and secured well.

3-4 Made up casing patch on 2-7/8" tubing. Ran in and set bottom of patch at 3987', top at 3966'. Rigged up wireline. Ran collar locator from 4300'-3700'. Made up Otis test seals. Ran latch-in to packer at 8756'. Tested with 1500 psi for 30 minutes. Released from packer.

1986

3-5 Pulled out of well and laid down drill collars and kelly. Made up production equipment, hydrotesting tubing in well to 5000 psi. Spaced out and landed tubing with 10,000# weight on packer at 8760'. Pulled 20,000# over up weight to check latch.

3-6 Removed BOPE. Installed 8" xmas tree and tested to 5000 psi. Seal leaked. Removed xmas tree and redressed tubing hanger. Reinstalled tree. Tested to 5000 psi. Circulated fluid out of well with KCl water. Rigged down and released rig at 8:00 p.m., 3-6-86.

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field or County Aliso Canyon
Well I. W. #70, Sec. 29, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-21375 Name P. S. Magruder, Jr. (Person submitting report) Title Agent (President, Secretary or Agent)
Date February 22, 1979, 19

Signature PSM/O.S.

P.O. Box 3249 Terminal Annex, Los Angeles, Ca. 90051 (Address) (213) 689-3561 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
1978	Program: To pull tubing and 5" innerstring. Correct leak in 6 5/8" liner. Set packers in 6 5/8" and 8 5/8" casings and connect with blank tubing. Rerun safety system and return the well to gas storage operation.
12-15	0 Day. Killed well with 400 barrels of 80# brine-polymer completion fluid and began rigging up.
12-16	1st Day. Moved California Production Service Co. rig #D-6 onto wellsite and began rigging up.
12-17	Rig and crew idle.
12-18	2nd Day. Completed rig up. Circulated well. Installed back pressure valve in tubing hanger. Removed tree and installed BOPE.
12-19	3rd Day. Pressure tested blank rams, 2 7/8" pipe rams and choke manifold to 4,000 psi with water and nitrogen for 20 minutes - OK. Tested Hydril bag to 3,000 psi with water and nitrogen for 20 minutes. All tests were witnessed and approved by D.O.G. Released from Otis "Permatrieve" packer at 8,200'. Pulled up to 8,138'.
12-20	4th Day. Laid down 115 joints of 2 7/8" tubing and 121 joints of 2 3/8" tubing. Ran Otis retrieving tool on 2 7/8" drill pipe. Picked up 2,100' of 2 7/8" drill pipe.
12-21	5th Day. Continued picking up 2 7/8" drill pipe. Latched into Otis "Permatrieve" packer at 8,209'. Pulled packer loose - could not pull packer above 8,178'.
12-22	Rig and crew idle.
12-23	Rig and crew idle.

OG103 (6-78-GSRI-10M)

1978 History of Well Report for I.W. #70, Aliso Canyon

12-24 Rig and crew idle.

12-25 Rig and crew idle.

12-26 6th Day. Retrieved Otis 5" "Permatrieve" packer. Ran 7 5/8" bit and 8 5/8" casing scraper on 2 7/8" drill pipe to 3,894'. Circulated and pulled out of well. Ran 5" inside cutter on 2 7/8" drill pipe and cut 5" casing at 3,916'. Started out of well with cutter.

12-27 7th Day. Pulled 5" cutter out of well. Ran 5" spear and attached to top liner hanger. Retrieved 8 5/8" x 5" liner hanger and 14' of casing. Ran 5" overshot and attached to 5" liner. Ran Free-point and found 5" innerstring free above 7,490'.

12-28 8th Day. Released overshot from 5" innerstring and pulled out of well. Ran 5" inside casing cutter to 7,315' and cut casing. Ran 5" overshot and attached 5" casing. Jarred innerstring loose (180,000#) and started out of well.

12-29 9th Day. Finished pulling out of well with overshot and recovered 5" innerstring from 3,916' to 7,315' (3,399'). Ran 5" spear in well and latched into 5" innerstring at 7,315'. Jarred and pulled 190,000# for one hour. Innerstring would not move. Released spear and started out of well.

12-30 10th Day. Finished pulling out of well with spear. Ran 5" cutter to 7,395' and cut 5" innerstring. Started in well with 5" spear.

12-31 Rig and crew idle.

1979

1-1 Rig and crew idle.

1-2 11th Day. Stood by with crew waiting for wind to subside.

1-3 12th Day. Attached 5" spear to innerstring. Pulled out of well. Recovered 80' of 5" casing from 7,315' to 7,395'. Ran 5" cutter to 7,555' and cut 5" innerstring. Started in well with 5" spear.

1-4 13th Day. Attached 5" spear to innerstring. Pulled innerstring from 7,395' to 7,555' out of well (Recovered 160'). Ran 6 5/8" casing scraper to 7,455' and circulated well. Ran 5" inside cutter to 7,875'. Cut 5" innerstring and started out of well.

1-5 14th Day. Finished pulling out of well with 5" cutter. Ran 5" spear to 7,555' and attached to 5" innerstring. Pulled out of well with innerstring from 7,555' to 7,875' (Recovered 320'). Started in well with 5" inside cutter

1979 History of Well Report for I.W. #70, Aliso Canyon

1-6 15th Day. Cut 5" innerstring at 8,190'. Ran 5" spear and attached to innerstring at 7,875'. Pulled out of well recovering 5" innerstring from 7,875' to 8,217'. Ran 6 5/8" casing scraper to 8,217', circulated well, and started out of well.

1-7 Rig and crew idle.

1-8 16th Day. Finished pulling out of well with 6 5/8" scraper. Ran 6 5/8" retrievable plug and retrievable retainer in well. Set plug at 8,200' and retainer at 8,185'. Pressure tested plug to 1,500 psi - OK. Started out of 6 5/8" casing, pressure testing below retrievable retainer. Isolated hole between 7,488' and 7,518'; had pressure loss of 500 psi in 2 minutes. Pressure tested annulus to 1,500 psi with retainer at 7,488'. Pressure loss of 500 psi in 1 minute. Continued testing 6 5/8" annulus to isolate top hole.

1-9 17th Day. Continued testing 6 5/8" annulus. Isolated top hole between 4,291' and 4,296'. Released retainer and pulled out of well. Reset retrievable bridge plug at 7,618'. Spotted 3 sacks of sand on retrievable plug and pulled out of well. Made up 300' of 2 3/8" tubing tail on retrievable retainer and started in well.

1-10 18th Day. Checked sand fill above retrievable plug at 7,618'. Mixed and spotted 5 sacks of sand on plug at 7,618'. Conditioned mud.

1-11 19th Day. With tubing tail at 7,530', mixed spotted and balanced 25 sacks (29 cu.ft.) of class "G" cement with 0.75% "CFR-2" from 7,530' to 7,380'. Pulled tail to 7,200', backscuttled drill pipe; set retrievable retainer and displaced 2 cu.ft. of cement out casing at 1,500 psi in 2 hours. Shut well in for four additional hours. Released retainer and pulled out of well. Started in well with 6 5/8" casing scraper and 5 5/8" bit.

1-12 20th Day. Drilled out cement from 7,488' to 7,530'; cleaned out to 7,598'. Ran retrievable retainer to 4,800'. Pressure tested below retainer to 1,000psi (Held OK). Started out of well.

1-13 21st Day. Finished pulling out of well with retrievable retainer. Made up 180' of tubing tail on 6 5/8" retainer; ran tail to 4,394'. With retainer at 4,204', spotted, equalized, and balanced 25 sacks of class "G" cement with 0.75% "CFR-2" from 4,394' to 4,244'. Pulled tail up to 4,210', backscuttled tubing and set retainer. Displaced 23 cu.ft. at 1,500 psi with pressure dropping to 1,200 psi. Shut well in for four hours. Released retainer and pulled out. Ran 6 5/8" bit and scraper to 5,000'. Did not find any cement. Started out of well.

1-14 Rig and crew idle.

1979 History of Well Report for I.W. #70, Alamo Canyon

1-15 22nd Day. Pulled out of well with bit and scraper. Made up Johnston "Positrieve" squeeze tool and ran in well. Set squeeze tool at 4,324'. Tested casing with 1,500 psi for 15 minutes, OK. Pulled up to 4,268' and set squeeze tool. Pressured up to 1,500 psi. Pressure bled down to 800 psi and held. Pulled out of well and made up Johnston "Bobcat" bridge plug. Ran in well and set bridge plug at 4,400'. With pipe hung at 4,396', pumped 5 sacks of sand on top of bridge plug. Tagged sand at 4,390' and pulled up to 2,000'.

1-16 23rd Day. Pulled out of well. Ran 8 5/8" squeeze tool with 381' of 2 3/8" tubing tail. With 2 3/8" tubing hung at 4,296', pumped 25 cu.ft. of water ahead of 50 sacks of class "G" cement with 0.75% "CFR-2" with 5 cu.ft. water behind. Displaced with 95 cu.ft. of mud. Pulled up to 3,816'. Backscuttled out. Set squeeze tool at 3,435'. Squeezed 3 cu.ft. out holes at 1,500 psi. Pulled out of well. Made up 5 5/8" bit and 6 5/8" casing scraper. Ran in well and drilled out cement from 4,046' to 4,325'. Cleaned out to 4,392'. Pulled up to top of 6 5/8" liner.

1-17 24th Day. Tested from 4,400' to surface with 1,000 psi for 20 minutes, OK. Pulled out of well with bit and scraper. Made up Johnston retrieving tool and ran in well. Circulated sand out and retrieved bridge plug from 4,400'. Ran in well and cleaned out sand from 7,593' to 7,618'. Retrieved bridge plug from 7,618'. Made up 3 7/8" bit and casing scraper. Ran in well to 2,362'.

1-18 25th Day. Ran in well with 3 7/8" bit and 4 1/2" casing scraper. Cleaned out fill from 8,522' to 8,672'. Changed over from 74# to 68# polymer completion fluid. Pulled out of well with bit and scraper (lost two cones in well). Made up Servco 3 7/8" mill on 2 3/8" tubing. Ran in well milling on junk. Pulled up to 7,983'.

1-19 26th Day. Ran in well. Milled on junk from 8,672' to 8,676'. Pulled out of well and made up Midway washover junk shoe with wire fingers inside. Ran in well. Washed over junk from 8,676' to 8,680'. Pulled out of well and recovered no junk. Ran in well to 2,000' with 3 7/8" mill.

1-20 27th Day. Pulled out of well. Made up Servco 3 3/4" junk mill and ran in well. Milled on junk from 8,680' to 8,687'. Pulled out of well. Made up Servco 3 3/4" "Econo-mill" and ran in well.

1-21 Rig and crew idle.

1-22 28th Day. Cleaned out with 3 3/4" O.D. Servco "Econo-mill" from 8,687' to 8,698'. Mill stopped. Pulled out of well, ran new 3 3/4" O.D. "Econo-mill" and cleaned out from 8,698' to 8,702'.

1-23 29th Day. Cleaned out well with Servco "Econo-mill" from 8,702' to 8,704'. Pulled out of well and ran 3 3/4" O.D. Servco junk mill. Measured in well. Corrected clean out depth to 8,764'. Started out of well.

1979 | His(y of Well Report for I.W. #70, (.so Canyon

1-24 | 30th Day. Ran 555' of 2 3/8" tubing tail on 2 7/8" drill pipe to 8,733'. Mixed spotted and balanced 5 sacks of sand in well. Filled from 8,764' to 8,748'. Mixed, spotted and balanced 10 additional sacks of sand in well, waited 2 hours and cleaned excess fill out to 8,712'.

1-25 | 31st Day. Tagged fill at 8,677'. Backscuttled out to 8,710' and pulled out of well. Ran 4 1/2" casing scraper to 8,710'. Pulled out of well. Made up 4 1/2" wash tools and started in well.

1-26 | 32nd Day. Washed liner from 8,710' to 8,230'. Pulled out of well with wash tool. Started in well with sawtooth collar on 600' of 2 3/8" tubing tail.

1-27 | 33rd Day. Cleaned out fill from 8,702' to 8,710'. Circulated well, then backscuttled well. Pulled out of well and installed 4 1/2" wash tools on 600' of 2 3/8" tubing. Started in well.

1-28 | Rig and crew idle.

1-29 | 34th Day. Spotted 15% acid (10% HCL and 5% HF) to Atlas wash tools; washed from 8,710' to 8,620', acid back-check valve failed. Backscuttled acid out of well and started out of well. Drill pipe parted 1,024' from surface. Ran 7 5/8" x 3 7/8" Bowen overshot and 3 1/2" bumper sub to 1,024'; attached overshot to fish and pulled out of well. Recovered all fish (7,116' 2 7/8" drill pipe and 570' of 2 3/8" tubing with Atlas wash tool).

1-30 | 35th Day. Laid down and loaded out 2 7/8" drill pipe. Unloaded 2 7/8" tubing and started in well.

1-31 | 36th Day. Finished picking up 2 7/8" tubing. Installed 555' of 2 3/8" tubing tail and 4 1/2" wash tool on 2 7/8" tubing and started in well.

2-1 | 37th Day. Using 10% HCL and 5% HF acid with inhibitor, washed perforations from 8,710' to 8,230' (30 gallons per foot). Circulated spent acid out of well, and started out of well with wash tools.

2-2 | 38th Day. Pulled 4 1/2" washing tools out of well. Ran 6 5/8" Retrievable retainer to 8,212'. Pressure tested annulus at 1,000 psi for 30 minutes. Pulled 6 5/8" Retrievable retainer out of well. Ran 6 5/8" Otis "Permatrieve" packer and set at 8,194'. Started out of well with line when engine on truck failed. Shut well in with 8,000' of line in well by packing off lubricator and closing Hydril bag.

2-3 | 39th Day. Retrieved McCullough wireline from well leaving wireline setting tool and collar locator.

2-4 | Rig and crew idle.

2-5 | 40th Day. Ran 4 11/16" O.D. x 2 1/2" overshot on 2 7/8" bumper sub to 8,194', attached to wireline setting tool and retrieved from well. Ran Otis seal assembly to 6 5/8" "Permatrieve" packer at 8,192'. Pressure tested to 500 psi, OK. Spotted inhibited mud from 8,190' to 3,800'. Pulled out of well laying down excess 2 7/8" tubing and 2 3/8" tubing tail.

2-6 | 41st Day. Finished pulling out of well. Set 8 5/8" Otis "Permatrieve"

2-6 Continued

packer on electric line at 3,915'. Ran Otis latch-type seal to packer and pressure tested to 1,500 psi, Ok. Pulled out of well, changing collars.

2-7 42nd Day. Made up Otis Production tube and 3.25" O.D. x 16' seal assembly on 3 1/2" Hydril flush joint tubing and started in well pressure testing to 5,000 psi for 1 minute.

2-8 43rd Day. Finished picking up 3 1/2" flush joint tubing; made up Otis 4" x 4' latch-type seal assembly, 10' blast joint, 2.25" NO-GO nipple, 20' blast joint, and 2 7/8" Otis Annular flow safety system; ran assemblys to their pack off seats; checked lower seal spacing when top packer latch was in place (6' of seals below packer, 8' of seals above packer). Installed doughnut and landed in tubing head with 10,800# setdown weight on top packer at 3,915'. Installed back pressure valve in doughnut. Removed BOPE and installed tree.

2-9 44th Day. Pressure tested tree and doughnut seals to 5,000 psi. Removed back pressure valve and retrieved Otis separation tool from safety mandrel. Displaced 68# polymer completion fluid from well with 63# lease water. Closed well in, blind flanged valves and released rig at 7:00 p.m.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

OPERATOR SOUTHERN CALIFORNIA GAS COMPANY FIELD Aliso Canyon

Well No. STANDARD SESNON #5, Sec. 28, T. 3N, R. 16W, S.B. B. & M.

Date January 24, 1978 Signed P. S. Magruder

P. S. Magruder, Jr.

P.O. Box 3249, Terminal Annex
Los Angeles, California 90051 Title Agent
(Address) (213) 689-3561 (Telephone Number) (President, Secretary or Agent)

It is of the greatest importance to have a complete history of the well. Use this form to report a full account of all important operations during the drilling and testing of the well or during re-drilling, altering of casing, plugging, or abandonment with the dates thereof. Be sure to include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, shooting and initial production data.

Date	
1977	
11-23	Rigged up Halliburton pump truck to wellhead. Bled well down to 280 psi. Pumped down 7" x 2 7/8" annulus and bled off tubing to Southern California gas line. Pumped in 320 barrels of 77#/cu.ft. brine-polymer drilling fluid to get circulation. Circulated for 45 minutes. Mud returns weight = 76#.
11-24	Rig and crew idle. (Thanksgiving Day)
11-25	Move in California Production Service Rig #D-6 and equipment from Fernando Fee #33 and set in place.
11-26	Raised derrick. General rig up. Circulated out gas-cut polymer drilling fluid. Installed doughnut plug. Removed Christmas tree and installed Class III 5000 psi B.O.P.E. Rigged up pitcher nipple and flow line.
11-27	Rig and crew idle.
11-28	Rigged up and tested B.O.P.E. with water and nitrogen for 20 minutes each, as follows: Blind rams at 4000 psi - O.K. Pipe rams " 4000 psi - O.K. Hydril bag " 3000 psi - O.K. Tests witnessed by D.O.G. (Pete Wygle). Pulled and unlatched tubing string from Baker Retrieva-"D" packer. Circulated out gas-cut polymer drilling fluid from bottom. Pulling and measuring tubing out of well. Left 2700' in well.
11-29	Finished pulling out Camco production string and laid down Camco annular flow safety system. Ran back in well with Baker Retrieva-"D" packer retrieving tool. Latched in to Baker Retrieva-"D" packer. Pulled packer free and pulled out of well. Laid down Retrieva-"D" packer and retrieving tool. Ran in well with 7" casing scraper and 6 1/8" bit to 8372'. Circulated out gas-cut polymer drilling fluid.

1977

11-30 Circulated out gas-cut brine-polymer drilling fluid. Pulled tubing out of well. Installed GO-Wireline Service lubricator. Ran junk basket with feeler gauge to 8361'. Ran in with Baker Model "F" packer with extension and NO-GO nipple with plug in place. Packer stopped at 4080' - unable to work through. Pulled tubing out of well. Ran in with Servco 6" tapered mill on 7" casing scraper and reamed from 4020' to 4114'. Did not feel any tight spot in 7" 23# casing.

12-1 Ran Servco 6" tapered mill with 7" casing scraper to top of 5" liner at 8361'. Circulated well. Pulled tubing out of well. Re-ran same mill with two 7" casing scrapers and re-reamed casing from 4050' to 4114'. No tight places. Ran to 8361'. Circulated gas-cut brine-polymer drilling fluid. Pulled up to 4078'.

12-2 Pulled out with 6" tapered mill with two casing scrapers. Ran Baker Model "F" packer with extension and NO-GO nipple with plug in place. Stopped at 4080' and unable to work through. Pulled out of well. Made up 6 1/4" tapered mill with two casing scrapers, but mill would not go in first joint of 7" casing. Ran in with 6 1/8" tapered mill on same set-up and reamed tight place from 4046' to 4117'. Pulled out of well. Re-ran same Baker Model "F" packer through lubricator. Stopped at same depth - 4080'. Unable to work through and started pulling out - the packer stopped at 2800' and was unable to pull up. Ran packer back down to 4061' and unable to pull up. Set packer with electric line. Ran open-end tubing to 3014'.

12-3 Pulled out of well. Made up Baker packer mill with retrieving tool on two 4 3/4" drill collars and jars. Ran in and milled two feet of Baker Model "F" packer with extension and NO-GO nipple. Packer came free. Circulated for 45 minutes. Pulled tubing out of well. Laid down tools and Baker packer and extension. Ran in with 6" tapered mill and 7" casing scraper to 3014'.

12-4 Rig and crew idle.

12-5 Finished running in well with 6" tapered mill and casing scraper to top of 5" liner (8393'). Pulled scraper out of well. Made up sawtooth on 2 3/8" tubing and ran to 8517'. Stopped on junk. Could not work tubing deeper. Started out of well.

12-6 Made up 4 1/4" Concave mill on four 3 1/8" drill collars and cleaned out to total depth of 8697' - no fill. Pulled tubing and mill out of well. Made up Baker 7" "F" packer with 3' millout extension and 2.75" Model "R" NO-GO nipple (size 2.75" RZG blanking plug in NO-GO). Ran in well on GO-Wireline Service and set packer at 8330'. Ran 30 stands of tubing in well.

12-7 Ran and set 7" Baker retrievable plug at 45'. Removed B.O.P.E. and tubing head. Installed intermediate string, wellhead and B.O.P.E. Installed 5 1/2" casing rams. Pressure tested intermediate head seal flange and API ring at 3600 psi.

1977

12-8 Pulled Baker 7" retrievable bridge plug out of well. Made up locator seal assembly on 5 1/2" Hydril super flush joint 20# casing and ran 5 1/2" Hydril super flush joint and triple seal casing in well. Hydrotested each joint at 5000 psi for one minute.

12-9 Finished running and Hydrotesting 5 1/2" innerstring. Pressure tested seals and packer down innerstring at 1500 psi for 20 minutes. Pumped inhibited mud behind innerstring. Spaced out and landed with 50,000# set-down weight on packer. Removed B.O.P.E. Installed seal flange and tubing head. Re-installed B.O.P.E. and ran 3000' of tubing back in well.

12-10 Pressure tested 5 1/2" innerstring casing head seal at 5000 psi for one hour. Laid down 2 7/8" tubing. Changed tubing rams from 2 7/8" to 2 3/8" and ran 3000' of tubing in well.

12-12 Pressured tested B.O.P.E. with water, as follows:

Blind rams at	4000 psi	for	20 minutes
Pipe rams "	4000 psi	"	20 "
Hydril bag "	3000 psi	"	20 "

All tests O.K.
Using Archer-Reed piano-wire equipment, pulled equalizing mandrel out of Baker 2.75" blanking plug. Attempted to pull blanking plug, but could not release same. Picked up 2 3/8" tubing string, breaking off collars, applying Baker seal to cleaned pins and installing new tubing collars.

12-13 Made up recovery tool for Baker "RZG" blanking plug on 2 3/8" tubing. Ran to 8335', latched on to plug. Pulled and recovered tubing plug - same was plugged with rubber.

12-14 Using GO-International, set 5 1/2" Baker Model "F" packer at 8300'. Made up Baker seal assembly with four seals; 2 3/8" x 10' blast joint; 1.56" NO-GO nipple; 2 3/8" x 20' blast joint; and, 2 3/8" annular flow safety system. Tested to 5000 psi for one minute. Started in well, Baker sealing tubing pins and Hydrotesting tubing to 5000 psi for one minute.

12-15 Latched seal assembly in Baker packer. Pulled 25,000# over tubing weight on latch (25,000# + 3,900# = 64,000#). Landed doughnut with 10,000# set-down weight on packer. Installed back-pressure valve doughnut. Removed B.O.P.E. Installed Christmas tree and tested tree to 5000 psi. Displaced polymer drilling fluid with lease salt water. Ran blanking plug to NO-GO nipple and pressure tested packer at 2000 psi for 20 minutes. Retrieved blanking plug. RELEASED RIG.

jp

SUBMIT IN DUPLICATE

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

DIVISION OF OIL AND GAS

History of Oil or Gas Well

Operator Southern California Gas Co. Field Aliso Canyon County Los Angeles
Well "SFZU" SS-6, Sec. 28, T 3N, R 16W, SB B. & M.
A.P.I. No. 037-00759 Name J. P. Anand (Person submitting report) Title Agent (President, Secretary or Agent)
Date September 10, 1982

Signature J. P. Anand

P.O. Box 3249 Terminal Annex, Los Angeles, CA 90051 (Address) (213) 689-3925 (Telephone Number)

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests and initial production data.

Date	
	MWO #99001 was issued to repair shoe leak.
1982	
8-12	1st Day. Moved to SS #6. Shut down rig move due to obstructions on location.
8-13	2nd Day. Unloaded rig and rigging up. Set back pressure valve in doughnut. Removed xmas tree. Installed 8" 5000 psi spool with choke and kill line check valve. Installing BOPE.
8-14	3rd Day. Finished installing BOPE and lines to manifold. Tested blind rams, 2-7/8" pipe rams and manifold to 4000 psi. Tested Hydril bag to 3000 psi. Rob Habel with Division of Oil and Gas in Santa Paula declined to witness tests. Backed out doughnut studs and released "J" latch from packer. Worked 2-3/8" tubing seals and production tube 30'. Circulated bottoms up. Measuring out of hole.
8-16	4th Day. Finished measuring out of well. Ran in well with 6" bit and 7" 29# casing scraper, four 4-3/4" drill collars on 2-7/8" tubing to 8286'. Back scuttled and pulled out of well. Ran 4-1/8" bit and 5" casing scraper, 8 joints 2-3/8" tubing with cross-over to 2-7/8" tubing. Located top of packer at 8429'. Back scuttled. Pulling out of well.
8-17	5th Day. Finished pulling out of well with 4-1/8" bit and 5" casing scraper. Ran in well with 10 joints of 1.90" 10 thread upset tubing and 8 joints of 2-3/8" tubing on 2-7/8" tubing to 8725'. Pulled out of well. Layed down 1.90" tubing. Made up Otis packer plug on 8 joints 2-3/8" tubing. Running in well.
8-18	6th Day. Finished running in well. Set Otis packer plug in packer at 8429'. Circulated 74#/cu. ft. polymer completion fluid out of well with clean salt water. Filled 5" 18# liner and 8' of 7" 29# with sand to 8278'. Set 2-1/2 cu. ft. of cement plug with Hercules wireline. Using Mc Cullough wireline, set Baker Model "S" bridge plug at 8260'. Shot eight 1/2" bullet holes at 8220'. Running in well with Howco RTTS cement retainer.

8-19 7th Day. Attempted to break down with water with 2600 psi. Bled off. Equalized 50 cu. ft. of 12% HCL 3% HF acid. Pumped at rate of 1 cu. ft. per minute at 2500 psi through holes at 8220'. Pumped away 40 cu. ft. of acid with no breakdown. Pulled out of well. Using Mc Cullough wireline shot eight 1/2" holes at 8219'. Ran in well. Equalized 12% HCL 3% HF acid. Set tail at 7920' and pumped acid at rate of 1 cu. ft. per minute at 2600 psi. Closed in well with pressure.

8-20 8th Day. Equalized 50 cu. ft. of 12% HCL 3% HF acid. Obtained breakdown of 8 cu. ft. per minute at 3000 psi. Pulled out of well. Using Mc Cullough wireline set Baker Model "S" drillable retainer at 8170'. Made up Baker stab-in on 2-7/8" tubing. Ran in well to 8170'. Filled pipe, stabbed in, established breakdown and squeezed holes at 8219'-8220' with 25 cu. ft. 6% HCL 1-1/2% HF acid followed with 50 sacks of Class "G" cement mixed with 0.5% CFR-2 and 0.6% Halad 9. Squeezed at rate of 2-1/2 cu. ft. per minute. Starting pressure 2200 psi and final pressure 2800 psi.

8-21 9th Day. Finished running in well with 6" bit to drillable retainer at 8170'. No cement above retainer. Drilled on retainer. Retainer went down casing 4' to cement. Drilled retainer and cement to 8225'. Ran in well to 8260'. Drilled on bridge plug. Measured out of well for new bit.

8-23 10th Day. Pulled out of well. Installed new 6" bit on drilling assembly and ran back to 8260'. Displaced 63#/cu. ft. lease salt water from well with 370 bbls of 74#/cu. ft. polymer completion fluid. Drilled up bridge plug at 8260' and 26' of cement to 8286'. Started out of well.

8-24 11th Day. Finished pulling out with 6" bit. Made up Cavins 6" surge tool on 2-7/8" tubing. Ran to 8260' and surged 3 times. Pulled out. (Recovered 1 quart of iron and sand). Made up 4-1/8" bit and 5" casing scraper on 2-3/8" tubing tail and cleaned out to 8400'. Circulated well and started out of well.

8-25 12th Day. Finished pulling out with 4-1/8" bit and casing scraper. Ran Otis retrieving tool on 2-3/8" tubing tail to 8400' and back scuttled to 8429'. Attempted to attach to Otis plug but could not attach to plug. Pulled out with Otis fishing tool. Made up 4" O.D. x 1-7/8" overshot on 2-3/8" hydraulic jars and bumper sub on 2-3/8" tubing tail and started in well.

8-26 13th Day. Attempted to attach overshot to fishing neck of Otis packer plug. Would not attach. Pulled out of well. Dropped overshot in well from surface while disassembling tool. Ran fishing assembly back in well. Screwed into overshot. Attempted to attach to Otis J P plug but would not attach. Pulled out of well (recovered overshot). Made up 4" O.D. overshot with carbide tipped mill control on hydraulic jars and bumper sub. Started in well.

8-27 14th Day. Milled over Otis packer plug mandrel at 8429'. Attached overshot to packer plug mandrel and released from Otis permatrieve packer, circulated well for 3 hours. Pulled out of well retrieving packer plug. Made up Lynes 5" 18# test tools on 2-3/8" tail and ran in well. Using test pump, pressure tested flow tree, chicksans and choke manifold to 4000 psi for 20 minutes.

8-28 15th Day. Set Lynes packer at 8389' with tail to 8410'. Opened tool at 8 A.M. Gas to surface in 10 minutes. Well reached reservoir pressure at 10:30 A.M. Flowed well until 2:30 P.M. Rigged up Triangle and ran noise log from 8362' to surface. Showed noise on 200 HZ curve at 7100' and 7600'. Reran noise log from 7500' to 6600' showed no gas movement.

8-30 16th Day. Flowed well with Lynes test tools for 3 hours. Rigged up Triangle. Ran Audio analyzer log. Waited 3 hours to let well stabilize. Ran Audio analyzer log. Closed in well to relog in the morning.

8-31 17th Day. Ran Audio analyzer with Triangle logging truck from 8340' to surface which showed no gas movement. Back scuttled gas from well. Pulled out of well. Loaded out Lynes tools. Layed down drill collars and Kelly. Ran in well with Otis seals and locator sub on 2-3/8" and 2-7/8" tubing. Tested seals and packer to 1500 psi. Pulling out of well.

9-01 18th Day. Finished pulling out of well. Rigged up hydrotest and ran 2-3/8" and 2-7/8" tubing applying Baker seal drifting and hydrotesting to 5000 psi. Spaced out and landed tubing on packer with 6000#. Pulled 20,000# over weight of tubing to check latch. Installed back pressure valve in doughnut. Remove BOPE and installed xmas tree. Pressure tested xmas tree to 5000 psi with oil for 20 minutes. Circulated polymer completion fluid out of well with waste salt water.

9-02 19th Day. Rigged down and lowered derrick. Rig released at 12:30 P.M., 9-2-82.

RESOURCES AGENCY OF CALIFORNI(
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Standard Sesnon 8
A.P.I. No. 037-0061

Field: Aliso Canyon

County: Los Angeles
Surface Location:

Title: ENGINEER
(President, Secretary, or Agent)

Date: 06/05/2007

Signature:
(Person Submitting Report)

818 701 3251
Telephone Number:

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

History must be complete in all detail. Use this form to report all operations during drilling and testing of the well or during redrilling or altering the casing, plugging, or abandonment, with the dates thereof. Include such items as hole size, formation test details, amounts of cement used, top and bottom of plugs, perforation details, sidetracked junk, bailing tests, and initial production data.

Start Date	Ops. DOGGR Rpt
01/26/2007	
04/02/2007	Move rig and equipment to SS-8. Spot equipment. Rig up and tie down hoist rig up.
04/03/2007	Spot tanks move in fliuds. Rigged up to kill well. Open well 500 psi casing 250 tubing. Bleed down tubing pumped 180 bbls while bleeding down casing (returns to surface.) Rigged up.
04/04/2007	Nippled down production tree nippled up class III BOP and choke manifold. Rigged up WEA testers. Tested blind rams to 5000 psi for twenty minutes. Removed BPV installed 2-7/8" tubing. Tested pipe rams to 5000 psi for twenty minutes. Tested Hydril to 3500 psi for twenty minutes tested all valves and manifold to 5000 psi (all tests were good) B.Hesson DOGGR wavied witness and inspection of BOP.Rigged up working floor and tubing equipment. Secured well.
04/05/2007	Unlanded tubing at 50,000 pulled to 70,000 pulled free. Pulled out of well layed down gas lift mandrel. Layed down 2-3/8" tubing (Recovered stuck wire line tools.) found 2-3/8" sliding sleeve cut (sand or gas) in half. RAn in well with 2-7/8" tubing to 7600'. Secured well.
04/06/2007	Pulled out of well laying down and loading out 2-7/8" tubing. Changed out tubing equipment for Hydril PH-6 Measured and picked up 80 joints PH-6. Secured well.
04/09/2007	Pulled out of well with kill string. Made up 3-3/4" shoe, (3) joints 3-3/4" wash pipe, jars, (6) 3-1/8" drill collars,crossover (40) joints 2-3/8" PH-6 tubing. Measured and picked up 2-7/8" tubing to 5500'. Secured well.
04/10/2007	Measured and picked up 2-7/8" PH-6 to top of fish at 8509'. Nippled up PGSR picked up power swivel. Pumped 50 bbls. Hi-vis polymer displaced with 50 bbls. water.(Returns to surface) Worked over stub cleaned out to packer at 8575'. Reversed circulated clean layed down power swivel. Pulled out of well to 7600'.
04/11/2007	Pulled out of well to kill string. Secured well Installed laterals at P-69A and removed casing withdrawl lateral MA1A.
04/12/2007	Pulled out of layed down shoe Made up 3-3/4" out side cutter, (3) joints 3-3/4" wash pipe (6) 3-1/8" drill collars ran in well to top of fish at 8505'. Worked over fish to 8552'. Picked up power swivel cut 2-3/8" tubing 10' below XN nipple at 8552'. Layed down power swivel pulled out of well to kill string at 5000'. Secured well.
04/13/2007	Pulled out of well layed down (3) joints 3-3/4" wash pipe (Recovered bottom part of Sliding sleeve 1 joint 2-3/8" tubing XN nipple with PXN plug 10' cut-off 2-3/8" tubing) Made up overshot with 2-3/8" grapple,bumper sub,jars,(6) 3-1/8" drill collars and instensifer. Ran in well to top of fish at 8552' engaged fish. Pulled 4,000 over pulled out of well to kill string at 2231'. Secured well.
04/16/2007	Pulled out of well with kill string broke down fishing tools. (Recovered 25' 2-3/8" tubing and seal assembly.) Made up 7" casing scraper, bumper sub ran in well tagged liner top at 7756'. Pulled out of well layed down 7" scraper. Made up 5" casing scraper ran in well with 2-3/8" and 2-7/8" PH-6 tubing to 2500' kill string. Secured well.
04/17/2007	Ran in well with 5" casing scraper to packer at 8575'. Pulled out of well layed down casing scraper. Ran in well with kill string to 2500'. Secured well.
04/18/2007	Pulled out of well with kill string. Made up HES 7" RTTS test packer with 5" cup and knock out below. Ran in well to 1991' set packer filled well with 50 bbls test casing to 2760 for ten minutes test good. Release packer ran in well to 4040'. Set packer filled well with 65 bbls tested casing from 4040' to surface at 1880 psi test good. Released packer ran in well to 5995' set packer filled well with 50 bbls. test from 5995 to surface to 1000 psi for 10 minutes test good. Released packer ran in well to liner top (with cups in 5" liner 7772') set packer filled well with 50 bbls. test casing from 7756' to surface at 500 psi for ten minutes. Test lap to 500 psi for ten minutes. Dropped bars sheared knock out released packer pulled out of well to 7000' Secured well
04/19/2007	Pulled out out well with packer. Layed down packer and cup assembly. Made up 2.518 spear bumper sub, jars, (6) 3-1/8" drill collars, instensifer. Ran in well to packer at 8575. Engaged packer attempted to release packer. Jarred on packer attempted tp release spear picked up power swivel and attempted to release spear. Secured well.
04/20/2007	Rigged up to circulate. Circulate and jar on packer pressured up. Attempted to release spear jarred on packer. Secured well
04/21/2007	Rigged up Tiger wire line made up 3/4" wire line tools with CCL. Ran in well to 8560' (top of jars could not get deeper) Pulled out of well with wire line. Jarred on fish at 90,000 over string wt. (jars quit) Made up string shot ran in well to 8560' attempted backoff (did not back off) Pulled oout of well with wire line. Secured well.

RESOURCES AGENCY OF CALIFORN(
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company
Well: Standard Sesnon 8
A.P.I. No. 037-0061

Field: Aliso Canyon

County: Los Angeles
Surface Location:

Title:
(President, Secretary, or Agent)

Date: 06/05/2007

Signature:
(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300

Telephone Number:

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Start Date	Ops. DOGGR Rpt
04/23/2007	Rigged up swivel torqued pipe to left. (backed off lost 4000 pipe wieght) Rigged up Tiger wire line ran in well with CCl (Pipe backed off at top of drill collars.) Rigged down wire line . Pulled out of well layed down (40) joints 2-3/8" PH-6 tubing. Ran in well with kill string to 2300'. Secured well.
04/24/2007	Pulled out of well with kill string. Made up over shot with 3-1/8" grapple measured and picked up (30) PAC drill pipe. Spider in well with 2-7/8" PH-6 tubing to 8340'. Rigged up and pumped 50 bbls. hi-vis polymer and displaced with 34 bbls. Ran in well to 8371' Engaged fish attempted manuel backoff.
04/25/2007	Rigged up swivel applied left hand torque at 2000 ft. lb. (backed off in pac drill pipe) Rigged up Tiger wire line made up 10' string to max torque. Made up 10' string shot ran in well to 8561' applied 4 round left hand torque (did not back off) Pulled out of well with wire. Worked torque down hole (Backed off) ran in well with CCL (backed off at bottom of jars) Rigged down wire line pulled out of well to kill string.
04/26/2007	Pulled out of well layed down fishing tools. (recovered intensifer, (6) 3-1/8" collars and jars) Layed down fish. Made up 4" washover shoe 5" casing scraper and bumper sub. Ran in well to top of fish at 8571'. Rigged up and reversed circulated clean. Circulated for logs. Pulled out of well to kill string at 1500'. Secured well.
04/27/2007	Pulled out of well layed down casing scraper. Rigged HES loggers made up CBL and Cast V logging tools for 5" casing started in well (Head shorted out) pulled out of well repaired head. Ran in well to 7756' (Top of line) turn on Cast V tool (tool would not function) Pulled out of well work on computer panel. Ran in well to 7756' start logging tools stopped working. pulled out of well rigged down loggers. (wait on looing truck. truck arrived on location at 8:30 pm.) Rigged up and ran in well strart logging from 8560' in 5" liner.
04/28/2007	Loged 5" liner from 8560' to 7756' Ran 5" imaging tool from 7756' to 8560'. Pulled out of well made up 7" cast V logging tools. Logged 7" casing from 7756' to surface. Rigged down loggers ran in well with kill string to 1800'. Secured well.
04/30/2007	Rig stand by, reviewed work program.
05/01/2007	Pulled out of well with kill string.Made up 4" mill shoe, extension, junk sub, jars, measured and picked up (6) 3-1/8" drill collars. Ran in well with 2-7/8" tubing to top of packer at 8571'. Nippled up PGSR and picked up power swivel. Broke circulation and worked over bumper sub. Milled on packer. Pulled to liner top at 7756'. Secured well
05/02/2007	Milled on packer for 3 hours (made 1' stopped milling) Circculated well clean. Pulled out of well layed down mill and extension. (mill wore out small piece of packer in extension) Made up mill and tolols ran in well to 3000'. Secured well. (starting 24 hr. Operations)
05/03/2007	24 hr. operations Ran in well to top of fish at 8571' Rigged up power swivel milled on packer for 5 hours. (made 1') circulated well clean pulled out of well layed down shoe. Made up shoe #3 ran in well. Rigged up power swivel milled on packer.(have milled 3'of packer) E.O.T.
05/04/2007	24 hr operations. Milled on packer to 8573' Circulated well clean pulled out of well layed down mill shoe. Made up shoe #4 ran in well to 8571' worked over with mill shoe to 8573' Milled on packer.(Started losing fluid to well. Packer moving down hole layed down power swivel. Pushed paqcker down hole to 8846' (Tagged fill) Pulled out well to kill string 2613' (suspend 24 hr operations) Secured well.
05/07/2007	Pulled out of well layed down mill shoe. Made up overshot with 3-1/16" grapple and 2-3/8" screw in sub, bumper sub, jars (6) 3-1/8" drill collars and intensifer. Ran in well to top of fish at 8846'. Worked over fish (over pulled 6,000 ande drug up hole for 120') Pulled out of well to 7750'. Secured well
05/08/2007	Pulled out of well laying down 2-7/8" PH-6 tubing to kill sting at 2200. Secured well
05/09/2007	Pulled out of well layed down 2-7/8" Ph-6 tubing and 2-7/8" Pac drill pipe. Layed down drill collars and fishing tools.(Recovered packer mandrel and bumper sub) Changed out tubing equipment to 2-7/8" eue tubing. Picked up bridge plug measured and picked up 2-/78" tubing to 4500'. Set bridge plug released from BP filled and tested caasing to 500 psi. Pulled out of well. Secured well.
05/10/2007	Open well pulled out of well. Rigged down tubing equipment and working floor nippled down class III BOP. Nippled down tubing head and seal flange. Removed primary seals replaced primary seal. Installed 13-3/8"X 11" crossover spool. Nippled up double gate closed blind rams to secure well.

RESOURCES AGENCY OF CALIFORN
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company | Field: Aliso Canyon | County: Los Angeles
Well: Standard Sesnon 8 | Surface Location:
A.P.I. No. 037-0061 | Title: (President, Secretary, or Agent)

Date: 06/05/2007 | Signature: (Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 | Telephone Number:

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Start Date	Ops. DOGGR Rpt
05/12/2007	Nippled down double gate. Nippled up and tested tubing head.(tested primary and secondary seals to 5000 psi fir twenty minutes) Nippled up class III BOP.Set in working floor rigged up tubing equipment. Ran in well with retieving head to 4700'. Secured well.
05/14/2007	Released bridge plug at 4750'. Pulled out of well layed down B.P. Measured and picked up 2-3/8" tubing. Measured and picked up 2-7/8" tubing. Pulled out of well to 2500' kill string.
05/15/2007	Pulled out of well with kill string. Made up and solid tested 5" HES packer. Rigged up WEA test truck made up bar tools. Tested in well with 2-3/8" tubing. Made up HES G-77 hydraulic set packer, 6' 2-7/8" pup joint On/Off tool with 2.205" on/go, (1) jt. 2-7/8" tubing, XD sliding sleeve, (1) jt. 2-7/8" tubing, Gas lift mandrel and second gas lift mandrel at 3300'. Tested tubing in well to 5000 psi with bar tools. with bottom packer at 8450' and top packer at 7965' spotted 80 bbls. KCL with bio-cide and corrosion inhibitor from 8450' to 7400'. Set 5" packer at 8450' (Filled annulus and pumped down tubing with no returns to surface) Set 2000# compression. Dropped ball set top packer at 7665' at 1200 psi pressured to 1800 psi to blow out seat. Set 10,000# compression tested annulus to 500 psi. Secured well
05/16/2007	Released from on/off tool respace well landed in tubing hanger with 10,000# compression. Filled and tested annulus tp 500 psi for twenty minutes. Installed back pressure plug nippled down class III BOP nippled up production tree removed back pressure plug. Rigged down.
05/17/2007	Rigged down rig and equipment. Installed lateral lines. Moved rig and equipment to FF32E cleaned location.

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

HISTORY OF OIL OR GAS WELL

Operator: Southern California Gas Company | Field: Aliso Canyon | County: Los Angeles
Well: Standard Sesnon 8 | Surface Location:
A.P.I. No. 03700761 | Dan Neville | Title:

(President, Secretary, or Agent)

Date: 1/3/2011 | Signature:

(Person Submitting Report)

Address: PO Box 2300, SC9365, Chatsworth, CA, 91313-2300 | Telephone Number: 818-700-3810

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Start Date	Ops. DOGGR Rpt
10/29/2010	Moved in workover rig. Spotted pump and tanks. Rigged up.
11/1/2010	Opened well 2700 psi tubing and casing. Rigged up and pumped 48 bbls 9.4 ppg KCl down tubing. Killed well per schedule with 288 bbls KCL water. Installed back pressure plug and nippled down production tree. Nippled up class III BOP. Removed BPV.
11/2/2010	Continued nippling up BOP. Rigged up tester and pre- tested BOP. Found a 2" check valve, 2" control valve and 3-1/8" control valves leaking. Shut down for repairs.
11/3/2010	Rigged up tester and tested blind rams to 300 psi low and 5000 psi high for twenty minutes. Tested pipe rams to 300 psi low and 5000 psi high for twenty minutes. Tested Hydril to 300 psi low and 3500 psi high for twenty minutes. Tested choke manifold and all control valves to 300 psi low and 5000 psi high. All tests were good and witnessed and approved by A Stewart (DOGGR.) Open well 0 psi tubing and casing. Filled well with 50 bbls KCl water. Unlanded tubing and released sheared out G-77 packer at 7659'. Released HES PLS packer at 8477'. Pulled out of well to 7000'.
11/4/2010	Filled well with 40 bbls. Pulled out of well and laid down packers and production equipment. Made up mule shoe. Measured and picked up 23 jts 2-3/8" tubing . Ran in well with 2-3/8" and 2-7/8" tubing to 8700'.
11/5/2010	Filled well with 30 bbls. Ran in well and tagged at 8846'. Rigged up HES cementers. With open ended tubing at 8844' pumped 3 bbls fresh water, followed by 38 sacks (39 cu.ft) cement slurry. Displaced with 45 bbls KCl water. Cement in place at 9:15 am. Estimated top of cement at 8395'. Pulled out of well. Made up 5" casing scraper and bumper sub. Ran in well to liner top at 7615'.
11/8/2010	Filled well with 60 bbls. Ran in well to 8662' and tagged cement (top of cement 200' low). Pulled out of well and laid down casing scraper. Ran in well to liner top at 7660'.
11/9/2010	Filled well with 32 bbls. Ran in well to 8660'. Rigged up HES cementers. With tubing at 8660' mixed and pumped 5.7 bbls (31 cu ft.) class "G" cement. Displaced with 46 bbls KCl water. Pulled out of well to 8040' and reversed two tubing volumes with 1/2 bbl cement returns to surface. Cement in place at 9:00 am. Pulled out of well. Made up 5" casing scraper and bumper sub. Ran in well to liner top at 7675'.
11/10/2010	Filled well with 36 bbls. Ran in well to 8583' and tagged cement (F. Pineda DOGGR witnessed and approved tag). Tested to 400 psi. (Bled down to 0 psi in 3 minutes). Pulled out of well and laid down casing scraper. Nippled up shooting flange. Rigged up Western wire line and made up perforating guns. Ran in well, tagged and shot 4 spf from 8438' to 8436'. Pullled out of well. Tested to 400 psi (bled down to 0 psi in 3 minutes). Made up guns and ran in well. Shot 4 spf from 8418' to 8416'. Pulled out of well and rigged out wireline. Tested annulus to 400 psi. (bled down to 0 psi in 3 minutes). Made up 5' HES test packer and ran in well to 3100'.
11/11/2010	Filled well with 26 bbls. Ran in well to 7790' and set 5" RTTS packer. Tested annulus to 500 psi for twenty minutes (good). Ran in well to 8339'. Set packer and tested annulus to 400 psi (bled down to 0 psi in 3 minutes). Pumped down tubing to 1500 psi (bled down to 1350 in twenty minutes. Released packer and pulled out of well. Laid down packer. Ran in well to 7660'.
11/12/2010	Filled well with 24 bbls. Ran in well to 8464'. Rigged up HES cementers. Mixed and pumped 10 cu.ft class "G" cement. Pulled to 7854' and reverse circulated 80 bbls. Shut down for repairs.
11/15/2010	Filled well with 50 bbls. Pulled out of well laying down 2-7/8" tubing. Rig down for repairs.
11/18/2010	Filled well with 50 bbls. Pulled out of well laying down 2-7/8" and 2-3/8" tubing. Ran in well 3422' (112 jts 2-7/8" tubing). Landed tubing in hanger. Nippled down BOP and nipped up production tree. Rigged down.
11/19/2010	Rigged down and loaded out equipment. Installed laterals and hand rails. Cleaned location.

WORKOVER PROGRAM

OPERATOR:	**Southern California Gas Company**
FIELD:	**Aliso Canyon**
WELL:	**Standard Sesnon 8**
COUNTY:	**Los Angeles**
API:	**037-0061**
OBJECTIVE:	**Plug back storage zone**
DATE:	**September 17, 2010**
ELEVATION:	**2704' AGL, 7' KB**

PRESENT CONDITIONS:

Total Depth: 8873'

Effective Depth: 8846' (In 2007 a 5" packer was milled and pushed to 8846')

Casing:

0' - 812'	13-3/8"	54.5 #	J-55	Cemented
0' - 7855'	7"	23 – 29#	J-55 N-80	Cemented 7855' is top of exit window
7756'-8873'	5"	18#		Perforated intervals 8580'-8855'

Tubing:

0' – 7653'	2-7/8"	6.5#	N-80	EUE 8R
7653' – 8453'	2-3/8"	4.7#	N-80	EUE 8R

Packers

7659′	7″	HES G77
8448′	5″	HES PLS

WORKOVER JUSTIFICATION

SS8 was originally drilled in 1946 and redrilled in 1956. A workover in 1977 discovered holes in the liner above the storage zone. These holes were scab cemented but the success of that job was questionable. In 2006, a shoe leak was discovered in the well which caused well SS21 up structure to pressure up. A workover in 2007 attempted to isolate the bad 5" liner with a dual packer completion but a recent temperature survey shows that gas is still moving above the storage zone. It appears that gas is moving around the lower packer at 8448' and then through holes in the 5" liner at 8100'. Storage gas is likely migrating through the Del Aliso sand (8100') to the top structure well SS28 and causing it to pressure to 1100 psi.

The cost to repair this well properly would involve running multiple patches in the 5" liner as well as squeezing cement outside the liner. In addition, the well appears to be damaged and in need of some sand control. A recent sand test had the well at 5 MMCFD at 54 BCF and 8 percent erosion. At the lower inventory range 0 – 37 BCF, the well contributes less than 5 MMCFD to deliverability. The cost of a proper repair could be in the $700,000 - $1million range depending on the type of sand control employed. For this reason, it is not cost effective to repair this well. The well may at some point in the future be a candidate for reperf in shallow zone or redrill.

The objective in this workover is to plug back the storage zone by laying a cement plug to about 8480', shooting holes in the 5" at 8475', setting a retainer at 8470' and then attempting to squeeze cement outside the 5" liner. The 2-7/8″ tubing will be re-run and the well will be monitored for some time to confirm that the storage zone is successfully isolated.

WELL WORK PROGRAM

1. Move in and rig up workover rig.
2. Check tubing and casing pressure and circulate KCL/bleed gas if needed to rekill well. Well was killed on 9/16/10 with 9.4 ppg KCl.

3. Set 2-7/8"-4 LH Shaffer BPV. Install Class III BOPE. Fit BOPE with 2-7/8" pipe rams and CSO. BOPE must have connection and valve below the blind rams.

4. Test BOPE system as per Company Instructions 224.005. Test the pipe rams to 5000 psi. Test the annular preventer to 3500 psi. The DOGGR must be notified in advance to witness the BOPE testing

5. Install a joint of 2-7/8" N-80 tubing in tubing hanger with safety valve in top.

6. Pull both packers and lay down all tubing accessories.

7. Run open ended tubing to top of junk packer at 8846' (effective depth). Lay a balanced cement plug in the 5" liner from 8846' to 8480'. Pick up out of the cement and reverse out excess cement.

8. Run 5" 18# casing scraper to 8480' and tag top of cement.

9. RU wireline and perforate the 5" liner at 8475' with four , ½" holes. Attempt to pump into the holes to achieve a rate high enough to squeeze cement. Set a wireline retainer at 8470'.

10. Run in tubing and stab into retainer.

    a) Establish breakdown and based on breakdown pump appropriate cement additives and volumes.

    b) Displace lead of cement to retainer. Stab in to retainer. Note: hold adequate back pressure to keep cement from falling away due to heavy column in tubing. Cease pumping and stab into retainer. Pump and squeeze cement to lock up. Reverse out excess. (If squeeze cannot be obtained, over displace and follow with additional volume of cement.)

11. Run 2-7/8" production tubing to 7650' (100 ft above liner top). Add fresh double inhibited biocide to the system and circulate to change over the wellbore volume.

12. Close rams and test casing to 500 psi for 20 minutes.

13. Land tubing in hanger. Install BPV and remove BOPE.

14. Install tree and test to 5000psi.

15. Rig down and move out.

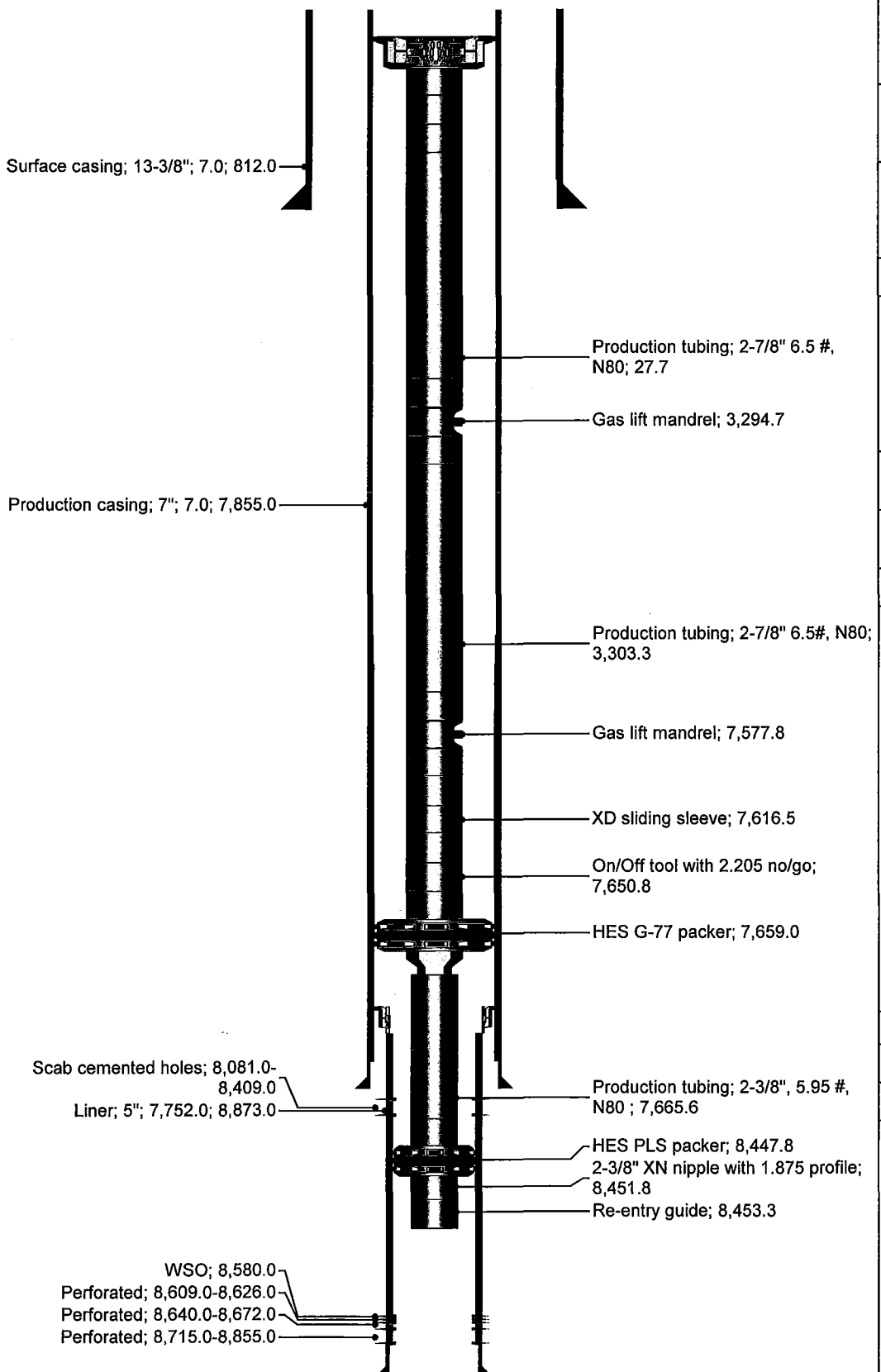
Standard Sesnon 8

Wellbore Schematic

Operator	Field Name	API	Well Type	Original KB Elevation (ft)	KB-Ground Distance (ft)
Southern California Gas Company	Aliso Canyon	03700761	Gas Storage	2,714.00	7.00

Original Hole, 10/1/2010 9:57:56 AM

Vertical schematic (actual)



Start Date	Summary
5/14/1946	Well drilled and completed
1/30/1954	Well redrilled. Milled from 7855' to 7885'; Cemented original hole 8550' to 8667' leaving 115' tubing fish in hole. Whipstock at 7873'. Redrillied to 8873'
5/18/1973	Perforated 8609' to 8626', 8640' to 8672' for conversion to gas storage
9/9/1977	Cleaned out to 8868', pressure tested casing. Scab cemented bad pipe from 8081' to8409'. Re -run tubing with SSSV.
7/14/1978	Repaired safety system
12/19/1988	Pulled tubing. Milled and retrieved blast joints and annular flow system. Ran Vertilog casing inspection log from 7756' to surface. Cleaned out well to 8856'. Ran 2-3/8" and 2-7/8" tubing.
1/18/2006	Wireline perfed 8838' - 8817', 8817' - 8838'
4/2/2007	Isolated bad 5" liner by setting packer at 7659' and 8448'
9/15/2010	

Formations

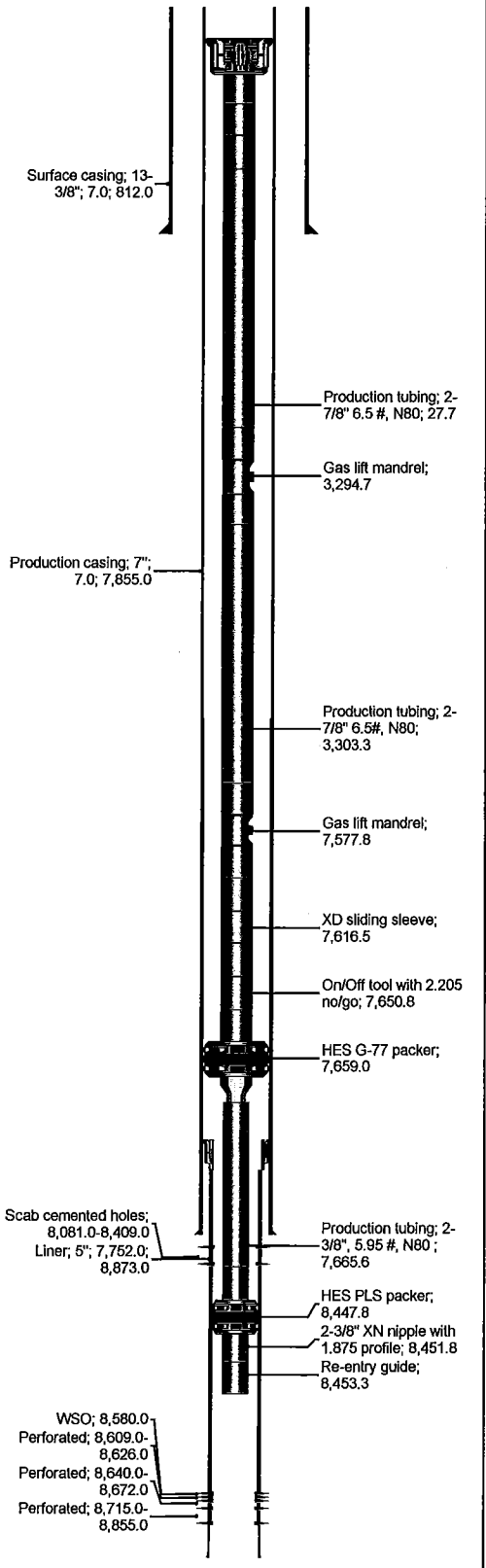
Formation Name	Final Top MD (ftKB)
S4	8,596.0
S8	8,712.0

Tubing Detail

Operator	Well Name	Field Name	API	KB-Grd (ft)
Southern California Gas Company	Standard Sesnon 8	Aliso Canyon	03700761	7.00

Original Hole, 10/1/2010 9:57:56 AM

Vertical schematic (actual)

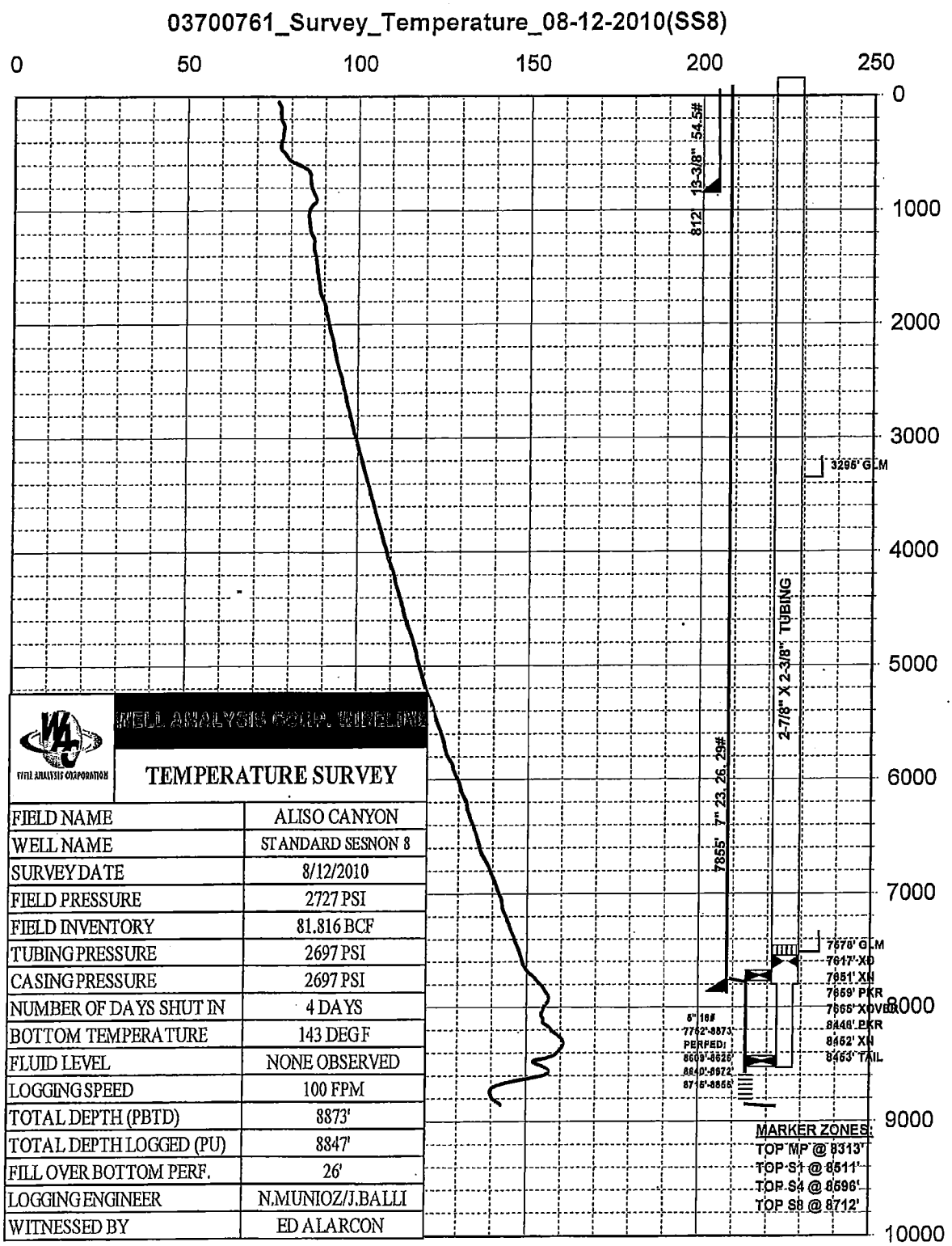


Tubing Production set at 8,454.0ftKB on 4/5/2007 00:00

Tubing Description	Set Depth (ftKB)	Run Date	Pull Date
Tubing Production	8,454.0	4/5/2007	

Item #	Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)
2-1		Tubing hanger	6	2.991			0.60	11.3	11.9
2-2		Tubing pup	2 7/8	2.441	6.50	L-80	1.63	11.9	13.6
2-3		Tubing pup	2 7/8	2.441	6.40	L-80	4.07	13.6	17.6
2-4		Tubing pup	2 7/8	2.441	6.40	L-80	10.06	17.6	27.7
2-5		Production tubing	2 7/8	2.441	6.40	L-80	3,262.99	27.7	3,290.7
2-6		Tubing pup	2 7/8	2.441	6.50	L-80	4.08	3,290.7	3,294.8
2-7		Gas lift mandrel	2 7/8	2.441			6.83	3,294.8	3,301.6
2-8		Tubing	2 7/8	2.441	6.40	L-80	1.71	3,301.6	3,303.3
2-9		Production tubing	2 7/8	2.441	6.50	L-80	4,270.51	3,303.3	7,573.8
2-10		Tubing pup	2 7/8	2.441	6.50	L-80	4.04	7,573.8	7,577.8
2-11		Gas lift mandrel	2 7/8	2.441			7.06	7,577.8	7,584.9
2-12		Tubing	2 7/8	2.441	6.50	L-80	1.61	7,584.9	7,586.5
2-13		Tubing	2 7/8	2.441	6.50	L-80	30.02	7,586.5	7,616.5
2-14		XD sliding sleeve	2 7/8	2.313			4.06	7,616.5	7,620.6
2-15		Tubing	2 7/8	2.441	6.50	L-80	30.22	7,620.6	7,650.8
2-16		On/Off tool with 2.205 no/go	2 7/8	2.205			2.17	7,650.8	7,653.0
2-17		Tubing	2 7/8	2.441	6.50	L-80	6.02	7,653.0	7,659.0
2-18		HES G-77 packer	5.9	2.441			5.50	7,659.0	7,664.5
2-19		2-7/8"X2.3/8" crossover	2 7/8	2.041			1.10	7,664.5	7,665.6
2-20		Production tubing	2 3/8	1.867	5.95	L-80	778.09	7,665.6	8,443.7
2-21		Tubing	2 3/8	1.867	4.70	L-80	4.15	8,443.7	8,447.8
2-22		HES PLS packer	4.1	1.867			4.00	8,447.8	8,451.8
2-23		2-3/8" XN nipple with 1.875 profile	2 3/8	1.791			1.41	8,451.8	8,453.3
2-24		Re-entry guide	2 3/8	1.940			0.75	8,453.3	8,454.0

Report Generated on: 10/1/2010



WELL ANALYSIS CORP. WIRELINE

WELL ANALYSIS CORPORATION

TEMPERATURE SURVEY

FIELD NAME	ALISO CANYON
WELL NAME	STANDARD SESNON 8
SURVEY DATE	8/12/2010
FIELD PRESSURE	2727 PSI
FIELD INVENTORY	81.816 BCF
TUBING PRESSURE	2697 PSI
CASING PRESSURE	2697 PSI
NUMBER OF DAYS SHUT IN	4 DAYS
BOTTOM TEMPERATURE	143 DEG F
FLUID LEVEL	NONE OBSERVED
LOGGING SPEED	100 FPM
TOTAL DEPTH (PBTD)	8873'
TOTAL DEPTH LOGGED (PU)	8847'
FILL OVER BOTTOM PERF.	26'
LOGGING ENGINEER	N.MUNIOZ/J.BALLI
WITNESSED BY	ED ALARCON

Copy for Dan, Orig. in SS-8 well file

NATURAL RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION
DIVISION OF OIL, GAS AND GEOTHERMAL RESOURCES

No. P **210-238**

010 (Old) Field Code 010 (New)
00 (Old) Area Code 00 (New)
30 (Old) Pool Code 30 (New)

PERMIT TO CONDUCT WELL OPERATIONS

James D. Mansdorfer, Agent
Southern California Gas Co..
9400 Oakdale Ave.
Chatsworth CA 91313

Ventura, California
November 5, 2010

Your proposal to **rework** well **"Standard Sesnon" 8**, A.P.I. No. **037-00761**, Section **28**, T. **3N**, R. **16W**, **S.B.** B. & M., **Aliso Canyon** Field, **Sesnon-Frew** Pools, **Los Angeles** County, dated **09/29/10**, received **10/01/10** has been examined in conjunction with records filed in this office.

THE PROPOSAL IS APPROVED PROVIDED THAT:

1. Blowout prevention equipment, as defined by this Division's publication No. MO7, shall be installed and maintained in operating condition and meet the following minimum requirements: Class II 5M and a 2M lubricator for perforating operations.
2. Hole fluid of a quality and in sufficient quantity is used to control all subsurface conditions in order to prevent blowouts.
3. A diligent effort shall be made to clean out to 8846'.
4. No program changes are made without Division approval.
5. **THIS DIVISION SHALL BE NOTIFIED TO:**
   a. Inspect the installed blowout prevention equipment prior to commencing downhole operations.
   b. Witness the location and hardness of the cement plug at 8480'.. .

Engineer: Steve Fields

Phone: (805) 654-4761

Elena M. Miller
State Oil and Gas Supervisor

By _____
Bruce Hesson, Deputy Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations. Records for work done under this permit are due within 60 days after the work is completed or the operations have been suspended. Issuance of this permit does not preclude the recipient from the obligation of being in compliance with all applicable Federal, State and Local laws, regulations and ordinances.

OG 111

Copy to Dan

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

No. T 210-223

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Report on Operations

James D. Mansdorfer, Agent
SOUTHERN CALIFORNIA GAS COMPANY
9400 Oakdale Ave.
Chatsworth, CA 91313

Ventura, California
November 9, 2010

Your operations at well "Standard Sesnon" 8 **, API No.** 037-00761
Sec. 28 **, T.** 3N **, R.** 16W **,** SB **B. & M.** Aliso Canyon
Field in Los Angeles **County,**
were witnessed on 11/3/2010 **by** Aaron Stewart **, representative of the supervisor.**

Operations Witnessed	Result – Def.	Engineer	Date
BOPE Test	Approved	Aaron Stewart	11/3/2010

The operations were performed for the purpose of testing the blowout prevention equipment and installation.

DECISION: Approved

tkc

By **Elena M. Miller**
State Oil and Gas Supervisor

Deputy Supervisor

OG109 Rev9/01 **(9/89/GSR1/5M)**

Cpy to Dan N. Orig in T S-8 well file

RESOURCES AGENCY OF CALIFORNIA
DEPARTMENT OF CONSERVATION

No. T 210-231

DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

Report on Operations

James D. Mansdorfer, Agent
SOUTHERN CALIFORNIA GAS COMPANY
9400 Oakdale Ave.
Chatsworth, CA 91313

Ventura, California
November 15, 2010

Your operations at well "Standard Sesnon" 8 **, API No.** 037-00761
Sec. 28 **, T.** 3N **, R.** 23W **,** SB **B. & M.**
Field in Aliso Canyon
Los Angeles **County,**
were witnessed on F. Pineda **by** 11/10/2010 **, representative of the supervisor.**

Operations Witnessed	Result – Def.	Engineer	Date
Tag Plug	Not Approved – 1	Aaron Stewart	11/8/2010
Tag Plug	Approved – 0	F. Pineda	11/10/2010

The operations were performed for the purpose of plugging back the lower portion of the well.

DECISION: Approved

DEFICIENCIES TO BE CORRECTED:
Plug tagged low.
DEFICIENCIES CORRECTED:
Plug upgraded.

tkc

Elena M. Miller
State Oil and Gas Supervisor

By _____
Deputy Supervisor

OG109 Rev9/01 (9/89/GSR1/5M)

AC_CPUC_0036510

OG = Oil and Gas
GS = Gas Storage
DG = Dry Gas
OBS = Observation
PA = Plugged and Abandonec

Well Name		Date	Well Status Change	Reason	Date	Well Status Change	Reason	Date	Well Status Change	Reason
Fernando Fee	31	Nov-74	OG-GS	Drilled by operator in 1945 as OG; converted to GS	Jun-89	GS-PA	Well was completed low in the structure and had low deliverability.			
Fernando Fee	34	Sep-74	OG-GS	Drilled by operator in 1951 as OG; converted to GS.	Mar-75	GS-OBS	Well flow lateral eroded and caught fire during flow back following a workover. Well was removed from operation and converted to observation.	May-91	OBS-PA	Well was plugged and abandoned due to poor mechanical condition of the casing.
Fernando Fee	35	Oct-72	OG-GS	Drilled by operator in 1951 as OG; converted to GS.	Oct-79	GS-OBS	Well developed a shoe leak. Plugged back above the storage zone and converted to observation.	Jun-89	OBS-PA	A determination was made that the well was no longer required as observation.
Frew	9	May-74	OG-GS	Drilled by operator in 1963 as OG; converted to GS.	Jun-15	GS-PA	Well developed a casing leak. Well was plugged and abamdoned due to poor mechanical condition of the casing.			
Frew	3	May-73	OG-GS	Drilled by operator in 1945 as OG; converted to GS.	Sep-13	GS-PA	Well was plugged and abandoned due to poor mechanical condition of the casing.			
Mission Adrian	5	Feb-75	OG-GS	Drilled by operator in 1952 as OG; converted to GS.	Nov-87	GS-PA	High risk of landslide. Well produces a heavy emulsion which plugs flowlines.			
Mission Adrian	5A	Aug-05	GS-DG	Drilled by SoCalGas in 1981 as GS. Perforated to test shallow gas sands.	Jan-07	DG-GS	Shallow gas sand test completed. Installed straddle packer system across test zone and returned to gas storage	Mar-15	GS-PA	Straddle packer system leaked. A determination was made to PA due to the perforations in the casing.
Porter	50A	Mar-15	GS-PA	Drilled by SoCalGas in 1983 as GS. Well developed a casing leak.						
Porter Fee	1	Nov-74	OG-GS	Drilled by operator in 1945 as OG; converted to GS.	Jul-89	GS-PA	High risk of landslide and low deliverability			
Porter Fee	2	Oct-74	OG-GS	Drilled by operator in 1946 as OG; converted to GS.	Jun-89	GS-PA	High risk of landslide and low deliverability			
Porter Fee	3	Nov-74	OG-GS	Drilled by operator in 1952 as OG; converted to GS.	Oct-87	GS-PA	High risk of landslide and low deliverability			
Porter	4	Dec-72	OG-GS	Drilled by operator in 1942 as OG; converted to GS.	Nov-82	GS-OBS	Well developed a shoe leak. Plugged back above the storage zone and converted to observation.	Dec-87	OBS-PA	A determination was made that the well was no longer required as observation.

Porter	41	Jan-75	OG-GS	Drilled by operator in 1949 as OG; converted to GS.	Jan-85	GS-OBS	High risk of landslide and low deliverability	Dec-87	OBS-PA	A determination was made that the well was no longer required as observation.
Porter	42	Dec-72	OG-GS	Drilled by operator in 1942 as OG; converted to GS.	Oct-82	GS-OBS	Well developed a shoe leak. Plugged back above the storage zone and converted to observation.	Jun-89	OBS-PA	A determination was made that the well was no longer required as observation.
Porter	43	Jan-75	OG-GS	Drilled by operator in 1954 as OG; converted to GS.	Jul-87	GS-PA	High risk of landslide, poor mechanical condition of the casing and low deliverability			
Standard Sesnon	7	Apr-73	OG-GS	Drilled by operator in 1945 as OG; converted to GS.	May-14	GS-PA	Landslide risk and low deliverability			