

SoCalGas, June 14, 2019

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent with Senate Bill 1371, Leno.
 In Response to Data Request, R15-01-008 - 2019 June Report
 Appendix 3 - Rev. 03/29/19

Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

The emissions captured on this tab represent the emissions associated with the operational design and function of the compressor. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Transmission Compressor Vented Emissions:

ID	Geographic Location	Compressor Type	Prime Mover	Number of Cylinders	Number of Seals	Seal Type	Operating Mode: Pressurized Operating (hours)	Operating Mode: Pressurized Idle (hours)	Operating Mode: Depressurized Idle (hours)	Emission Factor: Pressurized Operating (scf/hr)	Emission Factor: Pressurized Idle (scf/hr)	Emission Factor: Depressurized Idle (scf/hr)	Annual Emissions (Mscf)	Explanatory Notes / Comments
Unit 8	92225	R	C	4	N/A	N/A	1244.42	7380.57	132.37	75.73	0	4.5	94.84	
Unit 9	92225	R	C	4	N/A	N/A	1674.64	2716.04	4367.24	20.7	1	1	41.75	
Unit 10	92225	R	C	4	N/A	N/A	2541.45	6189.09	27.43	39.2	0	0	99.62	
Unit 11	92225	R	C	4	N/A	N/A	3672.47	5079.17	3.90	390.68	0.03	1.67	1434.92	
Unit 12	92225	R	C	4	N/A	N/A	5088.30	3239.46	426.47	116.6	0	5.3	595.56	
Unit 13	92225	R	C	4	N/A	N/A	5812.25	2857.78	86.99	20.11	0	4.5	117.28	
Unit 14	92225	R	C	4	N/A	N/A	4597.52	4050.86	103.79	4.14	0	0	19.03	
Unit 15	92225	R	C	4	N/A	N/A	4204.45	2376.22	2176.30	0	0	0	0.00	
CAT 1	92225	R	C	6	N/A	N/A	6219.74	1523.12	1006.71	976.37	0	1.67	6074.45	
CAT 2	92225	R	C	6	N/A	N/A	6890.65	1769.63	88.83	763.56	0	1.67	5261.57	
1	92351	C	C	N/A	1	W	3989.00	N/A	4771.00	N/A	N/A	1.44	6.87	
Unit 1	92363	R	C	4	N/A	N/A	0.00	0.05	8753.44	64.03	0	0	0.00	
Unit 2	92363	R	C	4	N/A	N/A	0.00	0.04	8758.46	132.64	0	0	0.00	
Unit 3	92363	R	C	4	N/A	N/A	0.00	0.04	8758.33	390.68	0.03	1.67	14.63	
Unit 4	92363	R	C	4	N/A	N/A	0.00	0.00	8617.76	390.68	0.03	1.67	14.39	
Unit 5	92363	R	C	4	N/A	N/A	0.00	0.01	8758.62	390.68	0.03	1.67	14.63	
Unit 6	92363	R	C	4	N/A	N/A	0.00	0.10	8758.44	390.68	0.03	1.67	14.63	
Unit 7	92363	R	C	4	N/A	N/A	0.00	0.10	8735.42	390.68	0.03	1.67	14.59	
1	92363	R	C	6	N/A	N/A	2454.16	4521.76	1776.04	390.68	0.03	1.67	961.89	
2	92363	R	C	6	N/A	N/A	2018.82	4364.22	2372.05	390.68	0.03	1.67	792.81	
3	92363	R	C	5	N/A	N/A	1816.14	4729.44	2206.74	390.68	0.03	1.67	713.36	
4	92363	R	C	4	N/A	N/A	1667.35	5622.06	900.90	390.68	0.03	1.67	653.07	
5	92363	R	C	4	N/A	N/A	1821.39	5517.73	842.03	390.68	0.03	1.67	713.15	
1	92365	R	C	3	N/A	N/A	408.48	6176.10	2173.54	390.68	0.03	1.67	163.40	
2	92365	R	C	3	N/A	N/A	344.63	6235.53	2178.19	390.68	0.03	1.67	138.47	
3	92365	R	C	3	N/A	N/A	314.83	6270.17	2173.28	390.68	0.03	1.67	126.82	
4	92365	R	C	3	N/A	N/A	214.26	6371.08	2173.50	390.68	0.03	1.67	87.53	
5	92365	R	C	3	N/A	N/A	120.74	6465.35	2173.20	390.68	0.03	1.67	51.00	
6	92365	R	C	3	N/A	N/A	59.15	6527.11	2173.27	390.68	0.03	1.67	26.93	
7	92365	R	C	3	N/A	N/A	156.50	6238.26	2364.32	390.68	0.03	1.67	65.28	
HPC 1	93001	R	C	2	N/A	N/A	4868.02	1533.65	2355.96	711	0	0	3461.16	
HPC 2	93001	R	C	2	N/A	N/A	4764.12	1802.03	2174.64	6484	0	0	30890.54	
HPC 3	93001	R	C	2	N/A	N/A	5479.23	2051.42	1235.36	532.26	0	0	2916.38	
201	93313	C	C	N/A	2	D	2909.20	110.52	5721.77	N/A	N/A	0	0.00	
301	93313	C	C	N/A	2	D	2475.78	99.93	6182.94	N/A	N/A	0	0.00	
401	93313	C	C	N/A	2	D	932.82	88.51	7736.93	N/A	N/A	0	0.00	
501	93313	C	C	N/A	2	D	3906.07	120.07	4715.12	N/A	N/A	0	0.00	
Sum Total													55,581	

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Notes:

Use a formula-derived value with the formula used in the Annual Emissions column. Do not use a copy and paste-as-value.

At the end of Annual Emissions Column, add a summation total in a cell for a column total, and then highlight orange.

Transmission Compressor Station Blowdowns:

ID	Geographic Location	Number of Blowdown Events	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92301	1	77.00	Leak repair
N/A	92363	1	498.14	Blowdown due to Unplanned Incident
N/A	SoCalGas Territory	44	1.1	Orifice/Meters (they were not reported last year) (at th eproducer site and everything was reported in app2 in17)
N/A	SoCalGas Territory	212	4.24	Relief Valve Inspections - Estimated avg. gas vented = 20 scf/insp (annual test with Nitrogen, gas vented is volume of gas in valve)
N/A	SoCalGas Territory	6	60	Drip
N/A	SoCalGas Territory	42	1.26	Filter Change-outs or Filter Inspections w/parts replacement - Estimated avg. gas vented = 30 scf/ea
N/A	SoCalGas Territory	115	0.23	Pneumatic Device Annual Inspections - Estimated avg. gas vented = 2 scf/insp
N/A	92225	57	2699.36	Maintenance Blowdowns
N/A	92363	9	708.26	Maintenance Blowdowns
N/A	92365	3	35.59	LDAR Blwdown
N/A	SoCalGas Territory	3	1302.80	ESD tests & maintenance
N/A	92363	16	347.30	Maintenance Blowdowns
N/A	93313	119	4996.50	Maintenance Blowdowns
N/A	93001	6	26.80	Maintenance Blowdowns
		Sum Total	10,759	

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The emissions captured on this tab represent the emissions associated with the operational design and function of the component. Any intentional release of natural gas for safety or maintenance purposes should be included on the Blowdowns worksheet.

Transmission Compressor Station Component Vented Emissions:

ID/Number of Devices	Geographic Location	Device Type	Bleed Rate	Manufacturer	Engineering or Manufacturer's based Estimate of Emissions (Mscf/day/dev)	Annual Emissions (Mscf)	Explanatory Notes / Comments
21	92225	P	I	Misc.	0.0576	441.504	Valve Actuators
18	92301	P	I	Misc.	0.0576	378.432	Valve Actuators
2	92301	P	L	Misc.	0.0336	24.528	Valve Actuators
7	92351	P	I	Misc.	0.0576	147.168	Valve Actuators
19	92363	P	I	Misc.	0.0576	399.456	Valve Actuators
3	92363	P	L	Misc.	0.0336	36.792	Controllers
21	92363	P	I	Misc.	0.0576	441.504	Unloaders
6	92363	P	I	Misc.	0.0576	126.144	Valve Actuators
105	92365	P	I	Misc.	0.0576	2207.52	Unloaders
4	92365	P	I	Misc.	0.0576	84.096	Valve Actuators
1	92365	P	I	Misc.	N/A	13.75	Pneumatic Pump - Emissions based on actual measured flow.
Sum Total						4,301	

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The emissions captured on this tab represent the emissions associated unintentional leaks that if repaired would not leaking. If the component is releasing gas or "bleeding" as a result of its design or function then it is not to be captured in this tab.

Transmission Compressor Station: Compressor and Component Fugitive Leaks:

		12/31/18		01/01/18							
ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments	
N/A	91355	V	N/A	N/A	03/13/18	3/16/2018	3/1/2018	10	1.57	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	
N/A	91355	V	N/A	N/A	03/13/18	3/16/2018	3/1/2018	10	1.57	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	
N/A	91355	V	N/A	N/A	03/13/18	3/16/2018	3/1/2018	10	1.57	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	
N/A	92365	V	N/A	N/A	11/14/18	11/16/2018	9/1/2018	40	6.29	Valve component on Transmission pipeline. Emissions accounted for by mileage-based INGAA Emission Factor.	
N/A	92363	O	N/A	N/A	43137	2/6/2018	9/13/2017	74	20.424	Appendix 9 - Non-compressor components EF	
N/A	92225	O	N/A	N/A	43165	3/6/2018	9/28/2017	81	22.218	Appendix 9 - Non-compressor components EF	
N/A	92225	O	N/A	N/A	43165	3/6/2018	9/28/2017	81	22.218	Appendix 9 - Non-compressor components EF	
N/A	92225	O	N/A	N/A	43167	3/9/2018	9/28/2017	83	22.77	Appendix 9 - Non-compressor components EF	
N/A	92225	O	N/A	N/A	43167	3/9/2018	9/28/2017	83	22.77	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43157	2/27/2018	9/22/2017	81	22.218	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43157	2/26/2018	9/22/2017	80	21.942	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43157	2/27/2018	9/22/2017	81	22.218	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43157	2/27/2018	9/22/2017	81	22.218	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43157	2/26/2018	9/22/2017	80	21.942	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43157	2/26/2018	9/22/2017	80	21.942	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92301	O	N/A	N/A	43158	2/27/2018	9/22/2017	80	22.08	Appendix 9 - Non-compressor components EF	
N/A	92363	Other	N/A	N/A	43137	2/6/2018	9/13/2017	74	7.2816	Appendix 9 - Non-compressor components EF	
N/A	92363	Other	N/A	N/A	43138	2/10/2018	9/13/2017	78	7.626	Appendix 9 - Non-compressor components EF	
N/A	92363	Other	N/A	N/A	43138	2/7/2018	9/13/2017	75	7.3308	Appendix 9 - Non-compressor components EF	
N/A	92363	Other	N/A	N/A	43138	12/31/2018	9/13/2017	402	39.5076	Appendix 9 - Non-compressor components EF	
N/A	92351	Other	N/A	N/A	43139	2/9/2018	9/15/2017	75	7.38	Appendix 9 - Non-compressor components EF	
N/A	92365	Other	N/A	N/A	43144	2/13/2018	9/20/2017	74	7.2816	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43165	3/19/2018	9/28/2017	94	9.2004	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43165	3/9/2018	9/28/2017	84	8.2164	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43165	3/9/2018	9/28/2017	84	8.2164	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/20/2018	9/28/2017	94	9.2496	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/19/2018	9/28/2017	93	9.1512	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/19/2018	9/28/2017	93	9.1512	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/19/2018	9/28/2017	93	9.1512	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/19/2018	9/28/2017	93	9.1512	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/7/2018	9/28/2017	81	7.9704	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/7/2018	9/28/2017	81	7.9704	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43166	3/9/2018	9/28/2017	83	8.1672	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43167	3/9/2018	9/28/2017	83	8.118	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43167	3/9/2018	9/28/2017	83	8.118	Appendix 9 - Non-compressor components EF	
N/A	92225	Other	N/A	N/A	43168	3/9/2018	9/28/2017	82	8.0688	Appendix 9 - Non-compressor components EF	

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92365	V	N/A	N/A	43213	4/24/2018	2/15/2018	36	5.5806	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43213	4/23/2018	2/15/2018	35	5.4234	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43213	4/23/2018	2/15/2018	35	5.4234	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43213	4/23/2018	2/15/2018	35	5.4234	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43213	4/23/2018	2/15/2018	35	5.4234	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43214	4/24/2018	2/15/2018	35	5.502	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43214	4/24/2018	2/15/2018	35	5.502	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43214	4/24/2018	2/15/2018	35	5.502	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43214	4/24/2018	2/15/2018	35	5.502	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43214	4/24/2018	2/15/2018	35	5.502	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43304	7/23/2018	4/24/2018	46	7.2312	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43304	7/25/2018	4/24/2018	48	7.5456	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43304	7/23/2018	4/24/2018	46	7.2312	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43305	7/24/2018	4/24/2018	47	7.3098	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43306	7/25/2018	4/24/2018	47	7.3884	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43306	8/6/2018	4/24/2018	59	9.2748	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43306	8/6/2018	4/24/2018	59	9.2748	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43306	7/25/2018	4/24/2018	47	7.3884	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43355	12/31/2018	7/25/2018	136	21.3006	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43355	12/31/2018	7/25/2018	136	21.3006	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43326	8/15/2018	5/8/2018	51	8.0172	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43327	8/15/2018	5/8/2018	51	7.9386	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43327	8/16/2018	5/8/2018	52	8.0958	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43355	9/13/2018	5/8/2018	66	10.2966	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43361	9/18/2018	5/8/2018	68	10.611	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43361	9/18/2018	5/8/2018	68	10.611	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43361	12/31/2018	5/8/2018	172	26.9598	Appendix 9 - Non-compressor components EF
N/A	92301	V	N/A	N/A	43319	8/8/2018	4/25/2018	54	8.4888	Appendix 9 - Non-compressor components EF
N/A	92301	V	N/A	N/A	43320	12/31/2018	4/25/2018	199	31.2042	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43299	7/20/2018	5/3/2018	41	6.4452	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43314	8/3/2018	5/3/2018	48	7.467	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43314	8/3/2018	5/3/2018	48	7.467	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43325	8/16/2018	5/3/2018	55	8.646	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43325	8/16/2018	5/3/2018	55	8.646	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43325	8/16/2018	5/3/2018	55	8.646	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43403	10/31/2018	9/12/2018	26	4.0872	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43404	10/31/2018	9/12/2018	26	4.0086	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43404	10/31/2018	9/12/2018	26	4.0086	Appendix 9 - Non-compressor components EF
N/A	92365	V	N/A	N/A	43404	10/31/2018	9/12/2018	26	4.0086	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/16/2018	8/14/2018	33	5.109	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/16/2018	8/14/2018	33	5.109	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/16/2018	8/14/2018	33	5.109	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/16/2018	8/14/2018	33	5.109	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/16/2018	8/14/2018	33	5.109	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/18/2018	8/14/2018	35	5.4234	Appendix 9 - Non-compressor components EF
N/A	92363	V	N/A	N/A	43389	10/18/2018	8/14/2018	35	5.4234	Appendix 9 - Non-compressor components EF
N/A	93313	V	N/A	N/A	43445	12/31/2018	9/10/2018	67	10.5324	Appendix 9 - Non-compressor components EF
N/A	93313	V	N/A	N/A	43445	12/31/2018	9/10/2018	67	10.5324	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43397	12/31/2018	8/13/2018	105	16.506	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.9168	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.9168	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.9168	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43409	12/31/2018	8/13/2018	99	15.5628	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.9168	Appendix 9 - Non-compressor components EF
N/A	92225	V	N/A	N/A	43411	11/8/2018	8/13/2018	45	7.074	Appendix 9 - Non-compressor components EF

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92363	C	N/A	N/A	43326	8/15/2018	5/8/2018	51	7.1349	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43326	8/15/2018	5/8/2018	51	7.1349	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43326	8/15/2018	5/8/2018	51	7.1349	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43327	8/15/2018	5/8/2018	51	7.06495	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43327	8/16/2018	5/8/2018	52	7.20485	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43355	9/13/2018	5/8/2018	66	9.16345	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43355	9/13/2018	5/8/2018	66	9.16345	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43355	9/13/2018	5/8/2018	66	9.16345	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43361	9/18/2018	5/8/2018	68	9.44325	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43361	9/18/2018	5/8/2018	68	9.44325	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43361	12/31/2018	5/8/2018	172	23.99285	Appendix 9 - Non-compressor components EF
N/A	93001	C	N/A	N/A	43339	8/28/2018	4/17/2018	68	9.5132	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43319	8/7/2018	4/25/2018	53	7.4147	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43319	8/8/2018	4/25/2018	54	7.5546	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43320	12/31/2018	4/25/2018	199	27.77015	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43297	7/20/2018	5/3/2018	42	5.8758	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43298	7/20/2018	5/3/2018	42	5.80585	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43299	7/20/2018	5/3/2018	41	5.7359	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43299	7/20/2018	5/3/2018	41	5.7359	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43311	8/3/2018	5/3/2018	49	6.8551	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43312	8/1/2018	5/3/2018	47	6.50535	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43312	8/3/2018	5/3/2018	49	6.78515	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43312	8/3/2018	5/3/2018	49	6.78515	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43314	8/3/2018	5/3/2018	48	6.64525	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43314	8/3/2018	5/3/2018	48	6.64525	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43325	8/16/2018	5/3/2018	55	7.6945	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43325	8/16/2018	5/3/2018	55	7.6945	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43325	8/16/2018	5/3/2018	55	7.6945	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43325	8/16/2018	5/3/2018	55	7.6945	Appendix 9 - Non-compressor components EF
N/A	92351	C	N/A	N/A	43390	10/17/2018	7/12/2018	50	6.92505	Appendix 9 - Non-compressor components EF
N/A	92365	C	N/A	N/A	43403	10/31/2018	9/12/2018	26	3.6374	Appendix 9 - Non-compressor components EF
N/A	92365	C	N/A	N/A	43404	10/31/2018	9/12/2018	26	3.56745	Appendix 9 - Non-compressor components EF
N/A	92365	C	N/A	N/A	43404	10/31/2018	9/12/2018	26	3.56745	Appendix 9 - Non-compressor components EF
N/A	92365	C	N/A	N/A	43404	10/31/2018	9/12/2018	26	3.56745	Appendix 9 - Non-compressor components EF
N/A	92365	C	N/A	N/A	43404	10/31/2018	9/12/2018	26	3.56745	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43388	10/15/2018	8/14/2018	32	4.4768	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43388	10/15/2018	8/14/2018	32	4.4768	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/16/2018	8/14/2018	33	4.54675	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/16/2018	8/14/2018	33	4.54675	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/16/2018	8/14/2018	33	4.54675	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/16/2018	8/14/2018	33	4.54675	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/16/2018	8/14/2018	33	4.54675	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/16/2018	8/14/2018	33	4.54675	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/18/2018	8/14/2018	35	4.82655	Appendix 9 - Non-compressor components EF
N/A	92363	C	N/A	N/A	43389	10/18/2018	8/14/2018	35	4.82655	Appendix 9 - Non-compressor components EF
N/A	93313	C	N/A	N/A	43445	12/31/2018	9/10/2018	67	9.3733	Appendix 9 - Non-compressor components EF
N/A	93313	C	N/A	N/A	43445	12/31/2018	9/10/2018	67	9.3733	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43407	11/14/2018	8/8/2018	56	7.76445	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43407	11/14/2018	8/8/2018	56	7.76445	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43418	11/15/2018	8/8/2018	51	7.1349	Appendix 9 - Non-compressor components EF
N/A	92301	C	N/A	N/A	43418	11/15/2018	8/8/2018	51	7.1349	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43397	12/31/2018	8/13/2018	105	14.6895	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.1556	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.1556	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.1556	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.1556	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43409	11/6/2018	8/13/2018	44	6.1556	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43411	11/8/2018	8/13/2018	45	6.2955	Appendix 9 - Non-compressor components EF
N/A	92225	C	N/A	N/A	43412	12/31/2018	8/13/2018	98	13.64025	Appendix 9 - Non-compressor components EF
N/A	93313	Compressor	N/A	N/A	43208	4/18/2018	2/21/2018	29	3.8918	Appendix 9 - Non-compressor components EF
N/A	93313	Compressor	N/A	N/A	43208	4/19/2018	2/21/2018	30	4.026	Appendix 9 - Non-compressor components EF
N/A	93313	Compressor	N/A	N/A	43208	4/19/2018	2/21/2018	30	4.026	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43221	12/31/2018	3/28/2018	262	35.1604	Appendix 9 - Non-compressor components EF

ID	Geographic Location	Device Type	Bleed Rate	Manufacturer	Discovery Date (MM/DD/YY)	Repair Date (MM/DD/YY)	Prior Survey Date (MM/DD/YY)	Number of Days Leaking	Annual Emissions (Mscf)	Explanatory Notes / Comments
N/A	92225	Compressor	N/A	N/A	43222	12/31/2018	3/28/2018	262	35.0933	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	5/22/2018	3/28/2018	31	4.1602	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	5/22/2018	3/28/2018	31	4.1602	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
N/A	92225	Compressor	N/A	N/A	43237	12/31/2018	3/28/2018	254	34.0868	Appendix 9 - Non-compressor components EF
Sum Total									13,053	

SoCalGas, June 14, 2019

Rulemaking (R.) 15-01-008 to Adopt Rules and Procedures Governing Commission
 Regulated Natural Gas Pipelines and Facilities to Reduce Natural Gas Leaks Consistent
 In Response to Data Request, R15-01-008 - 2019 June Report
 Appendix 3 - Rev. 03/29/19

Notes:

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Transmission Compressor Station Storage Tank Emissions:

Total Number	Discovery Date (DD/MM/YY)	Repair Date (DD/MM/YY)	Number of Days Emitting	Emission Factor (Mscf/yr)	Annual Emissions (Mscf)	Explanatory Notes / Comments	Geographic Location
4	N/A	N/A	365	N/A	132.22	Condensate Tank*	92225
1	N/A	N/A	365	N/A	32.85	Aboveground Waste Condensate Vessel*	92365
2	N/A	N/A	365	N/A	110.2	Scrubber*	93313
					Sum Total	275	

Appendix 3 - Rev. 03/29/19

Header column "Comment" boxes displayed below for reference.

Header column "Comment" boxes displayed below for reference.	
Column Heading	Description and Definition of Required Contents (IF not self-explanatory)
Compressor Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Compressor Type	C = centrifugal R = reciprocating
Prime Mover	
Number of Cylinders	
Number of Seals	
Seal Type	W = wet D = dry NA = not applicable
Operating Mode: Pressurized Operating (hours)	
Operating Mode: Pressurized Idle (hours)	
Operating Mode: Depressurized Idle (hours)	
Emission Factor: Pressurized Operating (scf/hr)	
Emission Factor: Pressurized Idle (scf/hr)	
Emission Factor: Depressurized Idle (scf/hr)	
Annual Emissions (Mscf)	

Explanatory Notes / Comments	
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Blowdowns	
ID	
Geographic Location	GIS, zip code, or equivalent
Number of Blowdown Events	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Component Vented Emissions	
ID	
Geographic Location	GIS, zip code, or equivalent
Device Type	C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve
Bleed Rate	L = low bleed I = intermittent bleed H = high bleed NA = not applicable
Manufacturer	
Engineering or Manufacturer's based Estimate of Emissions	
Annual Emissions (Mscf)	
Explanatory Notes / Comments	

Compressor & Component Leaks	
ID	
Geographic Location	GIS, zip code, or equivalent

Device Type	<p>C = connector O = open-ended line M = meter P = pneumatic device PR = pressure relief valve V = valve</p>
Bleed Rate	<p>L = low bleed I = intermittent bleed H = high bleed NA = not applicable</p>
Manufacturer	
Discovery Date (MM/DD/YY)	<p>List the actual discovery date.</p> <p>If the leak was discovered in the year of interest or carried over from prior year, then we will assume the component was leaking from the beginning of the year for emissions reporting purposes, or prior survey date if surveyed previously within the year of interest.</p>
Repair Date (MM/DD/YY)	<p>Date that the component repair stopped the leak. Any associated blowdowns as a result of the repair should be included in the blowdowns tab.</p>
Prior Survey Date (MM/DD/YY)	<p>Before the discovery date of the leak, there was a "Prior Survey Date" when the compressor station was tested and no leak was found.</p> <p>There should be records as to when the compressor station was last surveyed. If the survey spanned two or more days, enter the final date.</p> <p>Note, a facility level survey date is sufficient to establish the prior survey date.</p>

<p>Number of Days Leaking</p>	<p>The algorithm that is used for determining the number of days leaking should conform to the following guidance: For the number days leaking prior to the date of discovery (survey date in the year of interest), calculate the number of days between the Discovery Date and the Prior Survey Date then divided by 2. [Dividing by 2 approximates the average time leaking between the leak discovery and the prior survey date. See below guidance when a leak is discovered in a prior period and repaired in the year of interest.]</p> <p>$(\text{Discovery Date} - \text{Prior Survey Date})/2$</p> <p>Calculate the number of days leaking after discovery (survey) date, by subtracting the discovery date from the repair date, unless the leak has not been repaired, where the number of days should be calculated by subtracting the discovery date from December 31 of the year of interest.*</p> <p>$(\text{Repair Date} - \text{Discovery Date})$, unless repair date greater than 12/31/XX then use 12/31/XX</p> <p>---</p> <p>Days Leaking = $(\text{Repair Date} - \text{Discovery Date}) + (\text{Discovery Date} - \text{Prior Survey Date})/2 + 1$</p> <p>* [This requires tracking the leak across different years, because the leak could be minor and conceivably span more than year before getting repaired. Therefore, in the cases where a leak is carried over to a subsequent year, an annual calculation should be made to reflect that the number of days leaking in the prior year have already been reported in the annual emissions inventory. In subsequent years the carried over leaks should reflect a beginning date of January 1 of the year of interest.]</p>
<p>Emission Factor (Mscf/day)</p>	
<p>Annual Emissions (Mscf)</p>	
<p>Explanatory Notes / Comments</p>	

<p>Storage Tanks</p>	
<p>Total Number</p>	
<p>Discovery Date (DD/MM/YY)</p>	

Repair Date (DD/MM/YY)	
Number of Days Emitting	Emitting from discovery date thru the repair date (if repaired in year of interest) or December 31 of subject year, whichever is earlier. (Duration of Leak = discovery date - repair date (or December 31) + 1 day.)
Emission Factor (Mscf/yr)	
Annual Emissions (Mscf)	