

# MAOP Validation Report

Confidential  
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Report valid for the following date: 5/1/2019

## MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
	200640.00	200783.00	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	200783.00	200894.00	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	200894.00	201019.00	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201019.00	201154.00	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201154.00	201250.00	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201250.00	201395.00	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201395.00	201435.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201435.80	201532.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201532.80	201676.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201676.80	201956.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	201956.80	202436.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	202436.80	202640.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	202640.80	202736.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	202736.80	202988.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	202988.80	203239.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	203239.80	203339.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	203339.80	203430.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	203430.80	204325.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	204325.80	204463.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	204463.80	204588.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	204588.80	204713.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	204713.80	204860.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	204860.80	204963.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	204963.80	205538.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	205538.80	205727.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	205727.80	206012.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
	206012.80	206337.80	PIPE	1962	20.00		0.250		52000				Double Submerged Arc Wt		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
 A Design Pressure per 49 CFR, §192.611  
 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key  
 R = MAOP per MAOP Catalog  
 T = Test Pressure  
 D = Design Pressure

Other Nomenclature  
 N/A = Not Applicable

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Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
206337.80	206429.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
206429.80	206536.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
206536.80	206590.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
206590.80	206592.80		ELBW	1962	20.00		0.375	1	42000		N/A		N/A		1.00	1134	1054	1962	843	840	1	53.30	Y	MAOP-R	840
206592.80	206601.80		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1054	1962	843	840	1	57.50	Y	MAOP-R	840
206601.80	206774.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1054	1962	843	840	1	57.50	Y	MAOP-R	840
206774.20	206780.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1054	1962	843	840	1	57.50	Y	MAOP-R	840
206780.20	206782.40		ELBW	1962	20.00		0.375	1	42000		N/A		N/A		1.00	1134	1054	1962	843	840	1	53.30	Y	MAOP-R	840
206782.40	207674.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
207674.40	208264.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
208264.40	208389.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
208389.40	208600.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
208600.40	209029.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
209029.40	209081.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
209081.40	209186.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
209186.00	209249.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
209249.80	209793.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
209793.80	210042.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210042.00	210202.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210202.70	210482.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210482.70	210618.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210618.40	210836.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210836.60	210896.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210896.00	210941.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
210941.00	211074.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211074.00	211130.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211130.00	211262.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211262.00	211351.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211351.20	211679.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211679.20	211710.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211710.20	211808.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
211808.20	212050.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
212050.20	212093.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
212093.20	212188.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1054	1962	843	840	1	57.50	Y	MAOP-R	840
212188.20	212248.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1054	1962	843	840	1	57.50	Y	MAOP-R	840

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MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

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212248.20	212344.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1054	1962	843	840	1	57.50	Y	MAOP-R	840
212344.20	212469.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1054	1962	843	840	1	57.50	Y	MAOP-R	840
212469.20	212503.70		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1054	1962	843	840	1	57.50	Y	MAOP-R	840
212503.70	212531.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
212531.00	212660.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
212660.00	212857.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
212857.00	212992.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	840	1	64.60	Y	MAOP-R	840
212992.20	212995.20		PIPE	1993	20.00		0.375		52000				Double Submerged Arc We		1.00	975	1260	1993	840	840	1	43.10	Y	MAOP-R	840
212995.20	212996.90		RDCR	1993	20.00		0.375		52000		N/A		N/A		1.00	975	1260	1993	840	840	1	43.10	Y	MAOP-R	840
212996.90	212997.40		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
212997.40	212997.40		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
212997.40	212998.90		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
212998.90	212998.90		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
212998.90	213000.40		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213000.40	213000.40		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
213000.40	213002.90		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213002.90	213003.40		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213003.40	213003.40		TAP	1993	2.38		0.000		0				N/A		1.00	0	1260	1993	1008	840	1			MAOP-D	0
213003.40	213003.90		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213003.90	213003.90		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
213003.90	213004.40		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213004.40	213006.40		TEE	1993	16.00		0.375		52000			N/A	N/A		1.00	1218	1260	1993	840	840	1	34.50	Y	MAOP-R	840
213006.40	213007.60		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213007.60	213008.80		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213008.80	213011.20		VALV	1993	16.00		0.000		0		ANSI_600		N/A		1.00	1440	1260	1993	840	840	1	0.00	Y	MAOP-R	840
213011.20	213012.70		PIPE	1994	16.00		0.438		52000				Double Submerged Arc We		1.00	1423	0		0	840	1	29.50	Y	MAOP-R	840
213012.70	213014.70		TEE	1994	16.00		0.500		35000			N/A	N/A		1.00	1093	0		0	840	1	38.40	Y	MAOP-R	840
213014.70	213015.20		PIPE	1993	16.00		0.438		42000				Electric Resistance Weld		1.00	1149	1260	1993	840	840	1	36.50	Y	MAOP-R	840
213015.20	213015.20		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
213015.20	213016.20		PIPE	1993	16.00		0.438		42000				Electric Resistance Weld		1.00	1149	1260	1993	840	840	1	36.50	Y	MAOP-R	840
213016.20	213019.50		VALV	1993	16.00		0.000		0		ANSI_600		N/A		1.00	1440	1260	1993	840	840	1	0.00	Y	MAOP-R	840
213019.50	213020.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213020.50	213027.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213027.50	213027.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
213027.50	213032.00		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840

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213032.00	213034.00		TEE	1993	16.00		0.375		52000		N/A		N/A		1.00	1218	1260	1993	840	840	1	34.50	Y	MAOP-R	840
213034.00	213035.00		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213035.00	213036.00		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213036.00	213039.30		VALV	1993	16.00		0.000		0		ANSI_600		N/A		1.00	1440	1260	1993	840	840	1	0.00	Y	MAOP-R	840
213039.30	213040.30		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213040.30	213040.30		TAP	1994	1.32		0.000		0				N/A		1.00	1440	1260	1993	0	840	1		Y	MAOP-R	840
213040.30	213041.30		PIPE	1994	16.00		0.438		52000				Double Submerged Arc We		1.00	1423	0		0	840	1	29.50	Y	MAOP-R	840
213041.30	213043.30		TEE	1994	16.00		0.500		35000		N/A		N/A		1.00	1093	0		0	840	1	38.40	Y	MAOP-R	840
213043.30	213043.90		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213043.90	213043.90		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	840	1		Y	MAOP-R	840
213043.90	213044.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213044.50	213044.50		TAP	1993	2.38		0.000		0				N/A		1.00	0	1260	1993	1008	840	1			MAOP-D	0
213044.50	213045.70		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	840	1	42.70	Y	MAOP-R	840
213045.70	213048.10		VALV	1993	16.00		0.000		0		ANSI_600		N/A		1.00	1440	1260	1993	840	840	1	0.00	Y	MAOP-R	840
213048.10	213049.30		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213049.30	213050.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213050.50	213052.50		TEE	1993	16.00		0.375		52000		N/A		N/A		1.00	1218	1260	1993	840	650	1	26.70	Y	MAOP-R	650
213052.50	213054.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213054.50	213054.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	650	1		Y	MAOP-R	650
213054.50	213054.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	650	1		Y	MAOP-R	650
213054.50	213057.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213057.50	213057.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	650	1		Y	MAOP-R	650
213057.50	213057.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	650	1		Y	MAOP-R	650
213057.50	213058.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213058.50	213058.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	650	1		Y	MAOP-R	650
213058.50	213060.50		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213060.50	213060.50		TAP	1993	1.32		0.000		0				N/A		1.00	1440	1260	1993	1008	650	1		Y	MAOP-R	650
213060.50	213063.00		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213063.00	213065.20		PIPE	1993	16.00		0.375		42000				Electric Resistance Weld		1.00	984	1260	1993	840	650	1	33.00	Y	MAOP-R	650
213065.20	213066.90		RDCR	1993	20.00		0.375		52000		N/A		N/A		1.00	975	1260	1993	840	650	1	33.30	Y	MAOP-R	650
213066.90	213069.90		PIPE	1993	20.00		0.375		52000				Double Submerged Arc We		1.00	975	1260	1993	840	650	1	33.30	Y	MAOP-R	650
213069.90	213483.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
213483.40	213529.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
213529.20	213579.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
213579.20	213608.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

- N/A = Not Applicable

**MAOP Report Details: 306\_P2**

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
213608.20	213695.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
213695.20	213778.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
213778.20	213872.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
213872.20	214008.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214008.20	214056.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214056.20	214104.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214104.20	214152.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214152.20	214177.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214177.20	214205.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214205.20	214251.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214251.20	214292.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214292.20	214347.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214347.20	214474.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214474.60	214522.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214522.60	214566.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214566.60	214668.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214668.60	214755.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214755.60	214840.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
214840.30	215011.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215011.30	215071.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215071.30	215107.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215107.30	215253.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215253.30	215349.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215349.30	215438.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215438.30	215614.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215614.30	215792.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215792.30	215894.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215894.30	215935.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215935.30	215979.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
215979.20	216153.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216153.20	216235.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216235.20	216307.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216307.20	216357.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216357.20	216432.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216432.20	216627.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
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- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

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- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
216627.20	216711.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216711.20	216859.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216859.20	216958.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
216958.20	217094.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217094.20	217199.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217199.90	217247.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217247.90	217297.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217297.90	217348.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217348.90	217463.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217463.90	217853.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217853.90	217970.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
217970.90	218050.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218050.90	218113.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218113.30	218302.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218302.30	218353.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218353.10	218453.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218453.60	218528.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218528.60	218604.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218604.10	218679.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218679.10	218681.33		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1054	1962	843	650	1	50.00	Y	MAOP-R	650
218681.33	218754.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
218754.10	218779.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
218779.70	218779.70		TAP	1962	1.05		0.000		0				N/A		1.00	0	1054	1962	702	650	3			MAOP-D	0
218779.70	218933.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
218933.00	219033.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
219033.00	219330.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
219330.00	219648.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
219648.00	219699.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
219699.00	219724.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1054	1962	702	650	3	50.00	Y	MAOP-R	650
219724.10	219814.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
219814.00	219947.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
219947.00	220060.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220060.50	220179.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220179.50	220242.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220242.50	220362.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650

Footnote Key  
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Other Nomenclature  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
220362.50	220397.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220397.50	220552.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220552.50	220631.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220631.50	220825.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220825.50	220873.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220873.50	220908.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220908.50	220984.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
220984.50	221061.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221061.50	221161.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221161.50	221208.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221208.50	221258.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221258.50	221399.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221399.10	221410.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221410.50	221458.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221458.50	221507.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221507.50	221605.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221605.50	221653.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221653.50	221806.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221806.70	221856.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221856.70	221904.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221904.70	221953.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
221953.70	222152.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222152.70	222282.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222282.70	222376.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222376.70	222452.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222452.70	222506.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222506.70	222551.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222551.70	222736.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222736.20	222904.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
222904.70	223024.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223024.70	223079.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223079.70	223259.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223259.70	223301.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223301.70	223468.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223468.70	223528.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
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- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

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- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
223528.70	223614.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223614.70	223665.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223665.70	223817.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223817.10	223883.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223883.10	223934.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
223934.10	224082.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224082.10	224152.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224152.10	224248.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224248.10	224343.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224343.10	224521.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224521.10	224536.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224536.10	224606.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224606.10	224621.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224621.10	224773.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224773.10	224890.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224890.10	224958.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
224958.10	225098.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225098.10	225209.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225209.10	225284.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225284.10	225349.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225349.10	225421.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225421.10	225471.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225471.10	225522.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225522.10	225898.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
225898.10	226293.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226293.10	226358.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226358.10	226467.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226467.40	226512.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226512.40	226632.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226632.40	226751.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226751.40	226795.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226795.40	226958.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
226958.40	227112.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227112.40	227172.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227172.80	227274.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650

Footnote Key  
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 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key  
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Other Nomenclature  
 N/A = Not Applicable



MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
227274.80	227389.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227389.50	227476.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227476.50	227555.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227555.70	227855.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227855.70	227880.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227880.70	227910.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
227910.70	228095.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228095.70	228230.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228230.70	228260.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228260.70	228375.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228375.70	228519.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228519.00	228519.00		TAP	2014	2.38		0.000		0				N/A		1.00	1440	1189	1984	0	650	3		Y	MAOP-R	650
228519.00	228643.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228643.80	228658.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1189	1984	792	650	3	50.00	N	MAOP-R	650
228658.60	228689.80		PIPE	2014	20.00		0.375		65000				Electric Resistance Weld		1.00	1218	1358	2014	905	650	3	26.70	Y	MAOP-R	650
228689.80	228691.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	864	650	3	44.50	Y	MAOP-R	650
228691.20	228721.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	864	650	3	44.50	Y	MAOP-R	650
228721.20	228738.70		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	864	650	3	44.50	Y	MAOP-R	650
228738.70	228768.70		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	864	650	3	44.50	Y	MAOP-R	650
228768.70	228783.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
228783.90	228783.90		TAP	2014	2.38		0.000		0				N/A		1.00	1440	1296	1962	0	650	3		Y	MAOP-R	650
228783.90	228851.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
228851.70	228911.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
228911.70	229027.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
229027.70	229157.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
229157.70	229222.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
229222.70	229898.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
229898.70	229933.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
229933.70	230073.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230073.70	230148.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230148.80	230210.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230210.80	230278.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230278.20	230332.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230332.20	230441.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230441.80	230493.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
230493.80	230525.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230525.80	230585.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230585.80	230664.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230664.80	230712.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230712.80	230722.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230722.80	230778.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230778.80	230828.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230828.80	230904.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
230904.80	231009.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231009.30	231033.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231033.30	231206.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231206.30	231270.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231270.30	231272.00		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1296	1962	864	650	3	43.30	Y	MAOP-R	650
231272.00	231491.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231491.30	231523.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231523.30	231543.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231543.20	231669.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231669.40	231817.37		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231817.37	231819.78		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	864	650	3	50.00	Y	MAOP-R	650
231819.78	231846.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
231846.40	232014.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232014.40	232191.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232191.40	232286.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232286.00	232361.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232361.00	232459.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232459.00	232574.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232574.00	232725.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232725.00	232850.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232850.00	232962.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
232962.00	233149.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233149.20	233235.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233235.20	233358.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233358.20	233402.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233402.90	233535.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233535.40	233675.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
233675.40	233725.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233725.60	233780.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233780.30	233822.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233822.30	233923.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233923.30	233939.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
233939.00	233939.00		TAP	2001	1.32		0.000		0				N/A		1.00	1440	1296	1962	0	650	2		Y	MAOP-R	650
233939.00	234003.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234003.30	234062.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234062.30	234131.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234131.30	234228.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234228.50	234335.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234335.50	234397.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234397.50	234477.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234477.50	234557.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234557.50	234613.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234613.90	234633.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234633.90	234727.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234727.90	234807.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234807.00	234857.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234857.00	234919.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
234919.30	235117.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235117.60	235159.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235159.60	235270.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235270.30	235360.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235360.30	235425.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235425.30	235435.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235435.30	235501.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235501.30	235632.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235632.30	235822.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235822.30	235872.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235872.30	235994.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
235994.30	236096.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236096.30	236207.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236207.30	236420.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236420.30	236504.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
236504.30	236585.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236585.30	236647.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236647.70	236779.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236779.70	236909.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
236909.70	237342.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
237342.70	237547.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
237547.70	237720.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
237720.40	237872.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
237872.40	237923.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
237923.40	238066.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238066.10	238091.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238091.10	238141.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238141.10	238146.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238146.10	238194.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238194.10	238336.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238336.10	238390.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238390.60	238465.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238465.60	238731.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238731.90	238791.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
238791.90	239032.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239032.50	239135.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239135.00	239214.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239214.00	239244.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239244.00	239249.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239249.00	239350.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239350.20	239653.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239653.20	239790.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239790.20	239954.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
239954.70	240055.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240055.70	240106.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240106.70	240276.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240276.70	240355.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240355.70	240481.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240481.70	240632.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240632.70	240713.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650

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240713.90	240909.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240909.90	240981.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
240981.20	241281.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
241281.20	242067.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242067.20	242377.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242377.20	242439.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242439.40	242510.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242510.40	242611.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242611.40	242741.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242741.40	242745.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242745.40	242780.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242780.40	242784.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242784.40	242920.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
242920.40	243045.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
243045.40	243166.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
243166.40	243186.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
243186.40	243822.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
243822.40	243973.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
243973.40	244022.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244022.70	244175.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244175.70	244254.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244254.70	244309.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244309.70	244440.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244440.70	244476.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244476.70	244619.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244619.70	244720.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244720.40	244803.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
244803.40	245151.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
245151.40	245442.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
245442.40	245621.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
245621.70	245858.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
245858.70	245978.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
245978.70	246014.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246014.70	246121.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246121.30	246237.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650

Footnote Key

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- 2 Field Verification
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- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

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- T = Test Pressure
- D = Design Pressure

Other Nomenclature

- N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
246237.30	246272.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246272.30	246322.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246322.30	246582.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246582.30	246619.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246619.60	246620.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	675	1296	1962	1036	650	2	57.80	Y	MAOP-R	650
246620.70	246717.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
246717.30	246755.70		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
246755.70	246756.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	675	1296	1962	1036	650	2	57.80	Y	MAOP-R	650
246756.60	246776.60		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
246776.60	247095.60		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
247095.60	247150.60		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
247150.60	247187.30		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
247187.30	247217.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
247217.10	247217.10		TAP	1962	1.05		0.000		0				N/A		1.00	0	1296	1962	1036	650	2			MAOP-D	0
247217.10	247255.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
247255.60	247290.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
247290.60	247350.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
247350.60	247542.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
247542.30	247602.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
247602.30	248137.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248137.30	248440.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248440.30	248640.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248640.30	248715.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248715.30	248829.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248829.30	248862.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248862.90	248987.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
248987.90	249182.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249182.90	249247.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249247.00	249327.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249327.80	249411.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249411.10	249679.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249679.10	249821.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249821.10	249884.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249884.40	249923.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
249923.80	250012.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650

Footnote Key

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MAOP Limit Factor Key

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- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
250012.40	250082.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250082.90	250157.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250157.10	250253.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250253.10	250306.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250306.50	250369.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250369.50	250546.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250546.60	250600.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250600.60	250646.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250646.00	250705.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250705.20	250764.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250764.20	250818.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250818.20	250895.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250895.20	250970.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
250970.50	251174.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251174.60	251223.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251223.60	251338.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251338.20	251376.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251376.20	251544.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251544.20	251611.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251611.50	251985.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
251985.50	252109.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252109.50	252331.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252331.50	252472.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252472.50	252725.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252725.60	252790.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252790.60	252884.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252884.60	252977.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
252977.60	253244.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253244.50	253321.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253321.00	253383.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253383.00	253431.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253431.00	253546.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253546.20	253605.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253605.20	253704.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253704.20	253779.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650

Footnote Key

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Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
253779.20	253869.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253869.50	253929.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253929.30	253988.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
253988.30	254142.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
254142.30	254400.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
254400.80	256162.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
256162.90	256360.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
256360.90	256373.90		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
256373.90	256413.90		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
256413.90	256413.90		TAP	1998	1.32		0.000		0				N/A		1.00	0	1296	1962	0	650	1			MAOP-D	0
256413.90	256423.90		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
256423.90	256440.10		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
256440.10	256466.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
256466.60	256549.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
256549.60	256714.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
256714.10	256859.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
256859.50	257112.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257112.00	257168.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257168.70	257234.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257234.80	257293.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257293.80	257468.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257468.80	257546.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257546.90	257967.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
257967.70	258506.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
258506.70	258617.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
258617.80	259069.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259069.00	259171.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259171.20	259250.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259250.80	259327.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259327.80	259419.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259419.90	259499.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259499.00	259635.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259635.10	259811.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259811.10	259975.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
259975.10	260130.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650

Footnote Key

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MAOP Limit Factor Key

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Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912



MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
260130.10	260174.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
260174.10	260275.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
260275.40	260298.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
260298.40	260506.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
260506.40	260522.57		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
260522.57	260604.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
260604.40	260755.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
260755.40	261217.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
261217.40	261231.40		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
261231.40	261236.40		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
261236.40	261236.40		TAP	1978	1.32		0.000		0				N/A		1.00	1440	1296	1962	0	650	2		Y	MAOP-R	650
261236.40	261276.40		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
261276.40	261297.40		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
261297.40	261357.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
261357.40	261392.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
261392.40	261915.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
261915.50	262550.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
262550.30	262704.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
262704.30	262704.30		TAP	2003	1.05		0.000		0				N/A		1.00	0	1296	1962	0	650	2			MAOP-D	0
262704.30	262744.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
262744.30	262744.50		SLVE	2003	21.50		0.625		50000				N/A		1.00	1744	0		0	650	2	22.40	Y	MAOP-R	650
262744.50	262795.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
262795.20	262845.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
262845.20	262949.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
262949.20	263009.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263009.40	263268.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263268.90	263347.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263347.30	263407.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263407.90	263462.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263462.90	263508.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263508.40	263549.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263549.00	263717.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263717.20	263821.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263821.20	263880.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
263880.20	264021.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650

Footnote Key

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- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

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- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

- N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
264021.20	264071.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
264071.20	264221.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
264221.20	264296.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
264296.20	264421.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
264421.20	264522.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
264522.20	264623.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
264623.20	265040.44		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
265040.44	265041.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265041.20	265049.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265049.20	265089.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
265089.20	265109.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265109.20	265109.20		TAP	1962	1.05		0.000		0				N/A		1.00	0	1296	1962	1036	650	1			MAOP-D	0
265109.20	265111.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265111.20	265225.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265225.20	265382.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265382.40	265627.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265627.50	265727.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265727.50	265821.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
265821.70	266006.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266006.70	266064.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266064.70	266166.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266166.70	266502.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266502.90	266533.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266533.10	266662.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266662.60	266756.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266756.90	266864.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266864.90	266972.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
266972.90	267161.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
267161.50	267205.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
267205.90	267292.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
267292.70	267348.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
267348.70	267409.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
267409.10	267649.94		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
267649.94	267887.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
267887.10	268022.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650

Footnote Key  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
268022.30	268112.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
268112.30	268372.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
268372.30	268402.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1296	1962	1036	650	2	50.00	Y	MAOP-R	650
268402.30	268422.30		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
268422.30	268482.30		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
268482.30	268586.30		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
268586.30	268645.80		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
268645.80	268723.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
268723.20	268764.66		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1296	1962	1036	650	2	44.50	Y	MAOP-R	650
268764.66	268792.20		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
268792.20	269194.70		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1296	1962	1036	650	1	44.50	Y	MAOP-R	650
269194.70	269719.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
269719.40	269949.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
269949.50	270340.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
270340.50	271902.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1296	1962	1036	650	1	50.00	Y	MAOP-R	650
271902.60	271916.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	0		0	650	1	50.00	Y	MAOP-R	650
271916.60	271922.40		PIPE	1962	20.00		0.500		42000				Seamless		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271922.40	271924.90		TEE	1962	20.00		0.500		42000			N/A	N/A		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271924.90	271925.90		PIPE	1962	20.00		0.500		42000				Seamless		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271925.90	271925.90		TAP	1962	1.32		0.000		0				N/A		1.00	1440	0		0	650	1		Y	MAOP-R	650
271925.90	271926.70		PIPE	1962	20.00		0.500		42000				Seamless		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271926.70	271930.20		VALV	1962	20.00		0.000		0			ANSI_400	N/A		1.00	960	0		0	650	1	0.00	Y	MAOP-R	650
271930.20	271931.00		PIPE	1962	20.00		0.500		42000				Seamless		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271931.00	271931.00		TAP	1962	1.32		0.000		0				N/A		1.00	1440	0		0	650	1		Y	MAOP-R	650
271931.00	271932.00		PIPE	1962	20.00		0.500		42000				Seamless		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271932.00	271934.50		TEE	1962	20.00		0.500		42000			N/A	N/A		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271934.50	271940.30		PIPE	1962	20.00		0.500		42000				Seamless		1.00	1050	0		0	650	1	31.00	Y	MAOP-R	650
271940.30	271971.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
271971.30	272686.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
272686.30	272855.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
272855.30	273141.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
273141.30	273484.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
273484.30	273584.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
273584.30	273684.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
273684.30	273913.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key  
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MAOP Limit Factor Key  
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Other Nomenclature  
 N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
273913.30	274345.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
274345.30	276335.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276335.30	276370.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276370.30	276489.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276489.30	276552.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276552.30	276626.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276626.30	276674.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276674.30	276719.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276719.30	276769.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276769.30	276943.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276943.30	276987.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
276987.30	277053.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277053.30	277141.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277141.30	277299.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277299.30	277333.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277333.30	277407.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277407.30	277462.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277462.30	277514.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277514.30	277564.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277564.30	277764.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277764.30	277949.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277949.30	277999.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
277999.30	278100.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278100.30	278130.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278130.30	278131.50		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
278131.50	278353.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278353.50	278423.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278423.50	278623.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278623.50	278823.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278823.50	278993.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
278993.90	279113.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
279113.90	279222.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
279222.90	279363.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
279363.00	279733.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
279733.00	279851.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key  
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MAOP Limit Factor Key  
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Other Nomenclature  
 N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
279851.40	280021.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280021.40	280321.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280321.40	280380.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280380.70	280462.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280462.70	280537.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280537.70	280637.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280637.70	280686.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280686.70	280721.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280721.70	280750.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280750.50	280760.50		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1055	1962	844	650	1	44.50	Y	MAOP-R	650
280760.50	280820.50		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	876	1055	1962	844	650	1	44.50	Y	MAOP-R	650
280820.50	280830.50		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	1052	1055	1962	844	650	1	44.50	Y	MAOP-R	650
280830.50	280853.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280853.50	280939.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
280939.90	281004.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
281004.90	281479.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
281479.90	281624.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
281624.90	282129.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
282129.90	282249.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
282249.90	282574.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
282574.90	282989.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	1	50.00	Y	MAOP-R	650
282989.90	283116.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283116.90	283234.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283234.90	283361.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283361.90	283599.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283599.90	283754.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283754.90	283865.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283865.90	283945.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
283945.10	284140.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284140.10	284344.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284344.10	284489.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284489.10	284596.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284596.10	284615.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284615.40	284649.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284649.40	284680.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key

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- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

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- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
284680.90	284875.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284875.90	284966.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
284966.90	284968.20		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
284968.20	285067.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285067.20	285215.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285215.20	285268.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285268.20	285318.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285318.20	285363.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285363.80	285449.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285449.80	285632.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285632.80	285695.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285695.80	285766.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285766.10	285941.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
285941.20	286466.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
286466.20	286566.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
286566.20	286766.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
286766.20	286916.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
286916.20	286991.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
286991.20	286991.40		SLVE	1969	21.25		0.500		50000				N/A		1.00	1694	0		0	650	1	27.60	Y	MAOP-R	650
286991.40	287009.40		PIPE	1969	20.00		0.344		52000				Seamless		1.00	1287	1560	1969	1248	650	1	36.30	Y	MAOP-R	650
287009.40	287010.70		ELBW	1969	20.00		0.375		52000		N/A		N/A		1.00	1404	1560	1969	1248	650	1	33.30	Y	MAOP-R	650
287010.70	287090.10		PIPE	1969	20.00		0.375		42000				Double Submerged Arc We		1.00	1134	1560	1969	1248	650	1	41.30	Y	MAOP-R	650
287090.10	287159.40		PIPE	1969	20.00		0.344		52000				Seamless		1.00	1287	1560	1969	1248	650	1	36.30	Y	MAOP-R	650
287159.40	287159.65		ELBW	1969	20.00		0.375		52000		N/A		N/A		1.00	1404	1560	1969	1248	650	1	33.30	Y	MAOP-R	650
287159.65	287160.70		ELBW	1969	20.00		0.375		52000		N/A		N/A		1.00	975	1560	1969	1040	650	3	33.30	Y	MAOP-R	650
287160.70	287167.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287167.70	287199.90		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287199.90	287200.30		ELBW	1969	20.00		0.375		52000		N/A		N/A		1.00	975	1560	1969	1040	650	3	33.30	Y	MAOP-R	650
287200.30	287227.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287227.70	287287.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287287.70	287347.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287347.70	287407.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287407.70	287467.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287467.70	287527.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287527.70	287587.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
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 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

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Other Nomenclature  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
287587.70	287647.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287647.70	287707.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287707.70	287767.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287767.70	287827.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287827.70	287887.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287887.70	287947.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
287947.70	288007.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
288007.70	288067.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
288067.70	288127.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
288127.70	288147.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
288147.70	288149.00		ELBW	1969	20.00		0.375		52000		N/A		N/A		1.00	975	1560	1969	1040	650	3	33.30	Y	MAOP-R	650
288149.00	288297.70		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
288297.70	288299.00		ELBW	1969	20.00		0.375		52000		N/A		N/A		1.00	975	1560	1969	1040	650	3	33.30	Y	MAOP-R	650
288299.00	288307.40		PIPE	1969	20.00		0.344		52000				Seamless		1.00	894	1560	1969	1040	650	3	36.30	Y	MAOP-R	650
288307.40	288307.60		SLVE	1969	21.25		0.500		50000				N/A		1.00	1176	0		0	650	3	27.60	Y	MAOP-R	650
288307.60	288472.60		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288472.60	288528.40		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288528.40	288538.40		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288538.40	288589.60		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288589.60	288638.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288638.70	288765.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288765.70	288870.40		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288870.40	288880.20		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
288880.20	289078.00		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289078.00	289092.30		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289092.30	289133.50		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289133.50	289185.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289185.10	289235.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289235.10	289286.30		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289286.30	289351.30		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
289351.30	289798.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
289798.30	289856.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
289856.30	289856.30		TAP	1964	3.50		0.000		0				N/A		1.00	0	1055	1962	0	650	3			MAOP-D	0
289856.30	289896.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
289896.30	290033.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
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MAOP Limit Factor Key

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Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
290033.30	290113.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290113.30	290241.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290241.30	290617.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290617.80	290707.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290707.80	290812.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290812.10	290848.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290848.10	290957.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
290957.80	291008.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
291008.80	291081.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
291081.80	291297.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
291297.80	291533.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
291533.10	291743.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
291743.40	291907.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
291907.40	292033.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292033.40	292187.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292187.40	292207.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292207.50	292223.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292223.50	292293.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292293.60	292317.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292317.60	292337.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292337.60	292704.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292704.60	292771.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292771.80	292850.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292850.20	292892.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
292892.20	293054.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293054.90	293124.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293124.90	293186.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293186.10	293261.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293261.10	293371.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293371.50	293391.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293391.50	293612.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293612.30	293717.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293717.30	293796.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293796.70	293872.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
293872.00	293912.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
293912.00	294038.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
294038.50	294039.60		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
294039.60	294214.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
294214.60	294286.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
294286.10	294623.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
294623.10	294708.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
294708.10	294708.10		TAP	1962	1.05		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
294708.10	294998.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
294998.10	295001.40		PIPE	1973	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1260	1973	840	650	3	50.00	Y	MAOP-R	650
295001.40	295004.00		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1260	1973	840	650	3	33.30	Y	MAOP-R	650
295004.00	295005.60		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
295005.60	295008.10		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
295008.10	295015.60		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295015.60	295017.30		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295017.30	295077.30		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295077.30	295078.50		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295078.50	295084.50		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295084.50	295085.90		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295085.90	295088.40		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
295088.40	295091.40		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
295091.40	295136.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
295136.40	295496.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
295496.40	295527.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
295527.40	295595.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
295595.40	295691.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
295691.40	295798.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
295798.40	295848.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
295848.40	295962.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
295962.40	295962.40		TAP	1962	1.05		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
295962.40	295998.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
295998.40	296128.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
296128.40	296422.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
296422.40	296482.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
296482.40	296482.40		TAP	1977	1.32		0.000		0				N/A		1.00	0	1055	1962	0	650	3			MAOP-D	0
296482.40	296523.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
296523.40	296595.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
296595.20	296677.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
296677.20	296687.50		PIPE	1973	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1260	1973	840	650	3	50.00	Y	MAOP-R	650
296687.50	296690.00		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1260	1973	840	650	3	33.30	Y	MAOP-R	650
296690.00	296691.50		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
296691.50	296694.10		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
296694.10	296705.50		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
296705.50	296707.00		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
296707.00	296761.50		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
296761.50	296763.00		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
296763.00	296766.00		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
296766.00	296911.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
296911.00	296957.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
296957.00	297018.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297018.00	297241.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297241.00	297301.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297301.20	297333.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
297333.20	297333.40		SLVE	1973	21.00		0.375	1	60000	1			N/A		1.00	1071	0		0	650	3	30.30	Y	MAOP-R	650
297333.40	297336.40		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
297336.40	297339.70		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297339.70	297340.70		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297340.70	297352.70		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297352.70	297353.90		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297353.90	297457.40		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297457.40	297459.40		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297459.40	297473.70		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297473.70	297475.40		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297475.40	297476.70		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297476.70	297476.70		TAP	1973	2.38		0.000		0				N/A		1.00	1200	1335	1972	0	650	3		Y	MAOP-R	650
297476.70	297477.90		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297477.90	297478.10		SLVE	1973	21.75		0.750	1	50000	1			N/A		1.00	1724	0		0	650	3	18.90	Y	MAOP-R	650
297478.10	297481.90		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
297481.90	297482.10		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
297482.10	297484.60		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1260	1973	840	650	3	33.30	Y	MAOP-R	650
297484.60	297487.10		PIPE	1973	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1260	1973	840	650	3	50.00	Y	MAOP-R	650

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
 A Design Pressure per 49 CFR, §192.611  
 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key  
 R = MAOP per MAOP Catalog  
 T = Test Pressure  
 D = Design Pressure

Other Nomenclature  
 N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
297487.10	297559.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297559.10	297609.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297609.10	297754.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
297754.10	297810.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297810.10	297848.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	3	50.00	Y	MAOP-R	650
297848.50	297934.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
297934.90	297987.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
297987.90	297990.40		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
297990.40	297990.60		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297990.60	297995.90		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297995.90	297996.10		SLVE	1973	21.75		0.750	1	50000	1			N/A		1.00	1724	0		0	650	3	18.90	Y	MAOP-R	650
297996.10	297999.40		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297999.40	297999.70		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
297999.70	298044.20		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298044.20	298045.00		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298045.00	298141.00		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298141.00	298143.00		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298143.00	298158.00		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298158.00	298159.50		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298159.50	298161.20		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298161.20	298163.10		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298163.10	298166.10		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
298166.10	298166.30		SLVE	1973	21.00		0.375	1	60000	1			N/A		1.00	1071	0		0	650	3	30.30	Y	MAOP-R	650
298166.30	298268.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298268.30	298268.30		TAP	1976	1.32		0.000		0				N/A		1.00	0	1055	1962	0	650	3			MAOP-D	0
298268.30	298294.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298294.70	298349.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298349.40	298519.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298519.40	298569.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298569.40	298571.50		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
298571.50	298571.70		SLVE	1973	21.38		0.563	1	60000	1			N/A		1.00	1580	0		0	650	3	20.60	Y	MAOP-R	650
298571.70	298573.30		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
298573.30	298575.00		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298575.00	298579.20		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298579.20	298579.40		SLVE	1973	21.75		0.750	1	50000	1			N/A		1.00	1724	0		0	650	3	18.90	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
298579.40	298595.40		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298595.40	298597.10		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298597.10	298647.10		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298647.10	298647.10		TAP	1973	2.38		0.000		0				N/A		1.00	1200	1335	1972	0	650	3		Y	MAOP-R	650
298647.10	298649.60		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298649.60	298650.60		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298650.60	298666.70		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298666.70	298666.90		SLVE	1973	21.75		0.750	1	50000	1			N/A		1.00	1724	0		0	650	3	18.90	Y	MAOP-R	650
298666.90	298668.80		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298668.80	298670.00		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
298670.00	298671.70		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1335	1972	0	650	3	33.30	Y	MAOP-R	650
298671.70	298752.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298752.70	298812.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298812.70	298822.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298822.70	298822.70		TAP	1962	1.05		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
298822.70	298874.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298874.70	298930.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
298930.40	299115.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
299115.40	299238.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
299238.40	299273.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
299273.40	299277.40		PIPE	1973	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1260	1973	840	650	3	50.00	Y	MAOP-R	650
299277.40	299279.90		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1260	1973	840	650	3	33.30	Y	MAOP-R	650
299279.90	299280.60		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
299280.60	299291.60		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
299291.60	299292.50		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
299292.50	299296.50		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
299296.50	299428.80		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	3	31.00	Y	MAOP-R	650
299428.80	299435.30		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
299435.30	299435.70		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1260	1973	840	650	3	31.00	Y	MAOP-R	650
299435.70	299444.10		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	975	1260	1973	840	650	3	33.30	Y	MAOP-R	650
299444.10	299447.70		PIPE	1973	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1260	1973	840	650	3	50.00	Y	MAOP-R	650
299447.70	299882.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
299882.30	300029.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300029.30	300139.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300139.30	300140.30		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
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 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key  
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Other Nomenclature  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
300140.30	300150.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300150.30	300151.30		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
300151.30	300298.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300298.30	300330.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300330.20	300442.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300442.30	300539.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300539.30	300598.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300598.30	300628.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300628.30	300629.70		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
300629.70	300639.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300639.70	300641.60		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
300641.60	300764.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
300764.00	301036.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301036.00	301162.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301162.00	301213.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301213.00	301251.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301251.40	301441.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301441.00	301443.30		ELBW	1962	20.00		0.500	1	30000	1	N/A		N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
301443.30	301474.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301474.30	301567.53		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
301567.53	301638.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
301638.30	301711.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
301711.30	301711.50		SLVE	1973	21.00		0.375	1	60000	1			N/A		1.00	1285	0		0	650	2	30.30	Y	MAOP-R	650
301711.50	301715.50		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	1170	1335	1972	0	650	2	33.30	Y	MAOP-R	650
301715.50	301715.90		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1260	1335	1972	0	650	2	31.00	Y	MAOP-R	650
301715.90	301719.90		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1260	1335	1972	0	650	2	31.00	Y	MAOP-R	650
301719.90	301720.10		SLVE	1973	21.75		0.750	1	50000	1			N/A		1.00	1724	0		0	650	2	18.90	Y	MAOP-R	650
301720.10	301767.10		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1050	1335	1972	0	650	2	31.00	Y	MAOP-R	650
301767.10	301768.80		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1050	1335	1972	0	650	2	31.00	Y	MAOP-R	650
301768.80	301785.80		PIPE	1973	20.00		0.500		42000				Double Submerged Arc We		1.00	1260	1335	1972	0	650	2	31.00	Y	MAOP-R	650
301785.80	301787.10		ELBW	1973	20.00		0.500		42000		N/A		N/A		1.00	1260	1335	1972	0	650	2	31.00	Y	MAOP-R	650
301787.10	301788.50		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	1170	1335	1972	0	650	2	33.30	Y	MAOP-R	650
301788.50	301788.50		TAP	1973	2.38		0.000		0				N/A		1.00	1200	1335	1972	0	650	2		Y	MAOP-R	650
301788.50	301789.50		PIPE	1973	20.00		0.375		52000				Electric Resistance Weld		1.00	1170	1335	1972	0	650	2	33.30	Y	MAOP-R	650
301789.50	301973.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650

Footnote Key

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MAOP Limit Factor Key

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Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
301973.50	302187.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302187.50	302221.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302221.50	302333.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302333.50	302368.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302368.50	302493.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302493.50	302838.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302838.50	302896.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302896.50	302957.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
302957.50	303008.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303008.50	303044.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303044.50	303045.80		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	675	1055	1962	844	650	2	57.80	Y	MAOP-R	650
303045.80	303097.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303097.80	303208.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303208.80	303402.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303402.80	303452.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303452.80	303491.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303491.20	303594.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303594.20	303729.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303729.20	303757.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303757.20	303814.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303814.20	303876.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303876.20	303996.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
303996.20	304060.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304060.20	304072.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304072.20	304167.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304167.20	304236.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304236.20	304324.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304324.20	304395.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304395.20	304494.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304494.00	304503.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304503.60	304520.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304520.40	304532.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304532.40	304551.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304551.60	304568.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304568.40	304680.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
304680.40	304726.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304726.40	304902.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
304902.40	305037.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305037.40	305115.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305115.40	305205.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305205.40	305225.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305225.40	305265.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305265.40	305349.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305349.40	305413.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305413.40	305474.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305474.40	305556.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305556.40	305698.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305698.40	305739.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305739.40	305842.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305842.40	305842.60		SLVE	1982	21.00		0.500		50000				N/A		1.00	1428	0		0	650	2	27.30	Y	MAOP-R	650
305842.60	305850.60		PIPE	1982	20.00		0.438		52000				Double Submerged Arc We		1.00	1366	2090	1976	0	650	2	28.50	Y	MAOP-R	650
305850.60	305850.80		SLVE	1982	21.00		0.500		50000				N/A		1.00	1428	0		0	650	2	27.30	Y	MAOP-R	650
305850.80	305953.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
305953.80	306076.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306076.80	306190.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306190.80	306239.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306239.80	306545.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306545.00	306588.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306588.20	306658.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306658.20	306700.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306700.20	306762.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306762.60	306920.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306920.60	306990.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
306990.60	307128.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307128.60	307305.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307305.90	307496.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307496.90	307561.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307561.70	307566.70		PIPE	1962	20.00		0.250		60000				Double Submerged Arc We		1.00	900	1055	1962	844	650	2	43.30	Y	MAOP-R	650
307566.70	307568.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	675	1055	1962	844	650	2	57.80	Y	MAOP-R	650
307568.10	307596.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
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MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
307596.40	307620.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307620.40	307643.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307643.40	307675.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	2	50.00	Y	MAOP-R	650
307675.10	307728.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
307728.40	307788.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
307788.40	307872.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
307872.70	307874.20		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
307874.20	307973.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
307973.50	308063.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308063.50	308093.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308093.50	308303.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308303.50	308328.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308328.50	308358.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308358.50	308423.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308423.50	308442.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308442.00	308443.40		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
308443.40	308485.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308485.70	308575.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308575.70	308615.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308615.70	308720.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308720.70	308820.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308820.20	308821.20		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
308821.20	308956.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
308956.20	309031.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309031.20	309091.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309091.20	309141.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309141.20	309231.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309231.20	309355.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309355.60	309356.80		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
309356.80	309446.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309446.20	309566.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309566.20	309641.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309641.20	309711.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309711.20	309846.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309846.20	309871.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key

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- 2 Field Verification
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- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

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Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912



MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
309871.20	309956.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
309956.20	310021.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310021.20	310213.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310213.20	310340.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310340.70	310341.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
310341.70	310356.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310356.20	310501.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310501.20	310526.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310526.20	310566.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310566.20	310656.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310656.20	310746.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
310746.20	311006.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311006.20	311096.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311096.20	311156.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311156.20	311157.40		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
311157.40	311226.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311226.80	311396.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311396.80	311496.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311496.80	311581.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311581.80	311686.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311686.80	311711.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311711.80	311796.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311796.80	311929.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311929.80	311976.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
311976.80	312006.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312006.80	312034.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312034.80	312066.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312066.80	312101.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312101.80	312130.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312130.60	312308.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312308.60	312358.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312358.60	312478.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
312478.60	313033.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
313033.60	313151.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
313151.20	313333.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key  
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Other Nomenclature  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
313333.60	313417.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
313417.60	313537.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
313537.60	314371.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314371.60	314501.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314501.60	314571.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314571.60	314651.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314651.60	314751.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314751.60	314826.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314826.60	314926.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
314926.60	315315.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315315.60	315386.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315386.60	315626.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315626.60	315676.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315676.60	315746.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315746.20	315747.10		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
315747.10	315771.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315771.10	315772.20		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
315772.20	315836.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
315836.70	316036.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316036.70	316151.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316151.70	316201.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316201.70	316246.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316246.70	316359.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316359.50	316361.30		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
316361.30	316391.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316391.60	316476.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316476.60	316511.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316511.60	316551.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316551.60	316651.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316651.60	316691.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316691.60	316771.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316771.60	316876.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316876.60	316911.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316911.60	316931.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
316931.60	317036.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
317036.60	317076.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317076.60	317201.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317201.60	317221.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317221.10	317222.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
317222.10	317251.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317251.60	317301.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317301.60	317471.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317471.60	317501.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317501.60	317531.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317531.60	317571.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317571.60	317676.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317676.60	317886.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317886.60	317936.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317936.60	317937.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
317937.60	317947.60		PIPE	1962	20.00		0.250		60000				Double Submerged Arc We		1.00	1080	1055	1962	844	650	1	43.30	Y	MAOP-R	650
317947.60	317997.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
317997.60	318127.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318127.60	318375.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318375.20	318376.90		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
318376.90	318434.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318434.50	318474.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318474.50	318609.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318609.50	318884.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318884.50	318949.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
318949.50	319049.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319049.50	319474.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319474.50	319549.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319549.50	319609.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319609.50	319699.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319699.50	319824.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319824.00	319825.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
319825.10	319949.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319949.60	319991.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
319991.60	320019.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320019.60	320069.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
320069.60	320279.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320279.60	320334.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320334.60	320649.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320649.60	320764.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320764.60	320804.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320804.60	320859.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
320859.60	321069.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321069.60	321109.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321109.60	321149.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321149.60	321234.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321234.60	321284.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321284.60	321337.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321337.00	321339.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
321339.10	321449.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321449.70	321579.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321579.70	321689.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321689.70	321824.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321824.70	321859.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321859.70	321929.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321929.70	321959.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
321959.70	322124.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322124.70	322174.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322174.70	322234.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322234.70	322364.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322364.70	322398.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322398.70	322400.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
322400.70	322419.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322419.70	322449.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322449.70	322569.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322569.70	322644.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322644.70	322659.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322659.70	322689.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322689.70	322704.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322704.70	322804.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
322804.70	322849.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

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Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
322849.70	323069.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323069.70	323349.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323349.70	323389.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323389.70	323414.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323414.70	323446.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323446.50	323474.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323474.70	323549.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323549.70	323714.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323714.70	323814.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323814.70	323849.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323849.70	323884.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323884.70	323934.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
323934.70	324074.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324074.70	324134.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324134.70	324309.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324309.70	324361.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324361.20	324469.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324469.70	324679.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324679.70	324714.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324714.70	324715.40		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	675	1055	1962	844	650	1	57.80	Y	MAOP-R	650
324715.40	324723.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324723.40	324724.10		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	675	1055	1962	844	650	1	57.80	Y	MAOP-R	650
324724.10	324806.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324806.10	324856.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
324856.10	325096.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325096.10	325156.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325156.10	325371.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325371.10	325431.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325431.10	325511.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325511.10	325576.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325576.10	325696.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325696.10	325731.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325731.10	325876.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325876.10	325901.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
325901.10	325921.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

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Other Nomenclature  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
325921.10	326006.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326006.10	326146.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326146.10	326246.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326246.10	326281.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326281.10	326316.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326316.10	326381.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326381.10	326436.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326436.10	326521.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326521.10	326641.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326641.10	326721.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326721.10	326791.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326791.10	326921.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326921.10	326981.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
326981.10	327066.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327066.10	327121.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327121.10	327286.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327286.10	327365.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327365.30	327366.80		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327366.80	327379.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327379.80	327380.60		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327380.60	327391.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327391.30	327445.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327445.60	327449.00		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327449.00	327455.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327455.30	327458.70		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327458.70	327544.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327544.60	327644.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327644.60	327692.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327692.80	327694.60		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327694.60	327707.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327707.60	327709.40		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327709.40	327733.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327733.40	327734.40		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327734.40	327791.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327791.40	327793.50		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650

Footnote Key

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Other Nomenclature

N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
327793.50	327863.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327863.70	327865.20		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
327865.20	327919.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327919.40	327944.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327944.40	327994.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
327994.40	328034.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328034.40	328069.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328069.40	328099.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328099.40	328100.20		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328100.20	328175.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328175.70	328176.80		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328176.80	328201.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328201.30	328244.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328244.30	328245.00		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328245.00	328337.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328337.00	328352.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328352.00	328377.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328377.00	328377.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328377.70	328402.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328402.70	328452.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328452.70	328512.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328512.70	328513.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328513.70	328557.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328557.70	328558.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328558.70	328652.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328652.70	328653.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328653.60	328678.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328678.10	328703.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328703.10	328703.80		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
328703.80	328803.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328803.80	328863.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328863.80	328933.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
328933.80	329018.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
329018.80	329048.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
329048.80	329253.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

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 D = Design Pressure

Other Nomenclature  
 N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
329253.80	329254.00		SLVE	1967	21.25		0.375		52000				N/A		1.00	1321	0		0	650	1	35.40	Y	MAOP-R	650
329254.00	329255.00		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329255.00	329257.00		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329257.00	329259.00		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329259.00	329261.00		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329261.00	329261.80		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329261.80	329262.20		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329262.20	329291.50		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329291.50	329292.50		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329292.50	329294.40		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329294.40	329295.70		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329295.70	329344.80		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329344.80	329345.50		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329345.50	329562.50		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329562.50	329592.50		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	961	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329592.50	329673.50		PIPE	1967	20.00		0.267		60000				Electric Resistance Weld	1	1.00	1153	1559	1967	1247	650	1	40.60	Y	MAOP-R	650
329673.50	329681.20		PIPE	1967	20.00		0.375		52000				Electric Resistance Weld	1	1.00	1404	1559	1967	1247	650	1	33.30	Y	MAOP-R	650
329681.20	329681.80		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329681.80	329711.80		PIPE	1967	20.00		0.375		52000				Electric Resistance Weld	1	1.00	1404	1559	1967	1247	650	1	33.30	Y	MAOP-R	650
329711.80	329713.30		ELBW	1967	20.00		0.375		60000		N/A		N/A		1.00	1620	1559	1967	1247	650	1	28.90	Y	MAOP-R	650
329713.30	329714.60		PIPE	1967	20.00		0.375		52000				Electric Resistance Weld	1	1.00	1404	1559	1967	1247	650	1	33.30	Y	MAOP-R	650
329714.60	329714.80		SLVE	1967	21.25		0.375		52000				N/A		1.00	1321	0		0	650	1	35.40	Y	MAOP-R	650
329714.80	329751.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
329751.80	329906.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
329906.80	330031.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330031.80	330101.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330101.80	330171.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330171.80	330236.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330236.80	330276.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330276.80	330336.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330336.80	330401.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330401.80	330426.80		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330426.80	330427.90		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
330427.90	330447.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330447.90	330449.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
 A Design Pressure per 49 CFR, §192.611  
 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key  
 R = MAOP per MAOP Catalog  
 T = Test Pressure  
 D = Design Pressure

Other Nomenclature  
 N/A = Not Applicable



MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
330449.10	330469.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330469.10	330529.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330529.10	330564.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330564.10	330709.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330709.10	330804.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330804.10	330834.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330834.10	330884.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330884.10	330959.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
330959.10	331034.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331034.10	331164.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331164.10	331249.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331249.10	331304.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331304.10	331404.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331404.10	331494.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331494.10	331624.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331624.10	331671.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331671.10	331739.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331739.10	331929.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
331929.10	332004.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332004.10	332119.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332119.10	332259.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332259.10	332314.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332314.10	332354.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332354.10	332524.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332524.10	332525.30		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
332525.30	332540.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332540.10	332541.30		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
332541.30	332591.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332591.30	332626.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332626.30	332661.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332661.30	332741.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332741.30	332761.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332761.30	332836.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332836.30	332861.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332861.30	332906.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key  
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 A Design Pressure per 49 CFR, §192.611  
 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

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Other Nomenclature  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
332906.30	332996.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
332996.30	333116.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
333116.30	333366.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
333366.30	333451.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
333451.30	333561.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
333561.30	333871.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
333871.30	333906.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
333906.30	334076.30		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334076.30	334188.00		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334188.00	334189.30		ELBW	1962	20.00			0.375	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
334189.30	334288.60		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334288.60	334318.60		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334318.60	334582.60		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334582.60	334583.40		ELBW	1962	20.00			0.375	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
334583.40	334613.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334613.40	334614.40		ELBW	1962	20.00			0.375	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
334614.40	334709.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334709.40	334744.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334744.40	334745.40		ELBW	1962	20.00			0.375	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
334745.40	334815.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334815.40	334980.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
334980.40	335060.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335060.40	335115.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335115.40	335310.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335310.40	335365.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335365.40	335395.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335395.40	335510.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335510.40	335590.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335590.40	335695.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
335695.40	336110.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
336110.40	336470.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
336470.40	336540.80		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
336540.80	336550.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
336550.40	336560.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
336560.40	337010.40		PIPE	1962	20.00				52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
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Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
337010.40	337210.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337210.40	337345.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337345.40	337410.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337410.40	337510.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337510.40	337560.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337560.40	337621.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337621.40	337690.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337690.40	337855.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337855.40	337930.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337930.40	337990.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
337990.40	338110.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338110.40	338225.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338225.40	338510.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338510.40	338560.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338560.40	338795.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338795.40	338855.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338855.40	338920.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
338920.40	339055.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339055.40	339195.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339195.40	339310.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339310.40	339385.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339385.40	339510.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339510.40	339730.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339730.40	339810.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339810.40	339910.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
339910.40	340055.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340055.40	340111.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340111.30	340113.70		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
340113.70	340121.30		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340121.30	340123.70		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
340123.70	340148.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340148.70	340183.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340183.70	340278.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340278.70	340493.70		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340493.70	340495.10		ELBW	1962	20.00		0.375	1	30000	1		N/A	N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
 A Design Pressure per 49 CFR, §192.611  
 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key  
 R = MAOP per MAOP Catalog  
 T = Test Pressure  
 D = Design Pressure

Other Nomenclature  
 N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
340495.10	340508.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340508.20	340509.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
340509.60	340559.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340559.40	340774.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340774.40	340829.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340829.40	340899.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340899.40	340989.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
340989.40	341051.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341051.40	341052.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
341052.70	341056.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341056.40	341057.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
341057.70	341125.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341125.00	341170.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341170.00	341460.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341460.00	341555.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341555.00	341580.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341580.00	341690.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341690.00	341730.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341730.00	341800.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341800.00	341817.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341817.50	341847.50		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	780	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341847.50	341864.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341864.40	341865.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
341865.60	341945.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
341945.00	342012.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342012.00	342070.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342070.00	342115.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342115.00	342140.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342140.00	342190.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342190.00	342250.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342250.00	342315.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342315.00	342540.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342540.00	342715.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342715.00	342905.20		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342905.20	342906.70		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650

Footnote Key  
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MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
342906.70	342964.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
342964.90	343084.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343084.90	343392.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343392.90	343395.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
343395.10	343402.90		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343402.90	343405.00		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
343405.00	343492.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343492.00	343657.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343657.00	343757.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343757.00	343877.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
343877.00	344117.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344117.00	344217.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344217.00	344352.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344352.00	344442.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344442.00	344507.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344507.00	344583.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344583.10	344584.90		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
344584.90	344692.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344692.00	344812.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344812.00	344917.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344917.00	344967.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
344967.00	345017.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345017.00	345162.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345162.00	345272.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345272.00	345457.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345457.00	345532.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345532.00	345717.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345717.00	345852.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
345852.00	346031.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346031.00	346157.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346157.00	346232.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346232.00	346317.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346317.00	346482.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346482.00	346517.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346517.00	346617.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key

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- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
346617.00	346692.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346692.00	346772.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346772.00	346847.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346847.00	346917.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
346917.00	347086.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347086.00	347177.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347177.00	347392.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347392.00	347447.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347447.00	347582.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347582.00	347632.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347632.00	347687.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347687.00	347752.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347752.00	347787.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347787.00	347847.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347847.00	347897.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
347897.00	348017.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348017.00	348117.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348117.00	348214.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348214.00	348393.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348393.00	348617.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348617.00	348697.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348697.00	348817.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
348817.00	349037.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349037.00	349242.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349242.00	349367.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349367.00	349482.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349482.00	349617.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349617.00	349712.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349712.00	349817.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
349817.00	350117.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
350117.00	350453.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
350453.00	350517.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
350517.00	350672.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
350672.00	351152.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
351152.00	351664.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key  
 1 Historical Procurement Practices / Sound Engineering Analysis  
 2 Field Verification  
 A Design Pressure per 49 CFR, §192.611  
 B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

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Other Nomenclature  
 N/A = Not Applicable

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
351664.00	351967.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
351967.00	352267.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
352267.00	353167.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
353167.00	353317.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
353317.00	353552.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
353552.00	353739.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
353739.00	353912.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
353912.00	354192.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354192.00	354237.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354237.00	354272.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354272.00	354317.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354317.00	354507.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354507.00	354602.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354602.00	354867.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354867.00	354927.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
354927.00	355042.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355042.00	355117.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355117.00	355167.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355167.00	355567.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355567.00	355642.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355642.00	355717.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355717.00	355782.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355782.00	355977.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
355977.00	356042.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356042.00	356118.40		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356118.40	356119.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
356119.60	356232.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356232.00	356267.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356267.00	356347.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356347.00	356507.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356507.00	356552.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356552.00	356857.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356857.00	356960.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
356960.00	357217.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357217.00	357302.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650

Footnote Key

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Other Nomenclature

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MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
357302.00	357517.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357517.00	357587.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357587.00	357613.00		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357613.00	357615.10		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
357615.10	357702.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357702.10	357767.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357767.10	357867.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
357867.10	358067.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358067.10	358117.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358117.10	358206.60		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358206.60	358207.60		ELBW	1962	20.00		0.375	1	30000	1	N/A		N/A		1.00	810	1055	1962	844	650	1	57.80	Y	MAOP-R	650
358207.60	358337.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358337.10	358373.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358373.10	358417.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358417.10	358502.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358502.10	358662.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358662.10	358717.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358717.10	358854.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
358854.10	359097.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
359097.10	359217.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
359217.10	359267.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
359267.10	359369.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
359369.10	359396.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
359396.10	359879.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
359879.10	360184.82		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	936	1055	1962	844	650	1	50.00	Y	MAOP-R	650
360184.82	360189.46		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
360189.46	360207.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
360207.10	360296.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
360296.10	360365.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
360365.10	360375.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
360375.10	360389.60		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
360389.60	360471.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
360471.10	360761.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
360761.10	360938.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
360938.10	360988.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650

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Other Nomenclature  
 N/A = Not Applicable



MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
360988.10	361073.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
361073.10	361082.10		PIPE	1962	20.00		0.250		52000				Double Submerged Arc We		1.00	650	1055	1962	703	650	3	50.00	Y	MAOP-R	650
361082.10	361157.10		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1055	1962	703	650	3	44.50	Y	MAOP-R	650
361157.10	361169.10		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1055	1962	703	650	3	44.50	Y	MAOP-R	650
361169.10	361190.10		PIPE	1962	20.00		0.281		52000				Double Submerged Arc We		1.00	730	1055	1962	703	650	3	44.50	Y	MAOP-R	650
361190.10	361286.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361286.10	361352.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361352.10	361364.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361364.10	361596.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361596.10	361626.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361626.10	361636.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361636.10	361666.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361666.10	361716.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361716.10	361762.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361762.10	361830.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361830.70	361845.00		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361845.00	361848.00		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361848.00	361849.70		ELBW	1962	20.00		0.438	2	30000	1		N/A	N/A		1.00	657	1055	1962	703	650	3	49.50	Y	MAOP-R	650
361849.70	361857.00		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361857.00	361893.20		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
361893.20	362006.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362006.90	362071.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362071.90	362136.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362136.90	362169.20		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362169.20	362191.20		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362191.20	362201.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362201.90	362251.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362251.90	362259.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362259.90	362376.50		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362376.50	362377.30		ELBW	1962	20.00		0.500	1	30000	1		N/A	N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
362377.30	362421.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362421.90	362676.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362676.90	362716.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
362716.90	363632.34		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
363632.34	364071.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
364071.90	364281.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364281.90	364411.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364411.90	364836.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364836.90	364876.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364876.90	364912.90		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364912.90	364913.50		ELBW	1962	20.00		0.500	1	30000	1		N/A	N/A		1.00	1080	1055	1962	844	650	1	43.30	Y	MAOP-R	650
364913.50	364923.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364923.70	364924.70		ELBW	1962	20.00		0.500	1	30000	1		N/A	N/A		1.00	1080	1055	1962	844	650	1	43.30	Y	MAOP-R	650
364924.70	364959.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
364959.70	364960.80		ELBW	1962	20.00		0.500	1	30000	1		N/A	N/A		1.00	1080	1055	1962	844	650	1	43.30	Y	MAOP-R	650
364960.80	365421.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
365421.80	365466.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
365466.80	366016.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
366016.80	366058.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1287	1055	1962	844	650	1	36.30	Y	MAOP-R	650
366058.80	366097.28		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	1073	1055	1962	844	650	1	36.30	Y	MAOP-R	650
366097.28	366108.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366108.80	366156.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366156.80	366186.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366186.80	366348.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366348.80	366545.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366545.10	366548.00		ELBW	1962	20.00		0.500	1	30000	1		N/A	N/A		1.00	750	1055	1962	703	650	3	43.30	Y	MAOP-R	650
366548.00	366619.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366619.70	366664.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366664.70	366714.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366714.70	366789.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366789.70	366854.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366854.70	366939.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
366939.70	367039.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367039.70	367149.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367149.70	367249.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367249.70	367514.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367514.70	367569.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367569.70	367614.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367614.70	367627.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367627.70	367657.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc We		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

MAOP Report Version 3.0.030912

MAOP Report Details: 306\_P2

Historic MP	Begin Measure	End Measure	Component	Year Installed	OD	OD Rationale	WT	Wall Thickness Rationale	SMYS	SMYS Rationale	Fitting Rating	Rating Rationale	Seam Type	Seam Type Rationale	Joint Efficiency Factor	MAOP Per Design	Test Pressure	Test Year	MAOP Per Test	MAOP per R	Class	% SMYS per R	Operating In Class	MAOP Limit Factor	Feature MAOP
367657.70	367759.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367759.70	367819.70		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
367819.70	368171.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368171.10	368171.10		TAP	1984	1.05		0.000		0				N/A		1.00	0	1055	1962	0	650	3			MAOP-D	0
368171.10	368195.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368195.10	368195.10		TAP	1984	1.05		0.000		0				N/A		1.00	0	1055	1962	0	650	3			MAOP-D	0
368195.10	368230.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368230.10	368230.10		TAP	1984	8.63		0.000		0				N/A		1.00	0	1055	1962	0	650	3			MAOP-D	0
368230.10	368250.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368250.10	368330.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368330.10	368400.40		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368400.40	368650.00		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368650.00	368745.40		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368745.40	368746.20		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368746.20	368747.40		PIPE	1962	8.63		0.219		35000				Seamless		1.00	888	1055	1962	703	650	3	36.60	Y	MAOP-R	650
368747.40	368748.90		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368748.90	368748.90		TAP	1962	8.63		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
368748.90	368750.40		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368750.40	368750.40		TAP	1962	8.63		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
368750.40	368751.90		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368751.90	368751.90		TAP	1962	8.63		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
368751.90	368753.40		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368753.40	368753.40		TAP	1962	8.63		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
368753.40	368754.90		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368754.90	368754.90		TAP	1962	8.63		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
368754.90	368755.70		PIPE	1962	20.00		0.435		35000				Seamless		1.00	761	1055	1962	703	650	3	42.70	Y	MAOP-R	650
368755.70	368760.80		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368760.80	368760.80		TAP	1962	1.66		0.000		0				N/A		1.00	0	1055	1962	703	650	3			MAOP-D	0
368760.80	368807.10		PIPE	1962	20.00		0.344		52000				Double Submerged Arc W		1.00	894	1055	1962	703	650	3	36.30	Y	MAOP-R	650
368807.10	368810.10		RDCR	1962	20.00		0.344		50000				N/A		1.00	860	1055	1962	703	650	3	37.80	Y	MAOP-R	650
368810.10	368826.10		PIPE	1962	30.00		0.563		50000				Double Submerged Arc W	1	1.00	938	1055	1962	703	650	3	34.60	Y	MAOP-R	650

Footnote Key

- 1 Historical Procurement Practices / Sound Engineering Analysis
- 2 Field Verification
- A Design Pressure per 49 CFR, §192.611
- B Operating at a reduced pressure as compared to MAOP from MAOP Catalog

MAOP Limit Factor Key

- R = MAOP per MAOP Catalog
- T = Test Pressure
- D = Design Pressure

Other Nomenclature

N/A = Not Applicable

# MAOP Validation Summary Report

Referenced from: "AGA White Paper on Verification of MAOPs for Existing Steel Transmission Pipelines"

Identity of Pipeline/Distribution Area: 306\_P2



A. Maximum Allowable Operating Pressure: Steel or Plastic Pipelines (Part 192.619): and High-Pressure Distribution Systems (Part 192.621).

Part 192.619(a)(1) Design Pressure: Lowest design pressure  
Part 192.621(a)(1) for any of the following system elements

Pipe (including service lines)	650
Valves	960
Flanges	N/A
Fittings	1050
Mechanical Couplings	N/A
Leak Clamps	N/A
Instruments	N/A
Odorizers	N/A
Overpressure Protection Devices	N/A
Overpressure Protection Devices	N/A
Pressure Rating	N/A
Downstream Regulators-Inlet	N/A
Pressure Rating	N/A
Other (list)	N/A

Part 192.619(a)(2) Pressure Test

Plastic Pipe: Test Pressure divided by 1.5	N/A
Steel Pipe operated at or over 100 psi: Test Pressure divided by Class	702

**NOTE: Some features on this line are not covered by a pressure test**

Part 192.619(a)(3) Historic Operations

Highest operating pressure between 7/1/65 and 7/1/70 unless the pressure test in (a)(2) was after 7/1/65 or an uprating in accordance with Subpart K has been conducted.

N/A

B. Part 192.621: High Pressure Distribution Systems Only.

Part 192.621(a)(2) 60 psig unless all services have overpressure protection	N/A
Part 192.621(a)(3) 25 psig for any cast iron pipe with unreinforced joints	N/A
Part 192.621(a)(4) Pressure limit on joints	N/A

C. Part 192.619(a)(3) and Part 192.621(a)(5): Additional Consideration for Transmission or High Pressure Distribution Lines.

Highest operating pressure considered safe based on operating history	650 / 840
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D. Part 192.623: Low Pressure Distribution Systems.

C. Part 192.619(a)(3) and Part 192.621(a)(5): Additional Consideration for Transmission or High Pressure Distribution Lines.

Highest operating pressure considered safe based on operating history 650 / 840

D. Part 192.623: Low Pressure Distribution Systems.

Highest delivery pressure which can be safely applied to customer piping and properly adjusted gas appliances. N/A

E. Part 192.619(c): Alternate consideration for transmission lines. Highest operating pressure between 7/1/65 and 7/1/70 (7/1/71 and 7/1/76 for offshore gathering lines.)

N/A

F. Determination of MAOP.

Either item E, where applicable, or the lowest pressure on any of the above lines is the MAOP.

MAOP: 0 / 840

Data Current as of: 5/1/2019

PFL Build Team: \_\_\_\_\_

MAOP Documentation Reviewed by: \_\_\_\_\_  
Technical Advisory Manager

MAOP Documentation Prepared by: \_\_\_\_\_  
Field Verification Engineer

MAOP Documentation Approved by: \_\_\_\_\_  
MAOP Engineering Director