

**EMERGENCY WORKOVER PLAN
UNOCAL-ENCANA 13D-16D
API NUMBER = 045-13796**

LATITUDE = 39.52081

LONGITUDE = -108.12422

**LEGAL LOCATION = NESE, SECTION 17, TOWNSHIP
6S, RANGE 96W, SIXTH PRIME MERIDIAN**

**GARFIED COUNTY ROAD 215, 6.6 MILES NORTH OF
PARACHUTE, COLORADO**

Prepared for:

**CAERUS OIL AND GAS, LLC
Parachute, Colorado**



EMERGENCY CONTACTS AND INFORMATION

Emergency Contacts for Production Facilities/Lease Roads	
Dean Lawton	(970)-201-5417
Keith Rice	(970)-644-0364
Daniel Treto	(970)-250-7385
Jake Janicek	(970)-778-2314
Jessy Rippee	(970)-986-0734
Carl Turnipseed	(970)-930-5057
Emergency Contacts for Wellbore Operations/Completions/Flowback	
Natalie Naeve	(720)-505-6080
Jake Janicek	(970)-778-2314
Carl Turnipseed	(970)-930-5057
Emergency Contacts for Hydrogen Sulfide Incidents	
Steve Deines	(970)-456-6062
Jake Janicek	(970)-778-2314
Keith Rice	(970)-644-0364
Dean Lawton	(970)-201-5417
Carl Turnipseed	(970)-930-5057

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1.0 INTRODUCTION

This Emergency Workover Plan has been prepared in compliance with Attachment D of the Notice to Operators – Reporting Hydrogen Sulfide (H₂S) dated April 13, 2012. It includes site specific information, key Caerus personnel, rescue personnel, details of personal protection equipment, details of H₂S monitoring equipment, details of the metallurgical properties of all piping and tubular goods (Appendix A), and pressure testing records from 2015 (Appendix B). Workover rig orientation, site specific production equipment, locations of hazard communication, roads, surrounding terrain, and other pertinent site information is depicted on Figure 1.

2.0 KEY PERSONNEL

2.1 CAERUS OIL AND GAS KEY PERSONNEL

The following personnel will be the primary decision-makers when implementing this plan and its best management practices designed to protect workers from gas with hazardous concentrations of hydrogen sulfide.

Garrett Elsener – Operations Engineer II

Phone # 303-551-3907

Responsibilities: Contracting and directing workover company. He will be in direct oversight of all jobs the workover rig performs.

Steve Deines – Hydrogen Sulfide Mitigation Team Lead

Phone # 970-456-6062

Responsibilities: Setting up monitoring systems and testing the well before wellbore work is initiated on a daily basis. He will ensure that the well is treated with chemical that is designed to decrease the concentration of hydrogen sulfide in the wellbore.

Jake Janicek – EHS Professional

Phone # 970-778-2314

Responsibilities: Ensures that all internal and agency regulations concerning the hazards of hydrogen sulfide are followed.

Carl Turnipseed – Production Manager

Phone # 970-930-5057

Responsibilities: Ensures that workover rig team and Hydrogen Sulfide Mitigation Team are communicating.

2.2 RESCUE AND MANAGEMENT PERSONNEL

The nearest emergency provider is the:

Grand Valley Fire Protection District located
0124 Stone Quarry Road
Parachute, Colorado 81635
970-285-9119

The law enforcement jurisdiction would be:

Garfield County Sheriff's Office
106 County Road 333-A
Rifle, Colorado 81650
(970) 665-0200

The nearest hospital would be:

Grand River Hospital
501 Airport Road
Rifle, Colorado 81650
(970) 625-1510

Directions: Take County Road 215 6.6 miles south to Interstate 70; Take Interstate 70 east for 16.8 miles; Take Main Rifle Exit (90); Turn south through first round-a-bout; Turn east at second round-a-bout; travel 0.4 miles and hospital will be on your right.

The nearest COGCC office is located at:

796 Megan Ave, Suite 201
Rifle, Colorado 81650
970-625-2497.

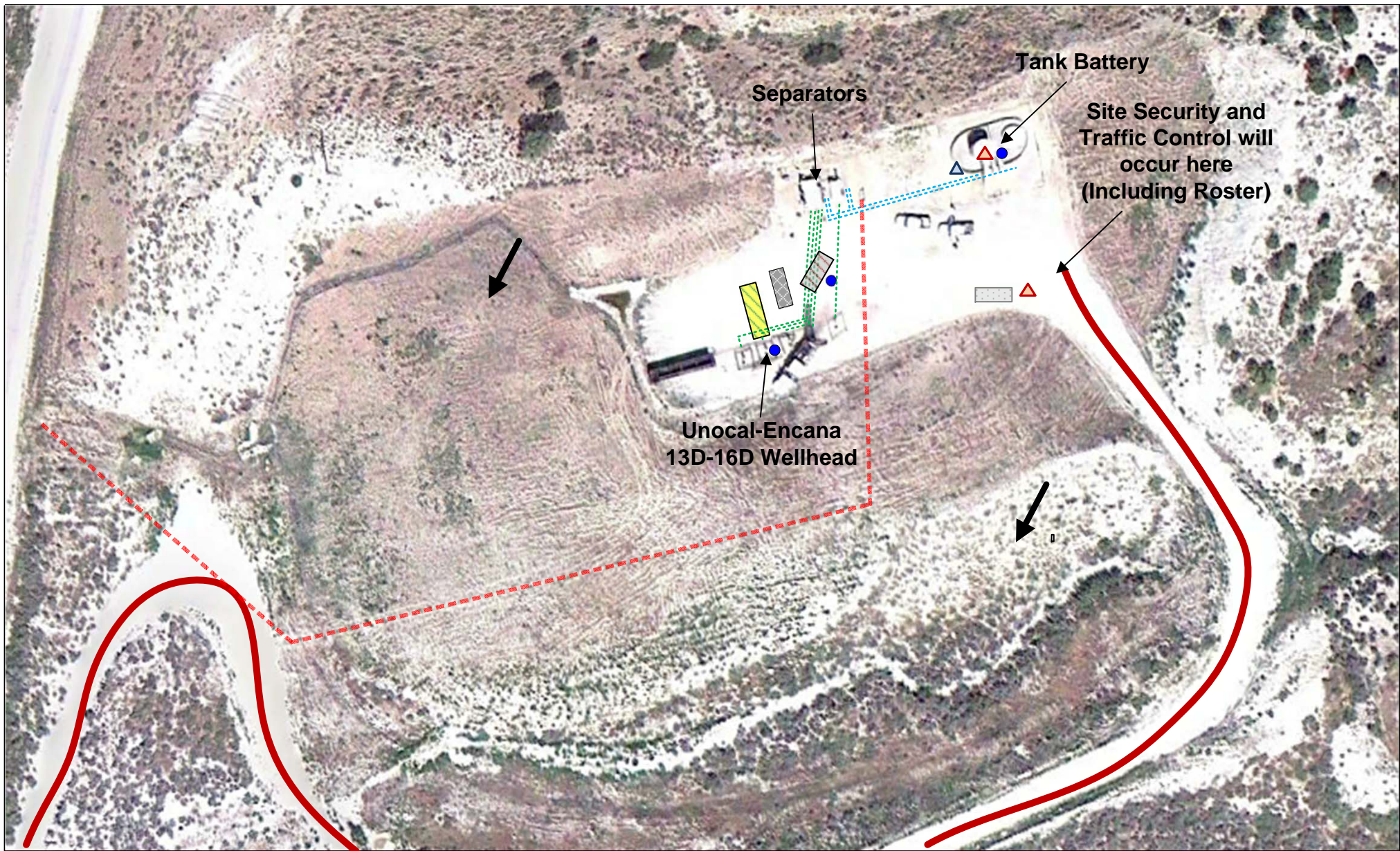
3.0 TRAINING AND PERSONAL PROTECTION EQUIPMENT

All personnel working on the workover rig will be provided hydrogen sulfide awareness training. Site specific training will also be provided by our hydrogen sulfide mitigation team lead. Specifics of this training will include daily wellbore testing/clearance rules, locations and use of hydrogen sulfide monitors, muster points, and emergency evacuation procedures.

All personnel working on the workover rig will have an escape pack positioned near the rig floor. There will be three monitors on the location: one at the wellhead, one at the rig tank, and one at the onsite tank battery. These locations can also be seen on Figure 1.

Respirators will only be worn by personnel who have been cleared to wear them through Caerus's Respiratory Protection Program. Calibration and maintenance records for the air cylinders and harness system will be provided upon request. Staff wearing respirators are able to communicate normally while wearing them.

FIGURE 1
SITE DIAGRAM



120 North Railroad Ave.
Parachute, CO 81635
TEL 970.285.9606

LEGEND

- Flowlines
- Dumlplines
- Workover Rig
- Gathering Lines
- Workover Rig Tank
- Workover Rig Pump
- Briefing Area/Doghouse

- H2S Monitor/Sensor/Audible Alarm/Flashing Light
- Access/Egress Roads
- ▲ Caution Signs
- ▲ Wind Socks
- ➔ Prevailing Wind Direction

SITE MAP
Unocal 6 Workover Plan
Site Orientation
Garfield County Colorado

SITE LOCATION:
39.540947°N 108.117917°W



Not to Scale

APPENDIX A
METALLUGICAL PROPERTIES OF PIPING AND TUBULAR GOODS

API Tubing Table



Tubing Table

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O.D. (inch)	NOMINAL WEIGHT T&C (lbs/ft)		GRADE	COLLAPSE (psi)	INTERNAL YIELD PRESSURE at MINIMUM YIELD (psi)				JOINT STRENGTH (lbs)			BODY YIELD (lbs)	WALL (inch)	I.D. (inch)	DRIFT DIAMETER (inch)		
	NUE	T&C			EUE	T&C	PE, NUE T&C	BUTTR. T&C	EUE T&C		NUE T&C					BUTTR. T&C	EUE T&C
									REGULAR CPL.	SPEC. CPL.							
1	1.14	1.2	H-40	7680	7530		7530		6360		13300	13300	0.113	0.824	0.73		
1	1.14	1.2	J-55	10560	10360		10360		8740		18300	18300	0.113	0.824	0.73		
1	1.14	1.2	LS-65	12480	12240		12240		10330		21600	21600	0.113	0.824	0.73		
1	1.14	1.2	L-80	15370	15070		15070		12720		26600	26600	0.113	0.824	0.73		
1	1.14	1.2	N-80	15370	15070		15070		12720		26600	26600	0.113	0.824	0.73		
1	1.14	1.2	T-95	18250	17890		17890		15100		31600	31600	0.113	0.824	0.73		
1 1/4	1.7	1.8	H-40	7270	7080		7080		10960		19800	19800	0.133	1.049	0.955		
1 1/4	1.7	1.8	J-55	10000	9730		9730		15060		27200	27200	0.133	1.049	0.955		
1 1/4	1.7	1.8	LS-65	11820	11500		11500		17800		32100	32100	0.133	1.049	0.955		
1 1/4	1.7	1.8	L-80	14550	14160		14160		21910		39500	39500	0.133	1.049	0.955		
1 1/4	1.7	1.8	N-80	14550	14160		14160		21910		39500	39500	0.133	1.049	0.955		
1 1/4	1.7	1.8	T-95	17270	16810		16810		26020		46900	46900	0.133	1.049	0.955		
1 1/2	2.3	2.4	H-40	6180	5900		5900		15530		26700	26700	0.14	1.38	1.286		
1 1/2	2.3	2.4	J-55	8490	8120		8120		21360		36800	36800	0.14	1.38	1.286		
1 1/2	2.3	2.4	LS-65	10040	9590		9590		25240		43500	43500	0.14	1.38	1.286		
1 1/2	2.3	2.4	L-80	12360	11810		11810		31060		53500	53500	0.14	1.38	1.286		
1 1/2	2.3	2.4	N-80	12360	11810		11810		31060		53500	53500	0.14	1.38	1.286		

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O.D. (inch)	NOMINAL WEIGHT T&C (lbs/ft)		GRADE	COLLAPSE (psi)	INTERNAL YIELD PRESSURE at MINIMUM YIELD (psi)				JOINT STRENGTH (lbs)			BODY YIELD (lbs)	WALL (inch)	I.D. (inch)	DRIFT DIAMETER (inch)		
	NUE	T&C			EUE	T&C	PE, NUE T&C	BUTTR. T&C	EUE T&C		NUE T&C					BUTTR. T&C	EUE T&C
									REGULAR CPL.	SPEC. CPL.							
1 1/2	2.3	2.4	T-95	14670	14020		14020		36900		63500	63500	0.14	1.38	1.286		
2	2.75	2.9	H-40	5640	5340		5340		19100		32000	32000	0.145	1.61	1.516		
2	2.75	2.9	J-55	7750	7350		7350		26300		44000	44000	0.145	1.61	1.516		
2	2.75	2.9	LS-65	9160	8680		8680		31000		52000	52000	0.145	1.61	1.516		
2	2.75	2.9	L-80	11280	10680		10680		38200		64000	64000	0.145	1.61	1.516		
2	2.75	2.9	N-80	11280	10680		10680		38200		64000	64000	0.145	1.61	1.516		
2	2.75	2.9	T-95	13440	12690		12690		45300		75900	75900	0.145	1.61	1.516		
2 1/16	3.25		H-40	5590	5290		5290				35700	37400	0.156	1.751	1.657		
2 1/16	3.25		J-55	7690	7280		7280				49100	51400	0.156	1.751	1.657		
2 1/16	3.25		LS-65	9090	8600		8600				57900	60700	0.156	1.751	1.657		
2 1/16	3.25		L-80	11180	10590		10590				71400	74800	0.156	1.751	1.657		
2 1/16	3.25		N-80	11180	10590		10590				71400	74800	0.156	1.751	1.657		
2 1/16	3.25		T-95	13240	12570		12570				84700	88800	0.156	1.751	1.657		
2 1/16	3.25		P-110	15680	14560		14560				98100	102800	0.156	1.751	1.657		
2 3/8	4		H-40	5230	4920				30100			46300	0.167	2.041	1.947		
2 3/8	4		J-55	7190	6770				41400			63700	0.167	2.041	1.947		
2 3/8	4		L-80	9980	9840				60300			92700	0.167	2.041	1.947		

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O.D. (inch)	NOMINAL WEIGHT T&C (lbs/ft)		GRADE	COLLAPSE (psi)	INTERNAL YIELD PRESSURE at MINIMUM YIELD (psi)				JOINT STRENGTH (lbs)			BODY YIELD (lbs)	WALL (inch)	I.D. (inch)	DRIFT DIAMETER (inch)		
	NUE	T&C			EUE	T&C	PE, NUE T&C	BUTTR. T&C	EUE T&C		NUE T&C					BUTTR. T&C	EUE T&C
									REGULAR CPL.	SPEC. CPL.							
2 3/8	4		N-80	9980	9840				60300			92700	0.167	2.041	1.947		
2 3/8	4		T-95	11410	11690				71600			110000	0.167	2.041	1.947		
2 3/8	4.6	4.7	H-40	5890	5600	5600	5600	5600	36000	52200	52200	52200	0.19	1.995	1.901		
2 3/8	4.6	4.7	J-55	8100	7700	7700	7700	7700	49500	71700	71700	71700	0.19	1.995	1.901		
2 3/8	4.6	4.7	LS-65	9570	9100	9100	9100	9100	58400	84800	84800	84800	0.19	1.995	1.901		
2 3/8	4.6	4.7	L-80	11780	11200	11200	11200	11200	71900	104300	104300	104300	0.19	1.995	1.901		
2 3/8	4.6	4.7	N-80	11780	11200	11200	11200	11200	71900	104300	104300	104300	0.19	1.995	1.901		
2 3/8	4.6	4.7	T-95	13980	13300	13300	13300	13300	85400	123900	123900	123900	0.19	1.995	1.901		
2 3/8	4.6	4.7	P-110	16130	15400	15400	15400	15400	98900	143500	143500	143500	0.19	1.995	1.901		
2 3/8	5.8	5.95	L-80	15280	14970	14850	14850	11430	103000	135400	135400	135400	0.254	1.867	1.773		
2 3/8	5.8	5.95	N-80	15280	14970	14850	14850	11430	103000	135400	135400	135400	0.254	1.867	1.773		
2 3/8	5.8	5.95	T-95	18150	17780	17640	17640	13570	122300	160800	160800	160800	0.254	1.867	1.773		
2 3/8	5.8	5.95	P-110	21010	20590	20590	20430	15720	141600	186200	186200	186200	0.254	1.867	1.773		
2 7/8	6.4	6.5	H-40	5580	5280	5280	5280	5280	52800	72500	72500	72500	0.217	2.441	2.347		
2 7/8	6.4	6.5	J-55	7680	7260	7260	7260	7260	72600	99700	99700	99700	0.217	2.441	2.347		
2 7/8	6.4	6.5	LS-65	9070	8590	8590	8590	8590	85800	117800	117800	117800	0.217	2.441	2.347		
2 7/8	6.4	6.5	L-80	11170	10570	10570	10570	10570	105600	145000	145000	145000	0.217	2.441	2.347		
2 7/8	6.4	6.5	N-80	11170	10570	10570	10570	10570	105600	145000	145000	145000	0.217	2.441	2.347		
2 7/8	6.4	6.5	T-95	12940	12550	12550	12550	12550	125400	172100	172100	172100	0.217	2.441	2.347		

API Tubing Table



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O.D. (inch)	NOMINAL WEIGHT T&C (lbs/ft)		GRADE	COLLAPSE (psi)	INTERNAL YIELD PRESSURE at MINIMUM YIELD (psi)				JOINT STRENGTH (lbs)			BODY YIELD (lbs)	WALL (inch)	I.D. (inch)	DRIFT DIAMETER (inch)		
	NUE	T&C			EUE	T&C	PE, NUE T&C	BUTTR. T&C	EUE T&C		NUE T&C					BUTTR. T&C	EUE T&C
									REGULAR CPL.	SPEC. CPL.							
2 7/8	6.4	6.5	P-110	14550	14530	14530	14530	14530	145200	199300	199300	199300	0.217	2.441	2.347		
2 7/8	7.8	7.9	L-80	13890	13440	13440	13440	11040	140900	180300	180300	180300	0.276	2.323	2.229		
2 7/8	7.8	7.9	N-80	13890	13440	13440	13440	11040	140900	180300	180300	180300	0.276	2.323	2.229		
2 7/8	7.8	7.9	T-95	16490	15960	15960	15960	13110	167300	214100	214100	214100	0.276	2.323	2.229		
2 7/8	7.8	7.9	P-110	19090	18480	18480	18480	15180	193700	247900	247900	247900	0.276	2.323	2.229		
2 7/8	8.6	8.7	L-80	15300	15000	15000	14950	11040	159300	198700	198700	198700	0.308	2.259	2.165		
2 7/8	8.6	8.7	N-80	15300	15000	15000	14950	11040	159300	198700	198700	198700	0.308	2.259	2.165		
2 7/8	8.6	8.7	T-95	18170	17810	17810	17750	13110	189200	236000	236000	236000	0.308	2.259	2.165		
2 7/8	8.6	8.7	P-110	21040	20620	20620	20560	15180	219100	273200	273200	273200	0.308	2.259	2.165		
3 1/2	7.7		H-40	4630	4320				65100		89100		0.216	3.068	2.943		
3 1/2	7.7		J-55	5970	5940				89500		122600		0.216	3.068	2.943		
3 1/2	7.7		L-80	7870	8640				130100		178300		0.216	3.068	2.943		
3 1/2	7.7		N-80	7870	8640				130100		178300		0.216	3.068	2.943		
3 1/2	7.7		T-95	8850	10260				154500		211700		0.216	3.068	2.943		
3 1/2	9.2	9.3	H-40	5380	5080	5080	5080	5080	79500	103600	103600	103600	0.254	2.992	2.867		
3 1/2	9.2	9.3	J-55	7400	6990	6990	6990	6990	109400	142500	142500	142500	0.254	2.992	2.867		
3 1/2	9.2	9.3	LS-65	8750	8260	8260	8260	8260	129300	168400	168400	168400	0.254	2.992	2.867		
3 1/2	9.2	9.3	L-80	10540	10160	10160	10160	10160	159100	207200	207200	207200	0.254	2.992	2.867		
3 1/2	9.2	9.3	N-80	10540	10160	10160	10160	10160	159100	207200	207200	207200	0.254	2.992	2.867		

API Tubing Table



Tubing Table

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O.D. (inch)	NOMINAL WEIGHT T&C (lbs/ft)		GRADE	COLLAPSE (psi)	INTERNAL YIELD PRESSURE at MINIMUM YIELD (psi)				JOINT STRENGTH (lbs)			BODY YIELD (lbs)	WALL (inch)	I.D. (inch)	DRIFT DIAMETER (inch)		
	NUE	T&C			EUE	T&C	PE, NUE T&C	BUTTR. T&C	EUE T&C		NUE T&C					BUTTR. T&C	EUE T&C
									REGULAR CPL.	SPEC. CPL.							
3 1/2	9.2		9.3	T-95	12080	12070	12070	12070	12070	188900	246100	246100	246100	0.254	2.992	2.867	
3 1/2	9.2		9.3	P-110	13530	13970	13970	13970	13970	218700	284900	284900	284900	0.254	2.992	2.867	
3 1/2	10.2			H-40	6060	5780				92500			116600	0.289	2.922	2.797	
3 1/2	10.2			J-55	8330	7950				127300			160300	0.289	2.922	2.797	
3 1/2	10.2			LS-65	9850	9390				150400			189500	0.289	2.922	2.797	
3 1/2	10.2			L-80	12120	11560				185100			233200	0.289	2.922	2.797	
3 1/2	10.2			N-80	12120	11560				185100			233200	0.289	2.922	2.797	
3 1/2	10.2			T-95	14390	13730				219800			277000	0.289	2.922	2.797	
3 1/2	12.7		12.95	L-80	15310	15000	15000	15000	10660	246400		294500	294500	0.375	2.75	2.625	
3 1/2	12.7		12.95	N-80	15310	15000	15000	15000	10660	246400		294500	294500	0.375	2.75	2.625	
3 1/2	12.7		12.95	T-95	18180	17810	17810	17810	12660	292600		349700	349700	0.375	2.75	2.625	
3 1/2	12.7		12.95	P-110	21050	20630	20630	20630	14650	338800		405000	405000	0.375	2.75	2.625	
4	9.5			H-40	4050	3960				72000		107200		0.226	3.548	3.423	
4	9.5			J-55	5110	5440				99000		147400		0.226	3.548	3.423	
4	9.5			L-80	6590	7910				144000		214400		0.226	3.548	3.423	
4	9.5			N-80	6590	7910				144000		214400		0.226	3.548	3.423	
4	9.5			T-95	97310	9390				171000		254600		0.226	3.548	3.423	
4			11	H-40	4900	4590		4590				123100	123100	0.262	3.476	3.351	
4			11	J-55	6590	6300		6300				169200	169200	0.262	3.476	3.351	

API Tubing Table



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O.D. (inch)	NOMINAL WEIGHT T&C (lbs/ft)		GRADE	COLLAPSE (psi)	INTERNAL YIELD PRESSURE at MINIMUM YIELD (psi)				JOINT STRENGTH (lbs)			BODY YIELD (lbs)	WALL (inch)	I.D. (inch)	DRIFT DIAMETER (inch)
	NUE T&C	EUE T&C			PE, NUE T&C	BUTTR. T&C	EUE T&C		NUE T&C	BUTTR. T&C	EUE T&C				
							REGULAR CPL.	SPEC. CPL.							
4		11	L-80	8800	9170		9170				246100	246100	0.262	3.476	3.351
4		11	C-90	9590	10320		10320				276900	276900	0.262	3.476	3.351
4		11	T-95	9980	10890		10890				292300	292300	0.262	3.476	3.351
4 1/2	12.6	12.75	H-40	4490	4220		4220		104400		144000	144000	0.271	3.958	3.833
4 1/2	12.6	12.75	J-55	5730	5800		5800		143500		198000	198000	0.271	3.958	3.833
4 1/2	12.6	12.75	L-80	7500	8430		8430		208700		288000	288000	0.271	3.958	3.833
4 1/2	12.6	12.75	N-80	7500	8430		8430		208700		288000	288000	0.271	3.958	3.833
4 1/2	12.6	12.75	T-95	8410	10010		10010		247900		342000	342000	0.271	3.958	3.833

CASING TABLE



CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
4.5	9.5	J-55	3310	4380	101			152	0.205	4.09	3.965		
4.5	9.5	K-55	3310	4380	112			152	0.205	4.09	3.965		
4.5	9.5	WC-50*	3150	4000*	107			138	0.205	4.09	3.965		
4.5	10.5	J-55	4010	4790	132		203	166	0.224	4.052	3.927		
4.5	10.5	K-55	4010	4790	146		249	166	0.224	4.052	3.927		
4.5	10.5	WC-50*	3780	4400*	122			150	0.224	4.052	3.927		
4.5	11.6	J-55	4960	5350	154	162	225	184	0.25	4	3.875		
4.5	11.6	K-55	4960	5350	170	180	277	184	0.25	4	3.875		
4.5	11.6	WC-50*	4640	4900*	141	149		167	0.25	4	3.875		
4.5	11.6	L-80	6350	7780		212	291	267	0.25	4	3.875		
4.5	11.6	HCL-80	8650	7780		223	312	267	0.25	4	3.875		
4.5	11.6	N-80	6350	7780		223	304	267	0.25	4	3.875		
4.5	11.6	HCN-80	8650	7780		223	312	267	0.25	4	3.875		
4.5	11.6	S-95	8650	9240		245	338	317	0.25	4	3.875		
4.5	11.6	HCP-110	8650	10690		279	385	367	0.25	4	3.875		
4.5	11.6	P-110	7580	10690		279	385	367	0.25	4	3.875		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
4.5	13.5	L-80	8540	9020		257	334	307	0.29	3.92	3.795		
4.5	13.5	HCL-80	10380	9020		270	359	307	0.29	3.92	3.795		
4.5	13.5	N-80	8540	9020		270	349	307	0.29	3.92	3.795		
4.5	13.5	HCN-80	10380	9020		270	359	307	0.29	3.92	3.795		
4.5	13.5	S-95	10380	10710		297	388	364	0.29	3.92	3.795		
4.5	13.5	P-110	10680	12410		338	443	422	0.29	3.92	3.795		
4.5	13.5	HCP-110	11250	12410		338	443	422	0.29	3.92	3.795		
4.5	15.1	L-80	11090	10480		308	384	353	0.337	3.826	3.701		
4.5	15.1	HCL-80	12330	10480		325	408	353	0.337	3.826	3.701		
4.5	15.1	S-95	12330	12450		357	446	419	0.337	3.826	3.701		
4.5	15.1	P-110	14350	14420		406	509	485	0.337	3.826	3.701		
4.5	15.1	Q-125	15840	16380		438	554	551	0.337	3.826	3.701		
4.5	15.1	LS-140	17240	18350		487	616	617	0.337	3.826	3.701		
4.5	15.1	V-150	18110	19660		519	658	661	0.337	3.826	3.701		
4.5	15.1	HCP-110	14341	14420		406	509	485	0.337	3.826	3.701		
5	13	J-55	4140	4870	169	182	252	208	0.253	4.494	4.369		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
5	13	K-55	4140	4870	186	201	309	208	0.253	4.494	4.369		
5	15	J-55	5560	5700	207	223	293	241	0.296	4.408	4.283		
5	15	K-55	5560	5700	228	246	359	241	0.296	4.408	4.283		
5	15	L-80	7250	8290		295	379	350	0.296	4.408	4.283		
5	15	HCL-80	9380	8290		311	408	350	0.296	4.408	4.283		
5	15	N-80	7250	8290		311	396	350	0.296	4.408	4.283		
5	15	HCN-80	9380	8290		311	408	350	0.296	4.408	4.283		
5	15	S-95	9380	9840		342	441	416	0.296	4.408	4.283		
5	15	P-110	8850	11400		388	503	481	0.296	4.408	4.283		
5	15	V-150	10250	15540		497	651	656	0.296	4.408	4.283		
5	18	L-80	10500	10140		377	457	422	0.362	4.276	4.151		
5	18	HCL-80	11880	10140		396	492	422	0.362	4.276	4.151		
5	18	N-80	10500	10140		396	477	422	0.362	4.276	4.151		
5	18	HCN-80	11880	10140		396	492	422	0.362	4.276	4.151		
5	18	S-95	12030	12040		436	532	501	0.362	4.276	4.151		
5	18	P-110	13470	13940		495	606	580	0.362	4.276	4.151		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
5	18	Q-125	14830	15840		535	661	659	0.362	4.276	4.151		
5	18	LS-140	16080	17740		594	735	738	0.362	4.276	4.151		
5	18	V-150	16860	19010		634	785	791	0.362	4.276	4.151		
5	21.4	L-80	12760	12240		466	510	501	0.437	4.126	4.001		
5	21.4	N-80	12760	12240		490	537	501	0.437	4.126	4.001		
5	21.4	P-110	17550	16820		613	671	689	0.437	4.126	4.001		
5	21.4	Q-125	19940	19120		662	724	783	0.437	4.126	4.001		
5	23.2	L-80	13830	13380		513	510	543	0.478	4.044	3.919		
5	23.2	HCL-80	15820	13380		540	516	543	0.478	4.044	3.919		
5	23.2	N-80	13830	13380		540	537	543	0.478	4.044	3.919		
5	23.2	HCN-80	15820	13380		540	537	543	0.478	4.044	3.919		
5	23.2	S-95	16430	15890		594	590	645	0.478	4.044	3.919		
5	23.2	P-110	19020	18400		675	671	747	0.478	4.044	3.919		
5	23.2	Q-125	21620	20910		729	724	849	0.478	4.044	3.919		
5	24.1	L-80	14400	14000		538	510	566	0.5	4	3.875		
5	24.1	N-80	14400	14000		558	537	566	0.5	4	3.875		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
5	24.1	P-110	19800	19250		708	671	778	0.5	4	3.875		
5	24.1	Q-125	22500	21880		765	724	884	0.5	4	3.875		
5	24.1	V-150	27000	26250		907	858	1060	0.5	4	3.875		
5.5	14	J-55	3120	4270	172			222	0.244	5.012	4.887		
5.5	14	WC-50*	2970	3900*	158			201	0.244	5.012	4.887		
5.5	15.5	J-55	4040	4810	202	217	300	248	0.275	4.95	4.825		
5.5	15.5	K-55	4040	4810	222	239	366	248	0.275	4.95	4.825		
5.5	15.5	WC-50*	3810	4400*	185	199		226	0.275	4.95	4.825		
5.5	17	J-55	4910	5320	229	247	329	273	0.304	4.892	4.767		
5.5	17	K-55	4910	5320	252	272	402	273	0.304	4.892	4.767		
5.5	17	WC-50*	4590	4900*	210	227		248	0.304	4.892	4.767		
5.5	17	L-80	6390	7740		338	428	397	0.304	4.892	4.767		
5.5	17	HCL-80	8580	7740		356	462	397	0.304	4.892	4.767		
5.5	17	N-80	6390	7740		348	446	397	0.304	4.892	4.767		
5.5	17	HCN-80	8580	7740		356	462	397	0.304	4.892	4.767		
5.5	17	S-95	8580	9190		392	498	471	0.304	4.892	4.767		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
5.5	17	HCP-110	8580	10640		445	568	546	0.304	4.892	4.767		
5.5	17	P-110	7480	10640		445	568	546	0.304	4.892	4.767		
5.5	17	HCQ-125	8580	12090		481	620	620	0.304	4.892	4.767		
5.5	17	Q-125	7890	12090		481	620	620	0.304	4.892	4.767		
5.5	20	L-80	8830	9190		416	503	466	0.361	4.778			
5.5	20	HCL-80	10630	9190		438	542	466	0.361	4.778	4.653		
5.5	20	N-80	8830	9190		428	524	466	0.361	4.778	4.653		
5.5	20	HCN-80	10630	9190		438	542	466	0.361	4.778	4.653		
5.5	20	S-95	10630	10910		482	585	554	0.361	4.778	4.653		
5.5	20	P-110	11100	12630		548	667	641	0.361	4.778	4.653		
5.5	20	Q-125	12080	14360		592	728	729	0.361	4.778	4.653		
5.5	20	V-150	13460	17230		701	865	874	0.361	4.778	4.653		
5.5	20	P-110(EC)	12090	14360		445	568	729	0.361	4.778	4.653		
5.5	20	HCP-110	12440	14770		445	568	729	0.361	4.778	4.653		
5.5	23	L-80	11160	10560		489	550	530	0.415	4.67	4.545		
5.5	23	HCL-80	12450	10560		514	551	530	0.415	4.67	4.545		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
5.5	23	N-80	11160	10560		502	579	530	0.415	4.67	4.545		
5.5	23	HCN-80	12450	10560		514	579	530	0.415	4.67	4.545		
5.5	23	S-95	12940	12540		566	637	630	0.415	4.67	4.545		
5.5	23	P-110	14540	14530		643	724	729	0.415	4.67	4.545		
5.5	23	Q-125	16070	16510		694	782	829	0.415	4.67	4.545		
5.5	23	V-150	18390	19810		823	927	995	0.415	4.67	4.545		
5.5	23	P-110(EC)	16220	16510		643	725	829	0.415	4.67	4.545		
5.5	23	HCP-110	16520	16980		643	725	829	0.415	4.67	4.545		
5.5	26	P-110	17400	16660		748	724	826	0.476	4.548	4.423		
5.5	26	Q-125	19770	18930		808	782	939	0.476	4.548	4.423		
5.5	26	V-150	23720	22720		957	927	1127	0.476	4.548	4.423		
5.5	26	P-110(EC)	19770	18930				939	0.476	4.548	4.423		
5.5	26	HCP-110	20330	19470				939	0.476	4.548	4.423		
5.625	26.7	L-80	12420	11870		488	550	617	0.477	4.671		4.544	
5.625	26.7	HCL-80	14750	11870		501	550	617	0.477	4.671		4.544	
5.625	26.7	P-110	17080	16320		642	724	849	0.477	4.671		4.544	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
5.75	16.5	J-55	3720	4620			314	234	0.276	5.198		5.073	
5.75	18.1	J-55	4520	5090			344	286	0.304	5.142		5.017	
5.75	18.1	L-80	5700	7400			447	416	0.304	5.142		5.017	
5.75	18.1	N-80	5700	7400			466	416	0.304	5.142		5.017	
5.75	18.1	P-110	6640	10180			594	572	0.304	5.142		5.017	
5.75	19.7	J-55	5410	5610			377	313	0.335	5.08		4.955	
5.75	19.7	L-80	7030	8160			490	456	0.335	5.08		4.955	
5.75	19.7	N-80	7030	8160			511	456	0.335	5.08		4.955	
5.75	19.7	P-110	8530	11220			651	627	0.335	5.08		4.955	
5.75	21.8	L-80	8740	9130			545	507	0.375	5		4.875	
5.75	21.8	N-80	8740	9130			568	507	0.375	5		4.875	
5.75	21.8	P-110	10960	12550			723	697	0.375	5		4.875	
5.75	24.2	L-80	10650	10230			605	563	0.42	4.91		4.785	
5.75	24.2	N-80	10650	10230			630	563	0.42	4.91		4.785	
5.75	24.2	P-110	13700	14060			803	774	0.42	4.91		4.785	
6.625	20	H-40	2520	3040	184			229	0.288	6.049	5.924		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
6.625	20	J-55	2970	4180	245	266	374	315	0.288	6.049	5.924		
6.625	20	K-55	2970	4180	267	290	453	315	0.288	6.049	5.924		
6.625	24	J-55	4560	5110	314	340	453	382	0.352	5.921	5.796		
6.625	24	K-55	4560	5110	342	372	548	382	0.352	5.921	5.796		
6.625	24	L-80	5760	7440		473	592	555	0.352	5.921	5.796		
6.625	24	N-80	5760	7440		481	615	555	0.352	5.921	5.796		
6.625	24	P-110	6730	10230		641	786	763	0.352	5.921	5.796		
6.625	28	L-80	8170	8810		576	693	651	0.417	5.791	5.666		
6.625	28	N-80	8170	8810		586	721	651	0.417	5.791	5.666		
6.625	28	P-110	10160	12120		781	922	895	0.417	5.791	5.666		
6.625	32	L-80	10320	10040		666	783	734	0.475	5.675	5.55		
6.625	32	N-80	10320	10040		677	814	734	0.475	5.675	5.55		
6.625	32	P-110	13220	13800		904	1040	1009	0.475	5.675	5.55		
6.625	32	Q-125	14530	15680		989	1138	1147	0.475	5.675	5.55		
7	20	H-40	1970	2720	176			230	0.272	6.456	6.331		
7	20	J-55	2270	3740	234	257	373	316	0.272	6.456	6.331		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7	20	K-55	2270	3740	254	281	451	316	0.272	6.456	6.331		
7	20	WC-50*	2160	3400*	214			287	0.272	6.456	6.331		
7	23	J-55	3270	4360	284	313	432	366	0.317	6.366	6.241	6.25	
7	23	K-55	3270	4360	309	341	522	366	0.317	6.366	6.241	6.25	
7	23	WC-50*	3110	4000*	261	287		333	0.317	6.366	6.241		
7	23	L-80	3830	6340		435	565	532	0.317	6.366	6.241	6.25	
7	23	HCL-80	5650	6340		485	614	532	0.317	6.366	6.241	6.25	
7	23	N-80	3830	6340		442	588	532	0.317	6.366	6.241	6.25	
7	23	HCN-80	5650	6340		485	614	532	0.317	6.366	6.241	6.25	
7	23	S-95	5650	7530		512	659	632	0.317	6.366	6.241	6.25	
7	23	P-110	4440	8720				732	0.317	6.241	6.241	6.25	
7	23	HCP-110	5710*	8720				732	0.317	6.241	6.241	6.25	
7	26	J-55	4320	4980	334	367	490	415	0.362	6.276	6.151		
7	26	K-55	4320	4980	364	401	592	415	0.362	6.276	6.151		
7	26	WC-50*	4060	4600*	306	337		377	0.362	6.276	6.151		
7	26	L-80	5410	7240		511	641	604	0.362	6.276	6.151		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7	26	HCL-80	7800	7240		570	696	604	0.362	6.276	6.151		
7	26	N-80	5410	7240		519	667	604	0.362	6.276	6.151		
7	26	HCN-80	7800	7240		570	696	604	0.362	6.276	6.151		
7	26	S-95	7800	8600		602	747	717	0.362	6.276	6.151		
7	26	HCP-110	7800	9950		693	853	830	0.362	6.276	6.151		
7	26	P-110	6230	9950		639	853	830	0.362	6.276	6.151		
7	29	L-80	7020	8160		587	718	676	0.408	6.184	6.059	6.125	
7	29	HCL-80	9200	8160		655	780	676	0.408	6.184	6.059	6.125	
7	29	N-80	7020	8160		597	746	676	0.408	6.184	6.059	6.125	
7	29	HCN-80	9200	8160		655	780	676	0.408	6.184	6.059	6.125	
7	29	S-95	9200	9690		692	836	803	0.408	6.184	6.059	6.125	
7	29	HCP-110	9200	11220		797	955	929	0.408	6.184	6.059	6.125	
7	32	L-80	8610	9060		661	791	745	0.453	6.094	5.969	6	
7	32	HCL-80	10400	9060		738	832	745	0.453	6.094	5.969	6	
7	32	N-80	8610	9060		672	823	745	0.453	6.094	5.969	6	
7	32	HCN-80	10400	9060		738	860	745	0.453	6.094	5.969	6	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7	32	S-95	10400	10760		779	922	885	0.453	6.094	5.969	6	
7	32	P-110	10780	12460		897	1053	1025	0.453	6.094	5.969	6	
7	32	Q-125	11720	14160		996	1152	1165	0.453	6.094	5.969	6	
7	32	V-150	13020	16990		1180	1370	1398	0.453	6.094	5.969	6	
7	35	L-80	10180	9960		734	833	814	0.498	6.004	5.879		
7	35	HCL-80	11600	9960		819	832	814	0.498	6.004	5.879		
7	35	N-80	10180	9960		746	876	814	0.498	6.004	5.879		
7	35	HCN-80	11600	9960		819	876	814	0.498	6.004	5.879		
7	35	S-95	11650	11830		865	964	966	0.498	6.004	5.879		
7	35	P-110	13020	13700		996	1096	1119	0.498	6.004	5.879		
7	35	Q-125	14310	15560		1106	1183	1272	0.498	6.004	5.879		
7	35	V-150	16220	18680		1311	1402	1526	0.498	6.004	5.879		
7	38	L-80	11390	10800		801	832	877	0.54	5.92	5.795		
7	38	HCL-80	12700	10800		831	832	877	0.54	5.92	5.795		
7	38	N-80	11390	10800		814	876	877	0.54	5.92	5.795		
7	38	HCN-80	12700	10800		831	876	877	0.54	5.92	5.795		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7	38	S-95	13440	12830		944	964	1041	0.54	5.92	5.795		
7	38	P-110	15140	14850		1087	1096	1205	0.54	5.92	5.795		
7	38	Q-125	16750	16880		1207	1183	1370	0.54	5.92	5.795		
7	38	V-150	19240	20250		1430	1402	1644	0.54	5.92	5.795		
7	41	P-110	16990	16230		1111	1096	1307	0.59	5.82	5.695		
7	41	Q-125	19300	18440		1244	1183	1485	0.59	5.82	5.695		
7	41	V-150	22820	22130		1488	1402	1782	0.59	5.82	5.695		
7.625	24	H-40	2030	2750	212			276	0.3	7.025	6.9		
7.625	26.4	J-55	2890	4140	315	346	483	414	0.328	6.969	6.844		
7.625	26.4	K-55	2890	4140	342	377	581	414	0.328	6.969	6.844		
7.625	26.4	WC-50*	2770	3800*	289	317		376	0.328	6.969	6.844		
7.625	26.4	L-80	3400	6020		482	635	602	0.328	6.969	6.844		
7.625	26.4	HCL-80	4850	6020		533	691	602	0.328	6.969	6.844		
7.625	26.4	N-80	3400	6020		490	659	602	0.328	6.969	6.844		
7.625	26.4	HCN-80	4850	6020		553	691	602	0.328	6.969	6.844		
7.625	26.4	S-95	4850	7150		568	740	714	0.328	6.969	6.844		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7.625	26.4	HCP-110	4850	8280		654	845	827	0.328	6.969	6.844		
7.625	26.4	P-110	3920	8280		654	845	827	0.328	6.969	6.844		
7.625	29.7	L-80	4790	6890		566	721	683	0.375	6.875	6.75		
7.625	29.7	HCL-80	7150	6890		650	785	683	0.375	6.875	6.75		
7.625	29.7	N-80	4790	6890		575	749	683	0.375	6.875	6.75		
7.625	29.7	HCN-80	7150	6890		650	785	683	0.375	6.875	6.75		
7.625	33.7	L-80	6560	7900		664	820	778	0.43	6.765	6.64		
7.625	33.7	HCL-80	8800	7900		762	894	778	0.43	6.765	6.64		
7.625	33.7	N-80	6560	7900		674	852	778	0.43	6.765	6.64		
7.625	33.7	HCN-80	8800	7900		762	894	778	0.43	6.765	6.64		
7.625	33.7	S-95	8800	9380		783	957	923	0.43	6.765	6.64		
7.625	33.7	HCP-110	8800	10860		901	1093	1069	0.43	6.765	6.64		
7.625	33.7	P-110	7870	10860		901	1093	1069	0.43	6.765	6.64		
7.625	33.7	HCQ-125	8800	12340		1009	1197	1215	0.43	6.765	6.64		
7.625	33.7	Q-125	8350	12340		1009	1197	1215	0.43	6.765	6.64		
7.625	33.7	V-150	8850	14800		1207	1424	1458	0.43	6.765	6.64		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7.625	39	L-80	8820	9180		786	945	895	0.5	6.625	6.5		
7.625	39	HCL-80	10600	9180		901	1029	895	0.5	6.625	6.5		
7.625	39	N-80	8820	9180		798	981	895	0.5	6.625	6.5		
7.625	39	HCN-80	10600	9180		901	1029	895	0.5	6.625	6.5		
7.625	39	S-95	10600	10900		926	1101	1063	0.5	6.625	6.5		
7.625	39	P-110	11080	12620		1066	1258	1231	0.5	6.625	6.5		
7.625	39	Q-125	12060	14340		1194	1379	1399	0.5	6.625	6.5		
7.625	39	V-150	13440	17210		1428	1640	1679	0.5	6.625	6.5		
7.625	42.8	L-80	10810	10320		891	1053	998	0.562	6.501	6.376		
7.625	42.8	N-80	10810	10320		905	1093	998	0.562	6.501	6.376		
7.625	42.8	P-110	13920	14190		1210	1402	1372	0.562	6.501	6.376		
7.625	42.8	Q-125	15350	16120		1355	1536	1559	0.562	6.501	6.376		
7.625	45.3	HCL-80	12900	10920		1086	1177	1051	0.595	6.435	6.31		
7.625	45.3	N-80	11510	10920		962	1152	1051	0.595	6.435	6.31		
7.625	45.3	HCN-80	12900	10920		1086	1208	1051	0.595	6.435	6.31		
7.625	45.3	S-95	13660	12970		1116	1293	1248	0.595	6.435	6.31		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
7.625	45.3	P-110	15430	15020		1285	1477	1446	0.595	6.435	6.31		
7.625	45.3	Q-125	17090	17070		1439	1619	1643	0.595	6.435	6.31		
7.625	45.3	V-150	19660	20480		1721	1926	1971	0.595	6.435	6.31		
7.625	47.1	L-80	12040	11480		997	1160	1100	0.625	6.375	6.25		
7.625	47.1	N-80	12040	11480		1013	1205	1100	0.625	6.375	6.25		
7.625	47.1	T-95	14300	13630		1159	1300	1306	0.625	6.375	6.25		
7.625	47.1	P-110	16550	15780		1353	1545	1512	0.625	6.375	6.25		
7.625	47.1	Q-125	18700	17930		1515	1672	1718	0.625	6.375	6.25		
7.625	51.2	T-95	15580	14980				1423	0.687	6.251	6.126		
7.625	55.3	T-95	16850	16350				1539	0.75	6.125	6		
7.75	46.1	L-80	11340	10750		841	1001	1070	0.595	6.56	6.435	6.5	
7.75	46.1	HCL-80	13320	10750		965	1091	1070	0.595	6.56	6.435	6.5	
7.75	46.1	S-95	13320	12760		992	1168	1271	0.595	6.56	6.435	6.5	
7.75	46.1	T-95	13320	12760		978	1129	1271	0.595	6.56	6.435	6.5	
7.75	46.1	P-110	14990	14780		1142	1334	1471	0.595	6.56	6.435	6.5	
7.75	46.1	Q-125	16580	16790		1279	1462	1672	0.595	6.56	6.435	6.5	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
8.625	24	HCK-55	1780	2950	326			381	0.264	8.097	7.972		
8.625	24	J-55	1370	2950	244			381	0.264	8.097	7.972		
8.625	24	WC-50*	1330	2700*	237			347	0.264	8.097	7.972		
8.625	28	WC-50*	1800	3100*	285	319		397	0.304	8.017	7.892		
8.625	32	J-55	2530	3930	372	417	579	503	0.352	7.921	7.796	7.875	
8.625	32	K-55	2530	3930	402	452	690	503	0.352	7.921	7.796	7.875	
8.625	32	HCK-55	4130	3930	497	556	749	503	0.352	7.921	7.796	7.875	
8.625	32	WC-50*	2440	3600*	341	383		457	0.352	7.921	7.796		
8.625	36	J-55	3450	4460	434	486	654	568	0.4	7.825	7.7		
8.625	36	K-55	3450	4460	468	526	780	568	0.4	7.825	7.7		
8.625	36	HCK-55	5300	4460	579	648	847	568	0.4	7.825	7.7		
8.625	36	L-80	4100	6490		678	864	827	0.4	7.825	7.7		
8.625	36	HCL-80	6060	6490		779	945	827	0.4	7.825	7.7		
8.625	36	N-80	4100	6490		688	895	827	0.4	7.825	7.7		
8.625	36	HCN-80	6060	6490		779	945	827	0.4	7.825	7.7		
8.625	40	L-80	5520	7300		776	966	925	0.45	7.725	7.6	7.625	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
8.625	40	HCL-80	7900	7300		892	1057	925	0.45	7.725	7.6	7.625	
8.625	40	N-80	5520	7300		788	1001	925	0.45	7.725	7.6	7.625	
8.625	40	HCN-80	7900	7300		892	1057	925	0.45	7.725	7.6	7.625	
8.625	40	S-95	7900	8670		915	1127	1098	0.45	7.725	7.6	7.625	
8.625	40	HCP-110	7900	10040		1055	1228	1271	0.45	7.725	7.6	7.625	
9.625	32.3	H-40	1370	2270	254			365	0.312	9.001	8.845		
9.625	32.3	WC-40	1370	2300*	241			365	0.312	9.001	8.845		2400
9.625	36	H-40	1720	2560	294			410	0.352	8.921	8.765		
9.625	36	J-55	2020	3520	394	453	639	564	0.352	8.921	8.765		
9.625	36	K-55	2020	3520	423	489	755	564	0.352	8.921	8.765		
9.625	36	HCK-55	2980	3520	526	605	829	564	0.352	8.921	8.765		
9.625	36	WC-50*	1930	3200*	361	415		513	0.352	8.921	8.765		
9.625	40	J-55	2570	3950	452	520	714	630	0.395	8.835	8.679	8.75	
9.625	40	K-55	2570	3950	486	561	843	630	0.395	8.835	8.679	8.75	
9.625	40	WC-50*	2480	3600*	414	476		573	0.395	8.835	8.679		
9.625	40	HCK-55	4230	3950	604	64	926	630	0.395	8.835	8.679	8.75	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
9.625	40	L-80	3090	5750		727	947	916	0.395	8.835	8.679	8.75	
9.625	40	HCL-80	4230	5750		837	1042	916	0.395	8.835	8.679	8.75	
9.625	40	N-80	3090	5750		737	979	916	0.395	8.835	8.679	8.75	
9.625	40	HCN-80	4230	5750		837	1042	916	0.395	8.835	8.679	8.75	
9.625	40	S-95	4230	6820		858	1106	1088	0.395	8.835	8.679	8.75	
9.625	43.5	L-80	3810	6330		813	1038	1005	0.435	8.755	8.599	8.625	
9.625	43.5	HCL-80	5600	6330		936	1142	1005	0.435	8.755	8.599	8.625	
9.625	43.5	N-80	3810	6330		825	1074	1005	0.435	8.755	8.599	8.625	
9.625	43.5	HCN-80	5600	6330		936	1142	1005	0.435	8.755	8.599	8.625	
9.625	43.5	S-95	5600	7510		959	1213	1193	0.435	8.755	8.599	8.625	
9.625	43.5	HCP-110	5600	8700		1106	1388	1381	0.435	8.755	8.599	8.625	
9.625	47	HCL-80	7100	6870		1027	1234	1086	0.472	8.681	8.525	8.625	
9.625	47	N-80	4760	6870		905	1161	1086	0.472	8.681	8.525	8.625	
9.625	47	HCN-80	7100	6870		1027	1234	1086	0.472	8.681	8.525	8.625	
9.625	47	S-95	7100	8150		1053	1311	1289	0.472	8.681	8.525	8.625	
9.625	47	HCP-110	7100	9440		1213	1500	1493	0.472	8.681	8.525	8.625	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
9.625	47	P-110	5300	9440		1213	1500	1493	0.472	8.681	8.525	8.625	
9.625	47	HCQ-125	7100	10730		1361	1650	1697	0.472	8.681	8.525	8.625	
9.625	47	Q-125	5640	10730		1361	1650	1697	0.472	8.681	8.525	8.625	
9.625	53.5	L-80	6620	7930		1047	1286	1244	0.545	8.535	8.379	8.5	
9.625	53.5	HCL-80	8850	7930		1205	1414	1244	0.545	8.535	8.379	8.5	
9.625	53.5	N-80	6620	7930		1062	1329	1244	0.545	8.535	8.379	8.5	
9.625	53.5	HCN-80	8850	7930		1205	1414	1244	0.545	8.535	8.379	8.5	
9.625	53.5	S-95	8850	9410		1235	1502	1477	0.545	8.535	8.379	8.5	
9.625	53.5	HCP-110	8850	10900		1422	1718	1710	0.545	8.535	8.379	8.5	
9.625	53.5	P-110	7950	10900		1422	1718	1710	0.545	8.535	8.379	8.5	
9.625	53.5	HCQ-125	8850	12390		1595	1890	1943	0.545	8.535	8.379	8.5	
9.625	53.5	Q-125	8440	12390		1595	1890	1943	0.545	8.535	8.379	8.5	
9.625	53.5	V-150	8960	14860		1909	2251	2332	0.545	8.535	8.379	8.5	
9.75	59.2	S-95	9750	10150		1204	1469	1626	0.595	8.56		8.5	
9.75	59.2	HCP-110	9750	11750		1387	1681	1882	0.595	8.56		8.5	
9.75	59.2	P-110	9490	11750		1387	1681	1882	0.595	8.56		8.5	

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
9.75	59.2	Q-125	10210	13350		1555	1850	2139	0.595	8.56		8.5	
9.875	62.8	S-95	10180	10520		1123	1385	1725	0.625	8.625		8.5	
9.875	62.8	P-110	10280	12180		1294	1584	1998	0.625	8.625		8.5	
9.875	62.8	Q-125	11140	13840		1451	1743	2270	0.625	8.625		8.5	
10.75	32.75	H-40	840	1820	205			367	0.279	10.192	10.036		1400
10.75	32.75	WC-40	840	1800*	224			367	0.279	10.192	10.036		
10.75	40.5	H-40	1390	2280	314			457	0.35	10.05	9.894		
10.75	40.5	J-55	1580	3130	420		700	629	0.35	10.05	9.894		
10.75	40.5	K-55	1580	3130	450		819	629	0.35	10.05	9.894		
10.75	40.5	WC-50*	1530	2900*	385			572	0.35	10.05	9.894		
10.75	40.5	HCK-55	2100	3130	562		911	629	0.35	10.05	9.894		
10.75	40.5	N-80	1730	4560	597		964	915	0.35	10.05	9.894		
10.75	40.5	HCN-80	2100	4560	681		1034	915	0.35	10.05	9.894		
10.75	45.5	J-55	2090	3580	493		796	715	0.4	9.95	9.794	9.875	
10.75	45.5	K-55	2090	3580	528		931	715	0.4	9.95	9.794	9.875	
10.75	45.5	WC-50*	1990	3300*	451			650	0.4	9.95	9.794		

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
10.75	45.5	HCK-55	3130	3580	659		1037	715	0.4	9.95	9.794	9.875	
10.75	45.5	N-80	2470	5210	701		1097	1040	0.4	9.95	9.794	9.875	
10.75	45.5	HCN-80	3130	5210	799		1175	1040	0.4	9.95	9.794	9.875	
10.75	51	J-55	2700	4030	565		891	801	0.45	9.85	9.694		
10.75	51	K-55	2700	4030	606		1043	801	0.45	9.85	9.694		
10.75	51	HCN-80	4460	5860	916		1316	1165	0.45	9.85	9.694		
10.75	51	S-95	4460	6960	937		1392	1383	0.45	9.85	9.694		
10.75	51	HCP-110	4460	8060	1080		1594	1602	0.45	9.85	9.694		
10.75	51	P-110	3660	8060	1080		1594	1602	0.45	9.85	9.694		
10.75	51	HCQ-125	4660	9160	1213		1758	1820	0.45	9.85	9.694		
10.75	51	Q-125	3740	9160	1213		1758	1820	0.45	9.85	9.694		
10.75	55.5	HCK-55	5220	4430	843		1271	877	0.495	9.76	9.604	9.625	
10.75	55.5	L-80	4020	6450	884		1303	1276	0.495	9.76	9.604	9.625	
10.75	55.5	HCL-80	5950	6450	1010		1441	1276	0.495	9.76	9.604	9.625	
10.75	55.5	N-80	4020	6450	895		1345	1276	0.495	9.76	9.604	9.625	
10.75	55.5	HCN-80	5950	6450	1021		1441	1276	0.495	9.76	9.604	9.625	

CASING TABLE



CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
10.75	55.5	S-95	5950	7660	1043		1524	1515	0.495	9.76	9.604	9.625	
10.75	55.5	HCP-110	5950	8860	1203		1745	1754	0.495	9.76	9.604	9.625	
10.75	55.5	P-110	4610	8860	1203		1745	1754	0.495	9.76	9.604	9.625	
10.75	55.5	HCQ-125	5950	10070	1351		1925	1993	0.495	9.76	9.604	9.625	
10.75	55.5	Q-125	4850	10070	1351		1925	1993	0.495	9.76	9.604	9.625	
11.75	42	H-40	1040	1980	307		554	478	0.333	11.084	10.928	11	
11.75	42	WC-40	1040	2000*	293			478	0.333	11.084	10.928		1800
11.75	47	J-55	1510	3070	477		807	737	0.375	11	10.844		
11.75	47	K-55	1510	3070	509		935	737	0.375	11	10.844		
11.75	47	HCK-55	2000	3070	638		1054	737	0.375	11	10.844		
11.75	54	J-55	2070	3560	568		931	850	0.435	10.88	10.724		
11.75	54	K-55	2070	3560	606		1079	850	0.435	10.88	10.724		
11.75	54	HCK-55	3100	3560	760		1216	850	0.435	10.88	10.724		
11.75	60	J-55	2660	4010	649		1042	952	0.489	10.772	10.616	10.625	
11.75	60	K-55	2660	4010	693		1208	952	0.489	10.772	10.616	10.625	
11.75	60	HCK-55	4360	4010	869		1361	952	0.489	10.772	10.616	10.625	

CASING TABLE

CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
11.75	60	L-80	3180	5830	913		1399	1384	0.489	10.772	10.616	10.625	
11.75	60	HCL-80	4410	5830	1055		1555	1384	0.489	10.772	10.616	10.625	
11.75	60	N-80	3180	5830	924		1440	1384	0.489	10.772	10.616	10.625	
11.75	60	HCN-80	4410	5830	1055		1555	1384	0.489	10.772	10.616	10.625	
11.75	60	S-95	4410	6920	1077		1638	1644	0.489	10.772	10.616	10.625	
11.75	60	HCP-110	4410	8010	1242		1877	1903	0.489	10.772	10.616	10.625	
11.75	60	P-110	3610	8010	1242		1877	1903	0.489	10.772	10.616	10.625	
11.75	60	HCQ-125	4410	9100	1396		2074	2163	0.489	10.772	10.616	10.625	
11.75	60	Q-125	3680	9100	1396		2074	2163	0.489	10.772	10.616	10.625	
11.75	65	L-80	3870	6360	1007		1521	1505	0.534	10.682	10.526	10.625	
11.75	65	HCL-80	5740	6360	1152		1691	1505	0.534	10.682	10.526	10.625	
11.75	65	N-80	3870	6360	1019		1566	1505	0.534	10.682	10.526	10.625	
11.75	65	HCN-80	5740	6360	1164		1691	1505	0.534	10.682	10.526	10.625	
11.75	65	S-95	5740	7560	1189		1781	1788	0.534	10.682	10.526	10.625	
11.75	65	HCP-110	5740	8750	1371		2041	2070	0.534	10.682	10.526	10.625	
13.375	48	H-40	740	1730	322		607	541	0.33	12.715	12.559		

CASING TABLE

CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
13.375	48	WC-40	740	1700*	308			541	0.33	12.715	12.559		
13.375	54.5	J-55	1130	2730	514		909	853	0.38	12.615	12.459		
13.375	54.5	K-55	1130	2730	547		1038	853	0.38	12.615	12.459		
13.375	54.5	HCK-55	1400	2730	689		1194	853	0.38	12.615	12.459		
13.375	54.5	WC-50*	1110	2500*	470			776	0.38	12.615	12.459		
13.375	61	J-55	1540	3090	595		1025	962	0.43	12.515	12.359		
13.375	61	K-55	1540	3090	633		1169	962	0.43	12.515	12.359		
13.375	61	HCK-55	2040	3090	798		1345	962	0.43	12.515	12.359		
13.375	61	WC-50*	1490	2800*	544			874	0.43	12.515	12.359		
13.375	68	J-55	1950	3450	675		1140	1069	0.48	12.415	12.259		
13.375	68	K-55	1950	3450	718		1300	1069	0.48	12.415	12.259		
13.375	68	HCK-55	2850	3450	905		1496	1069	0.48	12.415	12.259		
13.375	68	L-80	2260	5020	952		1545	1556	0.48	12.415	12.259		
13.375	68	HCL-80	2910	5020	1093		1732	1556	0.48	12.415	12.259		
13.375	68	N-80	2260	5020	963		1585	1556	0.48	12.415	12.259		
13.375	68	HCN-80	2910	5020	1103		1732	1556	0.48	12.415	12.259		

CASING TABLE



CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
13.375	68	S-95	2910	5970	1125		1812	1847	0.48	12.415	12.259		
13.375	68	HCP-110	2910	6910	1297		2079	2139	0.48	12.415	12.259		
13.375	68	P-110	2340	6910	1297		2079	2139	0.48	12.415	12.259		
13.375	72	L-80	2670	5380	1029		1650	1661	0.514	12.347	12.191	12.25	
13.375	72	HCL-80	3470	5380	1181		1850	1661	0.514	12.347	12.191	12.25	
13.375	72	N-80	2670	5380	1040		1693	1661	0.514	12.347	12.191	12.25	
13.375	72	HCN-80	3470	5380	1192		1850	1661	0.514	12.347	12.191	12.25	
13.375	72	S-95	3470	6390	1215		1935	1973	0.514	12.347	12.191	12.25	
13.375	72	HCP-110	3470	7400	1402		2221	2284	0.514	12.347	12.191	12.25	
13.375	72	P-110	2890	7400	1402		2221	2284	0.514	12.347	12.191	12.25	
13.375	72	HCQ-125	3470	8410	1577		2463	2596	0.514	12.347	12.191	12.25	
13.375	72	Q-125	2880	8410	1577		2463	2596	0.514	12.347	12.191	12.25	
13.625	88.2	S-95	5930	7630			1885	2425	0.625	12.375		12.25	
13.625	88.2	HCP-110	5930	8830			2163	2808	0.625	12.375		12.25	
13.625	88.2	P-110	4570	8830			2163	2808	0.625	12.375		12.25	
13.625	88.2	HCQ-125	5930	10030			2399	3191	0.625	12.375		12.25	

CASING TABLE

CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
13.625	88.2	Q-125	4800	10030			2399	3191	0.625	12.375		12.25	
16	65	H-40	630	1640	439		781	736	0.375	15.25	15.062		
16	65	WC-40	630	1600*	422			736	0.375	15.25	15.062		1100
16	75	J-55	1020	2630	710		1200	1178	0.438	15.124	14.936		
16	75	K-55	1020	2630	752		1331	1178	0.438	15.124	14.936		
16	84	J-55	1410	2980	817		1351	1326	0.495	15.01	14.822		
16	84	K-55	1410	2980	865		1499	1326	0.495	15.01	14.822		
16	84	N-80	1480	4330	1167		1898	1929	0.495	15.01	14.822		
16	84	HCN-80	1910	4330	1342		1898	1929	0.495	15.01	14.822		
16	84	HCP-110	1910	5960	1575		2518	2652	0.495	15.01	14.822		
18.625	87.5	J-55	630	2250	754		1329	1368	0.435	17.755	17.567		
18.625	87.5	K-55	630	2250	794		1427	1368	0.435	17.755	17.567		
18.625	87.5	N-80	630	3270	1079		1887	1990	0.435	17.755	17.567		
18.625	94.5	H-40	780	1760	609		1067	1068	0.468	17.689	17.501		
18.625	94.5	J-55	780	2420	821		1427	1469	0.468	17.689	17.501		
18.625	94.5	K-55	780	2420	865		1533	1469	0.468	17.689	17.501		

CASING TABLE

CASING TABLE **API** **8rd**

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
18.625	94.5	N-80	780	3520	1174		2027	2137	0.468	17.689	17.501		
18.625	106	H-40	1140	2000	703		1206	1208	0.531	17.563	17.375		
18.625	106	J-55	1140	2740	948		1613	1661	0.531	17.563	17.375		
18.625	106	K-55	1140	2740	998		1733	1661	0.531	17.563	17.375		
18.625	106	N-80	1150	3990	1356		2292	2416	0.531	17.563	17.375		
18.625	117.5	H-40	1500	2230	795		1342	1344	0.593	17.439	17.251		
18.625	117.5	J-55	1510	3060	1072		1795	1849	0.593	17.439	17.251		
18.625	117.5	K-55	1510	3060	1129		1929	1849	0.593	17.439	17.251		
18.625	117.5	N-80	1620	4460	1534		2551	2689	0.593	17.439	17.251		
20	94	H-40	520	1530	581		1041	1077	0.438	19.124	18.936		
20	94	J-55	520	2110	783	907	1402	1480	0.438	19.124	18.936		
20	94	K-55	520	2110	824	955	1479	1480	0.438	19.124	18.936		
20	106.5	J-55	770	2410	913	1056	1595	1685	0.5	19	18.812		
20	106.5	K-55	770	2410	960	1113	1683	1685	0.5	19	18.812		
20	106.5	N-80	770	3500	1307	1514	2281	2450	0.5	19	18.812		
20	133	K-55	1500	3060	1253	1453	2123	2125	0.635	18.73	18.542		

CASING TABLE



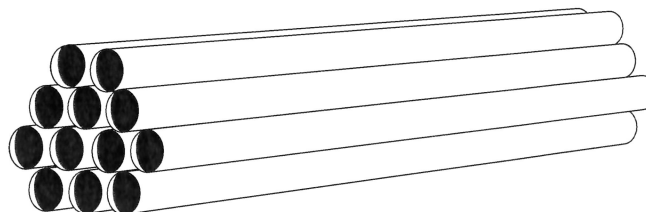
CASING TABLE API 8rd

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O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse (psi)	Internal Minimum Yeild (psi)	Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)		Maximum Setting Depth
				PE	STC	LTC	BTC				API	SP. DR.	STC/ft.
20	133	L-80	1600	4450	1692	1958	2849	3091	0.635	18.73	18.542		
20	133	N-80	1600	4450	1707	1976	2877	3091	0.635	18.73	18.542		
20	169	K-55	2500	3910	1402	1732	2689	2692	0.812	18.376	18.188		
20	169	L-80	3020	5680	2202	2549	3610	3916	0.812	18.376	18.188		
20	169	N-80	3020	5680	2221	2573	3645	3916	0.812	18.376	18.188		

Carbon Steel Pipe

We stock a complete line of carbon steel pipe in the ASTM specifications A-53-F, A-53-E and A-106. Standard lengths are 21 ft. We will also cut to order and can thread up to 4". Pipe will be shipped plain end unless specified differently on the order.



Specifications

The description for each specification and the sizes available for each specification are given below

ASTM A-53-F This general service pipe is manufactured by the Continuous Weld (CW) process. Available in Standard Weight (Sch 40) and Extra Heavy Weight (Sch 80) in sizes 1/8" through 4".

ASTM A-53-E This general service pipe is manufactured by the Electric Resistance Weld (ERW) process. Available in Standard Weight (Sch 40) in sizes 2" through 8".

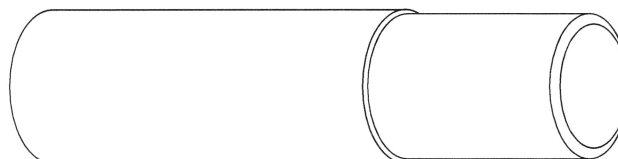
ASTM A-106 This carbon steel pipe is manufactured in seamless only. Available in Standard Weight (Sch 40) in sizes 1/8" through 12" and in Extra Heavy Weight (Sch 80) in sizes 1/8" through 8".

Carbon Steel Pipe		Schedule 40		Schedule 80	
Nominal Pipe Size	OD Inches	ID Inches	Weight per Foot	ID Inches	Weight per Foot
1/8"	.405	.269	.24	.215	.31
1/4"	.540	.364	.42	.302	.54
3/8"	.675	.493	.57	.423	.74
1/2"	.840	.622	.85	.546	1.09
3/4"	1.05	.824	1.13	.742	1.47
1"	1.315	1.049	1.68	.957	2.17
1-1/4"	1.660	1.380	2.27	1.278	3.00
1-1/2"	1.900	1.610	2.72	1.500	3.63
2"	2.375	2.067	3.65	1.939	5.02
2-1/2"	2.875	2.469	5.79	2.323	7.66
3"	3.500	3.068	7.58	2.90	10.25
4"	4.500	4.026	10.79	3.826	14.98
5"	5.563	5.047	14.62	4.813	20.78
6"	6.625	6.065	18.97	5.761	28.57
8"	8.625	8.071	24.70	7.625	43.39

Fusion Bond Coated Pipe

Fusion Bond Epoxy (FBE) provides corrosion protection of pipelines and pipe pilings in service in the harshest environments. This field-proven coating protects against soil stress, bacteria and fungus attack, soil acid, alkalis and all other corrosive elements associated with below ground or underwater use. FBE is also resistant to cathodic disbondment in long term performance under a wide range of in-service conditions and ambient temperatures.

Fusion Bond Epoxy has tough physical properties that minimize damage during transit, installation and operation. This coating also demonstrates superior chemical resistance in long term service in a variety of soil conditions. FBE protective coatings provide an excellent base for ARO systems and joint coatings.



Fusion Bond Coating

Steel Pipe

APPENDIX B
PRESSURE TESTING RECORDS - 2015

Facility Pressure Test Report

Instructions:

Step 3. - Pressure test all produced water lines from separators to water tanks/pits (where possible)

Area / Route:

Facility Name :

STEP 1: Pressure Test Flowlines

[illegible]

STEP 2: Pressure Test Crude Oil Production Lines

Beginning Pressure	85
Ending Pressure	81
Start Time	16:20
End Time	6:35
Duration	15mins

STEP 3: Pressure Test Produced Water Lines (if possible)

Beginning Pressure	common
Ending Pressure	common
Start Time	8:07
End Time	8:37 AM
Duration	30 min

Caerus Representative (Print): _____ Daniel Treto

Caerus Representative (Sign): _____