

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
4 1/2	9.5	J-55	3310	4380	4380			101			152	0.205	4.09	3.965	0.00342	0.01625
4 1/2	9.5	K-55	3310	4380	4380			112			152	0.205	4.09	3.965	0.00342	0.01625
4 1/2	9.5	LS-65	3600	5180	5180			135			180	0.205	4.09	3.965	0.00342	0.01625
4 1/2	10.5	J-55	4010	4790	4790		4790	132		203	166	0.224	4.052	3.927	0.00372	0.01595
4 1/2	10.5	K-55	4010	4790	4790		4790	146		249	166	0.224	4.052	3.927	0.00372	0.01595
4 1/2	10.5	LS-65	4420	5660	5660		5660	154		231	195	0.224	4	3.927	0.00413	0.01554
4 1/2	11.6	J-55	4960	5350	5350	5350	5350	154	162	225	184	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	K-55	4960	5350	5350	5350	5350	170	180	277	184	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	LS-65	5560	6320	6320	6320	6320	179	188	256	217	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	L-80	6350	7780		7780	7780		212	291	267	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	HCL-80	8650	7780		7780	7780		223	312	267	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	N-80	6350	7780		7780	7780		223	304	267	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	HCN-80	8650	7780		7780	7780		223	312	267	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	C-90	6810	8750		8750	8750		223	309	300	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	S-95	8650	9240		9240	9240		245	338	317	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	T-95	7030	9240		9240	9240		234	325	317	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	C-95	7030	9240		9240	9240		234	325	317	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	HCP-110	8650	10690		10690	10690		279	385	367	0.25	4	3.875	0.00413	0.01554
4 1/2	11.6	P-110	7580	10690		10690	10690		279	385	367	0.25	4	3.875	0.00413	0.01554
4 1/2	13.5	LS-65	7300	7330		7330	7330		228	295	249	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	L-80	8540	9020		9020	9020		257	334	307	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	HCL-80	10380	9020		9020	9020		270	359	307	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	N-80	8540	9020		9020	9020		270	349	307	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	HCN-80	10380	9020		9020	9020		270	359	307	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	C-90	9300	10150		10150	10150		270	355	345	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	S-95	10380	10710		10710	10710		297	388	364	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	T-95	9660	10710		10710	10710		284	374	364	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	C-95	9660	10710		10710	10710		284	374	364	0.29	3.92	3.795	0.00474	0.01493
4 1/2	13.5	P-110	10680	12410		12410	12410		338	443	422	0.29	3.92	3.795	0.00474	0.01493
4 1/2	15.1	L-80	11090	10480		10480	10480		308	384	353	0.337	3.826	3.701	0.00545	0.01422
4 1/2	15.1	HCL-80	12330	10480		10480	9790		325	408	353	0.337	3.826	3.701	0.00545	0.01422
4 1/2	15.1	S-95	12330	12450		12450	11630		357	446	419	0.337	3.826	3.701	0.00545	0.01422
4 1/2	15.1	P-110	14350	14420		14420	13460		406	509	485	0.337	3.826	3.701	0.00545	0.01422
4 1/2	15.1	Q-125	15840	16380		16380	15300		438	554	551	0.337	3.826	3.701	0.00545	0.01422
4 1/2	15.1	LS-140	17240	18350		18350	17140		487	616	617	0.337	3.826	3.701	0.00545	0.01422
4 1/2	15.1	V-150	18110	19660		19660	18360		519	658	661	0.337	3.826	3.701	0.00545	0.01422
5	11.5	J-55	3060	4240	4240			133			182	0.22	4.56	4.435	0.00409	0.02020
5	11.5	K-55	3060	4240	4240			147			182	0.22	4.56	4.435	0.00409	0.02020
5	11.5	LS-65	3290	5010	5010			162			215	0.22	4.56	4.435	0.00409	0.02020
5	13	J-55	4140	4870	4870	4870	4870	169	182	252	208	0.253	4.494	4.369	0.00467	0.01962

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				PE	STC	LTC	BTC	STC	LTC	BTC						
5	13	K-55	4140	4870	4870	4870	4870	186	201	309	208	0.253	4.494	4.369	0.00467	0.01962
5	13	LS-65	4590	5760	5760	5760	5760	196	212	288	245	0.253	4.494	4.369	0.00467	0.01962
5	15	J-55	5560	5700	5700	5700	5700	207	223	293	241	0.296	4.408	4.283	0.00541	0.01888
5	15	K-55	5560	5700	5700	5700	5700	228	246	359	241	0.296	4.408	4.283	0.00541	0.01888
5	15	LS-65	6280	6730	6730	6730	6730	240	259	334	284	0.296	4.408	4.283	0.00541	0.01888
5	15	L-80	7250	8290		8290	8290		295	379	350	0.296	4.408	4.283	0.00541	0.01888
5	15	HCL-80	9380	8290		8290	8290		311	408	350	0.296	4.408	4.283	0.00541	0.01888
5	15	N-80	7250	8290		8290	8290		311	396	350	0.296	4.408	4.283	0.00541	0.01888
5	15	HCN-80	9380	8290		8290	8290		311	408	350	0.296	4.408	4.283	0.00541	0.01888
5	15	C-90	7840	9320		9320	9320		311	404	394	0.296	4.408	4.283	0.00541	0.01888
5	15	S-95	9380	9840		9840	9840		342	441	416	0.296	4.408	4.283	0.00541	0.01888
5	15	T-95	8110	9840		9840	9840		326	424	416	0.296	4.408	4.283	0.00541	0.01888
5	15	C-95	8110	9840		9840	9840		326	424	416	0.296	4.408	4.283	0.00541	0.01888
5	15	P-110	8850	11400		11400	11400		388	503	481	0.296	4.408	4.283	0.00541	0.01888
5	15	V-150	10250	15540		15540	15540		497	651	656	0.296	4.408	4.283	0.00541	0.01888
5	18	LS-65	8730	8240		8240	8240		331	403	343	0.362	4.276	4.151	0.00652	0.01776
5	18	L-80	10500	10140		10140	9910		377	457	422	0.362	4.276	4.151	0.00652	0.01776
5	18	HCL-80	11880	10140		10140	9910		396	492	422	0.362	4.276	4.151	0.00652	0.01776
5	18	N-80	10500	10140		10140	9910		396	477	422	0.362	4.276	4.151	0.00652	0.01776
5	18	HCN-80	11880	10140		10140	9910		396	492	422	0.362	4.276	4.151	0.00652	0.01776
5	18	C-90	11530	11400		11400	11150		396	484	475	0.362	4.276	4.151	0.00652	0.01776
5	18	T-95	12030	12040		12040	11770		416	512	501	0.362	4.276	4.151	0.00652	0.01776
5	18	C-95	12030	12040		12040	11770		416	512	501	0.362	4.276	4.151	0.00652	0.01776
5	18	P-110	13470	13940		13940	13620		495	606	580	0.362	4.276	4.151	0.00652	0.01776
5	18	Q-125	14830	15840		15840	15480		535	661	659	0.362	4.276	4.151	0.00652	0.01776
5	18	LS-140	16080	17740		17740	17340		594	735	738	0.362	4.276	4.151	0.00652	0.01776
5	18	V-150	16860	19010		19010	18580		634	785	791	0.362	4.276	4.151	0.00652	0.01776
5	21.4	L-80	12760	12240		10810	9910		466	510	501	0.437	4.126	4.001	0.00775	0.01654
5	21.4	N-80	12760	12240		10810	9910		490	537	501	0.437	4.126	4.001	0.00775	0.01654
5	21.4	C-90	14360	13770		12170	11150		490	537	564	0.437	4.126	4.001	0.00775	0.01654
5	21.4	T-95	15160	14530		12840	11770		515	563	595	0.437	4.126	4.001	0.00775	0.01654
5	21.4	C-95	15160	14530		12840	11770		515	563	595	0.437	4.126	4.001	0.00775	0.01654
5	21.4	P-110	17550	16820		14870	13620		613	671	689	0.437	4.126	4.001	0.00775	0.01654
5	21.4	Q-125	19940	19120		16900	15480		662	724	783	0.437	4.126	4.001	0.00775	0.01654
5	23.2	L-80	13830	13380		10810	9910		513	510	543	0.478	4.044	3.919	0.00840	0.01589
5	23.2	HCL-80	15820	13380		10810	9910		540	516	543	0.478	4.044	3.919	0.00840	0.01589
5	23.2	N-80	13830	13380		10810	9910		540	537	543	0.478	4.044	3.919	0.00840	0.01589
5	23.2	HCN-80	15820	13380		10810	9910		540	537	543	0.478	4.044	3.919	0.00840	0.01589
5	23.2	C-90	15560	15060		12170	11150		540	537	611	0.478	4.044	3.919	0.00840	0.01589
5	23.2	S-95	16430	15890		12840	11770		594	590	645	0.478	4.044	3.919	0.00840	0.01589

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				PE	STC	LTC	BTC	STC	LTC	BTC						
5	23.2	T-95	16430	15890		12840	11770		567	563	645	0.478	4.044	3.919	0.00840	0.01589
5	23.2	C-95	16430	15890		12840	11770		567	563	645	0.478	4.044	3.919	0.00840	0.01589
5	23.2	P-110	19020	18400		14780	13626		675	671	747	0.478	4.044	3.919	0.00840	0.01589
5	23.2	Q-125	21620	20910		16900	15480		729	724	849	0.478	4.044	3.919	0.00840	0.01589
5	24.1	L-80	14400	14000		10810	9910		538	510	566	0.5	4	3.875	0.00874	0.01554
5	24.1	N-80	14400	14000		10810	9910		558	537	566	0.5	4	3.875	0.00874	0.01554
5	24.1	C-90	16200	15750		12170	11150		567	537	636	0.5	4	3.875	0.00874	0.01554
5	24.1	T-95	17100	16630		12840	11770		595	563	672	0.5	4	3.875	0.00874	0.01554
5	24.1	C-95	17100	16630		12840	11770		595	563	672	0.5	4	3.875	0.00874	0.01554
5	24.1	P-110	19800	19250		14870	13620		708	671	778	0.5	4	3.875	0.00874	0.01554
5	24.1	Q-125	22500	21880		16900	15480		765	724	884	0.5	4	3.875	0.00874	0.01554
5	24.1	V-150	27000	26250		20280	18580		907	858	1060	0.5	4	3.875	0.00874	0.01554
5 1/2	15.5	J-55	4040	4810	4810	4810	4810	202	217	300	248	0.275	4.95	4.825	0.00558	0.02380
5 1/2	15.5	K-55	4040	4810	4800	4810	4810	222	239	366	248	0.275	4.95	4.825	0.00558	0.02380
5 1/2	15.5	LS-65	4470	5690	5690	5690	5690	235	253	342	293	0.275	4.95	4.825	0.00558	0.02380
5 1/2	17	J-55	4910	5320	5320	5320	5320	229	247	329	273	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	K-55	4910	5320	5320	5320	5320	252	272	402	273	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	LS-65	5510	6290	6290	6290	6290	267	287	376	323	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	L-80	6390	7740		7740	7740		338	428	397	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	HCL-80	8580	7740		7740	7740		356	462	397	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	N-80	6390	7740		7740	7740		348	446	397	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	HCN-80	8580	7740		7740	7740		356	462	397	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	C-90	6740	8710		8710	8710		356	456	447	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	S-95	8580	9190		9190	9190		392	498	471	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	T-95	6940	9190		9190	9190		374	480	471	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	C-95	6940	9190		9190	9190		374	480	471	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	HCP-110	8580	10640		10640	10640		445	568	546	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	P-110	7480	10640		10640	10640		445	568	546	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	HCQ-125	8580	12090		12090	12090		481	620	620	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	Q-125	7890	12090		12090	12090		481	620	620	0.304	4.892	4.767	0.00614	0.02325
5 1/2	17	LS-140	8580	13540		13540	13540		534	690	695	0.304	4.892	4.767	0.00614	0.02325
5 1/2	20	LS-65	7540	7470		7470	7470		353	442	379	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	L-80	8830	9190		9190	8990		416	503	466	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	HCL-80	10630	9190		9190	8990		438	542	466	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	N-80	8830	9190		9190	8990		428	524	466	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	HCN-80	10630	9190		9190	8990		438	542	466	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	C-90	9630	10340		10340	10120		438	436	525	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	S-95	10630	10910		10910	10680		482	585	554	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	T-95	10010	10910		10910	10680		460	563	554	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	C-95	10010	10910		10910	10680		460	563	554	0.361	4.778	4.653	0.00721	0.02218

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				PE	STC	LTC	BTC	STC	LTC	BTC						
5 1/2	20	P-110	11100	12630		12630	12360		548	667	641	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	Q-125	12080	14360		14360	14050		592	728	729	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	LS-140	12950	16080		16080	15740		657	810	816	0.361	4.778	4.653	0.00721	0.02218
5 1/2	20	V-150	13460	17230		17230	16860		701	865	874	0.361	4.778	4.653	0.00721	0.02218
5 1/2	23	L-80	11160	10560		9880	8990		489	550	530	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	N-80	11160	10560		9880	8990		502	579	530	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	HCN-80	12450	10560		9880	8990		514	579	530	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	C-90	12380	11880		11110	10120		514	579	597	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	S-95	12940	12540		11730	10680		566	637	630	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	T-95	12940	12540		11730	10680		540	608	630	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	C-95	12940	12540		11730	10680		540	608	630	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	P-110	14540	14530		13580	12360		643	724	729	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	Q-125	16070	16510		15430	14050		694	782	829	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	LS-140	17500	18490		17290	15740		771	869	928	0.415	4.67	4.545	0.00820	0.02119
5 1/2	23	V-150	18390	19810		18520	16860		823	927	995	0.415	4.67	4.545	0.00820	0.02119
5 1/2	26	C-90	14240	13630		11110	10120		598	579	676	0.476	4.548	4.423	0.00929	0.02009
5 1/2	26	T-95	15030	14390		11730	10680		628	608	714	0.476	4.548	4.423	0.00929	0.02009
5 1/2	26	C-95	15030	14390		11730	10680		628	608	714	0.476	4.548	4.423	0.00929	0.02009
5 1/2	26	P-110	17400	16660		13580	12360		748	724	826	0.476	4.548	4.423	0.00929	0.02009
5 1/2	26	Q-125	19770	18930		15430	14050		808	782	939	0.476	4.548	4.423	0.00929	0.02009
5 1/2	26	V-150	23720	22720		18520	16860		957	927	1127	0.476	4.548	4.423	0.00929	0.02009
5 1/2	26.8	C-90	14880	14320							707	0.5	4.5	4.375	0.00971	0.01967
5 1/2	26.8	T-95	15700	15110							746	0.5	4.5	4.375	0.00971	0.01967
5 1/2	29.7	C-90	16510	16090							785	0.562	4.376	4.251	0.01078	0.01860
5 1/2	29.7	T-95	17430	16990							828	0.562	4.376	4.251	0.01078	0.01860
5 1/2	32.6	C-90	18130	17900							861	0.625	4.25	4.125	0.01184	0.01755
5 1/2	32.6	T-95	19140	18810							909	0.625	4.25	4.125	0.01184	0.01755
5 1/2	35.3	C-90	19680	19670							935	0.687	4.126	4.001	0.01285	0.01654
5 1/2	35.3	T-95	20760	20770							987	0.687	4.126	4.001	0.01285	0.01654
5 1/2	38	C-90	21200	21480							1007	0.75	4	3.875	0.01384	0.01554
5 1/2	38	T-95	22380	22670							1063	0.75	4	3.875	0.01384	0.01554
5 1/2	40.5	C-90	22650	23250							1076	0.812	3.876	3.751	0.01479	0.01459
5 1/2	40.5	T-95	23920	24540							1136	0.812	3.876	3.751	0.01479	0.01459
5 1/2	43.1	C-90	24080	25060							1144	0.875	3.75	3.625	0.01573	0.01366
5 1/2	43.1	T-95	25400	26450							1208	0.875	3.75	3.625	0.01573	0.01366
5 5/8	26.7	L-80	12420	11870		9880	8990		488	550	617	0.477	4.671		0.00954	0.02120
5 5/8	26.7	HCL-80	14750	11870		9880	8990		501	550	617	0.477	4.671		0.00954	0.02120
5 5/8	26.7	H2S-90	14750	13360		11110	10120		514	579	694	0.477	4.671		0.00954	0.02120
5 5/8	26.7	H2S-90	14750	14100		11730	10680		539	608	733	0.477	4.671		0.00954	0.02120
5 5/8	26.7	P-110	17080	16320		13580	12360		642	724	849	0.477	4.671		0.00954	0.02120

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
5 3/4	16.5	J-55	3720	4620			4620			314	234	0.276	5.198		0.00587	0.02625
5 3/4	18.1	J-55	4520	5090			5090			344	286	0.304	5.142		0.00643	0.02569
5 3/4	18.1	L-80	5700	7400			7400			447	416	0.304	5.142		0.00643	0.02569
5 3/4	18.1	N-80	5700	7400			7400			466	416	0.304	5.142		0.00643	0.02569
5 3/4	18.1	C-95	6380	8790			8790			502	494	0.304	5.142		0.00643	0.02569
5 3/4	18.1	P-110	6640	10180			10180			594	572	0.304	5.142		0.00643	0.02569
5 3/4	19.7	J-55	5410	5610			5610			377	313	0.335	5.08		0.00705	0.02507
5 3/4	19.7	L-80	7030	8160			8160			490	456	0.335	5.08		0.00705	0.02507
5 3/4	19.7	N-80	7030	8160			8160			511	456	0.335	5.08		0.00705	0.02507
5 3/4	19.7	C-95	7980	9690			9690			550	541	0.335	5.08		0.00705	0.02507
5 3/4	19.7	P-110	8530	11220			11220			651	627	0.335	5.08		0.00705	0.02507
5 3/4	21.8	L-80	8740	9130			9130			545	507	0.375	5		0.00783	0.02429
5 3/4	21.8	N-80	8740	9130			9130			568	507	0.375	5		0.00783	0.02429
5 3/4	21.8	C-95	10050	10840			10840			611	602	0.375	5		0.00783	0.02429
5 3/4	21.8	P-110	10960	12550			12550			723	697	0.375	5		0.00783	0.02429
5 3/4	24.2	L-80	10650	10230			10230			605	563	0.42	4.91		0.00870	0.02342
5 3/4	24.2	N-80	10650	10230			10230			630	563	0.42	4.91		0.00870	0.02342
5 3/4	24.2	C-95	12370	12140			12140			679	668	0.42	4.91		0.00870	0.02342
5 3/4	24.2	P-110	13700	14060			14060			803	774	0.42	4.91		0.00870	0.02342
6 5/8	20	H-40	2520	3040	3040			184			229	0.288	6.049	5.924	0.00709	0.03555
6 5/8	20	J-55	2970	4180	4180	4180	4180	245	266	374	315	0.288	6.049	5.924	0.00709	0.03555
6 5/8	20	K-55	2970	4180	4180	4180	4180	267	290	453	315	0.288	6.049	5.924	0.00709	0.03555
6 5/8	20	LS-65	3190	4940	4940	4940	4940	285	309	428	373	0.288	6.049	5.924	0.00709	0.03555
6 5/8	24	J-55	4560	5110	5110	5110	5110	314	340	453	382	0.352	5.921	5.796	0.00858	0.03406
6 5/8	24	K-55	4560	5110	5110	5110	5110	342	372	548	382	0.352	5.921	5.796	0.00858	0.03406
6 5/8	24	LS-65	5080	6040	6040	6040	6040	366	397	518	451	0.352	5.921	5.796	0.00858	0.03406
6 5/8	24	L-80	5760	7440		7440	7440		473	592	555	0.352	5.921	5.796	0.00858	0.03406
6 5/8	24	C-90	6140	8370		8370	8370		520	633	624	0.352	5.921	5.796	0.00858	0.03406
6 5/8	24	C-95	6310	8830		8830	8830		546	665	659	0.352	5.921	5.796	0.00858	0.03406
6 5/8	24	P-110	6730	10230		10230	10230		641	786	763	0.352	5.921	5.796	0.00858	0.03406
6 5/8	28	LS-65	7010	7160		7160	7160		483	607	529	0.417	5.791	5.666	0.01006	0.03258
6 5/8	28	L-80	8170	8810		8810	8810		576	693	651	0.417	5.791	5.666	0.01006	0.03258
6 5/8	28	N-80	8170	8810		8810	8810		586	721	651	0.417	5.791	5.666	0.01006	0.03258
6 5/8	28	C-90	8880	9910		9910	9910		633	742	732	0.417	5.791	5.666	0.01006	0.03258
6 5/8	28	C-95	9220	10460		10460	10460		665	780	773	0.417	5.791	5.666	0.01006	0.03258
6 5/8	28	P-110	10160	12120		12120	12120		781	922	895	0.417	5.791	5.666	0.01006	0.03258
6 5/8	32	L-80	10320	10040		10040	9820		666	783	734	0.475	5.675	5.55	0.01135	0.03129
6 5/8	32	N-80	10320	10040		10040	9820		677	814	734	0.475	5.675	5.55	0.01135	0.03129
6 5/8	32	C-90	11330	11290		11290	11050		732	837	826	0.475	5.675	5.55	0.01135	0.03129
6 5/8	32	C-95	11810	11920		11920	11660		769	880	872	0.475	5.675	5.55	0.01135	0.03129

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
6 5/8	32	P-110	13220	13800		13800	13500		904	1040	1009	0.475	5.675	5.55	0.01135	0.03129
6 5/8	32	Q-125	14530	15680		15680	15340		989	1138	1147	0.475	5.675	5.55	0.01135	0.03129
7	20	H-40	1970	2720	2720			176			230	0.272	6.456	6.331	0.00711	0.04049
7	20	J-55	2270	3740	3740	3740	3740	234	257	373	316	0.272	6.456	6.331	0.00711	0.04049
7	20	K-55	2270	3740	3740	3740	3740	254	281	451	316	0.272	6.456	6.331	0.00711	0.04049
7	20	LS-65	2480	4420	4420	4420	4420	272	300	427	374	0.272	6.456	6.331	0.00711	0.04049
7	23	J-55	3270	4360	4360	4360	4360	284	313	432	366	0.317	6.366	6.241	0.00823	0.03937
7	23	K-55	3270	4360	4360	4360	4360	309	341	522	366	0.317	6.366	6.241	0.00823	0.03937
7	23	LS-65	3540	5150	5150	5150	5150	331	364	494	433	0.317	6.366	6.241	0.00823	0.03937
7	23	L-80	3830	6340		6340	6340		435	565	532	0.317	6.366	6.241	0.00823	0.03937
7	23	HCL-80	5650	6340		6340	6340		485	614	532	0.317	6.366	6.241	0.00823	0.03937
7	23	N-80	3830	6340		6340	6340		442	588	532	0.317	6.366	6.241	0.00823	0.03937
7	23	HCN-80	5650	6340		6340	6340		485	614	532	0.317	6.366	6.241	0.00823	0.03937
7	23	C-90	4030	7130		7130	7130		479	605	599	0.317	6.366	6.241	0.00823	0.03937
7	23	H2S-90	5650	7130		7130	7130		485	614	599	0.317	6.366	6.241	0.00823	0.03937
7	23	S-95	5650	7530		7530	7530		512	659	632	0.317	6.366	6.241	0.00823	0.03937
7	23	T-95	4140	7530		7530	7530		505	636	632	0.317	6.366	6.241	0.00823	0.03937
7	23	H2S-95	5650	7530		7530	7530		505	636	632	0.317	6.366	6.241	0.00823	0.03937
7	23	C-95	4140	7530		7530	7530		505	636	632	0.317	6.366	6.241	0.00823	0.03937
7	26	J-55	4320	4980	4980	4980	4980	334	367	490	415	0.362	6.276	6.151	0.00934	0.03826
7	26	K-55	4320	4980	4980	4980	4980	364	401	592	415	0.362	6.276	6.151	0.00934	0.03826
7	26	LS-65	4800	5880	5880	5880	5880	389	428	561	491	0.362	6.276	6.151	0.00934	0.03826
7	26	L-80	5410	7240		7240	7240		511	641	604	0.362	6.276	6.151	0.00934	0.03826
7	26	HCL-80	7800	7240		7240	7240		570	696	604	0.362	6.276	6.151	0.00934	0.03826
7	26	N-80	5410	7240		7240	7240		519	667	604	0.362	6.276	6.151	0.00934	0.03826
7	26	HCN-80	7800	7240		7240	7240		570	696	604	0.362	6.276	6.151	0.00934	0.03826
7	26	C-90	5740	8140		8140	8140		563	687	679	0.362	6.276	6.151	0.00934	0.03826
7	26	H2S-90	7800	8150		8150	8150		570	696	679	0.362	6.276	6.151	0.00934	0.03826
7	26	S-95	7800	8600		8600	8600		602	747	717	0.362	6.276	6.151	0.00934	0.03826
7	26	T-95	5880	8600		8600	8600		593	722	717	0.362	6.276	6.151	0.00934	0.03826
7	26	H2S-95	7800	8600		8600	8600		593	722	717	0.362	6.276	6.151	0.00934	0.03826
7	26	C-95	5880	8600		8600	8600		593	722	717	0.362	6.276	6.151	0.00934	0.03826
7	26	HCP-110	7800	9950		9950	9950		693	853	830	0.362	6.276	6.151	0.00934	0.03826
7	26	P-110	6230	9950		9950	9950		639	853	830	0.362	6.276	6.151	0.00934	0.03826
7	29	LS-65	6090	6630		6630	6630		492	628	549	0.408	6.184	6.059	0.01045	0.03715
7	29	L-80	7020	8160		8160	8160		587	718	676	0.408	6.184	6.059	0.01045	0.03715
7	29	HCL-80	9200	8160		8160	8160		655	780	676	0.408	6.184	6.059	0.01045	0.03715
7	29	N-80	7020	8160		8160	8160		597	746	676	0.408	6.184	6.059	0.01045	0.03715
7	29	HCN-80	9200	8160		8160	8160		655	780	676	0.408	6.184	6.059	0.01045	0.03715
7	29	C-90	7580	9180		9180	9180		648	768	760	0.408	6.184	6.059	0.01045	0.03715

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
7	29	H2S-90	9200	9180		9180	9180		655	780	760	0.408	6.184	6.059	0.01045	0.03715
7	29	S-95	9200	9690		9690	9690		692	836	803	0.408	6.184	6.059	0.01045	0.03715
7	29	T-95	7830	9690		9690	9690		683	808	803	0.408	6.184	6.059	0.01045	0.03715
7	29	H2S-95	9200	9690		9690	9690		683	8080	803	0.408	6.184	6.059	0.01045	0.03715
7	29	C-95	7830	9690		9690	9690		683	808	803	0.408	6.184	6.059	0.01045	0.03715
7	29	HCP-110	9200	11220		11220	11220		797	955	929	0.408	6.184	6.059	0.01045	0.03715
7	29	P-110	8530	11220		11220	11220		797	955	929	0.408	6.184	6.059	0.01045	0.03715
7	29	HCQ-125	9200	12750		12750	12750		885	1045	1056	0.408	6.184	6.059	0.01045	0.03715
7	29	Q-125	9100	12750		12750	12750		885	1045	1056	0.408	6.184	6.059	0.01045	0.03715
7	29	V-150	9790	15300		15300	15300		1049	1243	1267	0.408	6.184	6.059	0.01045	0.03715
7	32	L-80	8610	9060		9060	8460		661	791	745	0.453	6.094	5.969	0.01152	0.03608
7	32	N-80	8610	9060		9060	8460		672	823	745	0.453	6.094	5.969	0.01152	0.03608
7	32	HCN-80	10400	9060		9060	8460		738	860	745	0.453	6.094	5.969	0.01152	0.03608
7	32	C-90	9380	10190		10190	9520		729	847	839	0.453	6.094	5.969	0.01152	0.03608
7	32	H2S-90	10400	10190		10190	9520		738	860	839	0.453	6.094	5.969	0.01152	0.03608
7	32	S-95	10400	10760		10760	10050		779	922	885	0.453	6.094	5.969	0.01152	0.03608
7	32	T-95	9750	10760		10760	10050		768	891	885	0.453	6.094	5.969	0.01152	0.03608
7	32	H2S-95	10400	10760		10760	10050		768	891	885	0.453	6.094	5.969	0.01152	0.03608
7	32	C-95	9750	10760		10760	10050		768	891	885	0.453	6.094	5.969	0.01152	0.03608
7	32	P-110	10780	12460		12460	11640		897	1053	1025	0.453	6.094	5.969	0.01152	0.03608
7	32	Q-125	11720	14160		14160	13220		996	1152	1165	0.453	6.094	5.969	0.01152	0.03608
7	32	LS-140	12540	15850		15850	14810		1107	1283	1304	0.453	6.094	5.969	0.01152	0.03608
7	32	V-150	13020	16990		16990	15870		1180	1370	1398	0.453	6.094	5.969	0.01152	0.03608
7	35	L-80	10180	9960		9240	8460		734	833	814	0.498	6.004	5.879	0.01258	0.03502
7	35	HCL-80	11600	9960		9240	8460		819	832	814	0.498	6.004	5.879	0.01258	0.03502
7	35	N-80	10180	9960		9240	8460		746	876	814	0.498	6.004	5.879	0.01258	0.03502
7	35	HCN-80	11600	9960		9240	8460		819	876	814	0.498	6.004	5.879	0.01258	0.03502
7	35	C-90	11170	11210		10390	9520		809	876	915	0.498	6.004	5.879	0.01258	0.03502
7	35	H2S-90	11600	11210		10390	9520		819	876	915	0.498	6.004	5.879	0.01258	0.03502
7	35	S-95	11650	11830		10970	10050		865	964	966	0.498	6.004	5.879	0.01258	0.03502
7	35	T-95	11650	11830		10970	10050		853	920	966	0.498	6.004	5.879	0.01258	0.03502
7	35	H2S-95	11650	11830		10970	10050		853	920	966	0.498	6.004	5.879	0.01258	0.03502
7	35	C-95	11650	11830		10970	10050		853	920	966	0.498	6.004	5.879	0.01258	0.03502
7	35	P-110	13020	13700		12700	11640		996	1096	1119	0.498	6.004	5.879	0.01258	0.03502
7	35	Q-125	14310	15560		14430	13220		1106	1183	1272	0.498	6.004	5.879	0.01258	0.03502
7	35	LS-140	15490	17430		16170	14810		1229	1315	1424	0.498	6.004	5.879	0.01258	0.03502
7	35	V-150	16220	18680		17320	15870		1311	1402	1526	0.498	6.004	5.879	0.01258	0.03502
7	38	L-80	11390	10800		9240	8460		801	832	877	0.54	5.92	5.795	0.01356	0.03405
7	38	HCL-80	12700	10800		9240	8460		831	832	877	0.54	5.92	5.795	0.01356	0.03405
7	38	N-80	11390	10800		9240	8460		814	876	877	0.54	5.92	5.795	0.01356	0.03405

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
7	38	HCN-80	12700	10800		9240	8460		831	876	877	0.54	5.92	5.795	0.01356	0.03405
7	38	C-90	12820	12150		10390	9520		883	876	986	0.54	5.92	5.795	0.01356	0.03405
7	38	H2S-90	12820	12150		10390	9520		883	876	986	0.54	5.92	5.795	0.01356	0.03405
7	38	S-95	13440	12830		10970	10050		944	964	1041	0.54	5.92	5.795	0.01356	0.03405
7	38	T-95	13440	12830		10970	10050		931	920	1041	0.54	5.92	5.795	0.01356	0.03405
7	38	H2S-95	13440	12830		10970	10050		931	920	1041	0.54	5.92	5.795	0.01356	0.03405
7	38	C-95	13440	12830		10970	10050		931	920	1041	0.54	5.92	5.795	0.01356	0.03405
7	38	P-110	15140	14850		12700	11640		1087	1096	1205	0.54	5.92	5.795	0.01356	0.03405
7	38	Q-125	16750	16880		14430	13220		1207	1183	1370	0.54	5.92	5.795	0.01356	0.03405
7	38	LS-140	18280	18900		16170	14810		1341	1315	1534	0.54	5.92	5.795	0.01356	0.03405
7	38	V-150	19240	20250		17320	15870		1430	1402	1644	0.54	5.92	5.795	0.01356	0.03405
7	41	C-90	13900	13280		10390	9520		903	876	1069	0.59	5.82	5.695	0.01470	0.03290
7	41	H2S-90	13900	13280		10390	9520		903	876	1069	0.59	5.82	5.695	0.01470	0.03290
7	41	T-95	14670	14010		10970	10050		952	920	1129	0.59	5.82	5.695	0.01470	0.03290
7	41	H2S-95	14670	14010		10970	10050		950	920	1129	0.59	5.82	5.695	0.01470	0.03290
7	41	P-110	16990	16230		12700	11640		1111	1096	1307	0.59	5.82	5.695	0.01470	0.03290
7	41	Q-125	19300	18440		14430	13220		1244	1183	1485	0.59	5.82	5.695	0.01470	0.03290
7	41	V-150	22820	22130		17320	15870		1488	1402	1782	0.59	5.82	5.695	0.01470	0.03290
7	42.7	C-90	14640	14060							1127	0.625	5.75	5.625	0.01548	0.03212
7	42.7	T-95	15450	14840							1189	0.625	5.75	5.625	0.01548	0.03212
7	46.4	C-90	15930	15460							1226	0.687	5.626	5.5	0.01685	0.03075
7	46.4	T-95	16820	16320							1294	0.687	5.626	5.5	0.01685	0.03075
7	50.1	C-90	17220	16880							1325	0.75	5.5	5.375	0.01821	0.02939
7	50.1	T-95	18810	17810							1399	0.75	5.5	5.375	0.01821	0.02939
7	53.6	C-90	18460	18270							1421	0.812	5.376	5.251	0.01952	0.02808
7	53.6	T-95	19480	19290							1500	0.812	5.376	5.251	0.01952	0.02808
7	57.1	C-90	19690	19690							1515	0.875	5.25	5.125	0.02083	0.02678
7	57.1	T-95	20780	20780							1600	0.875	5.25	5.125	0.02083	0.02678
7 5/8	24	H-40	2030	2750	2750			212			276	0.3	7.025	6.9	0.00854	0.04794
7 5/8	26.4	J-55	2890	4140	4140	4140	4140	315	346	483	414	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	K-55	2890	4140	4140	4140	4140	342	377	581	414	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	LS-65	3100	4890	4890	4890	4890	368	403	554	489	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	L-80	3400	6020		6020	6020		482	635	602	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	HCL-80	4850	6020		6020	6020		533	691	602	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	N-80	3400	6020		6020	6020		490	659	602	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	C-90	3610	6780		6780	6780		532	681	677	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	H2S-90	4850	6780		6780	6780		553	691	677	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	S-95	4850	7150		7150	7150		568	740	714	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	T-95	3710	7150		7150	7050		560	716	714	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	H2S-95	4850	7150		7150	7050		560	716	714	0.328	6.969	6.844	0.00930	0.04718



## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
7 5/8	26.4	C-95	3710	7150		7150	7150		560	716	714	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	HCP-110	4850	8280		8280	8280		654	845	827	0.328	6.969	6.844	0.00930	0.04718
7 5/8	26.4	P-110	3920	8280		8280	8280		654	845	827	0.328	6.969	6.844	0.00930	0.04718
7 5/8	29.7	LS-65	4310	5590		5590	5590		474	629	555	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	L-80	4790	6890		6890	6890		566	721	683	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	HCL-80	7150	6890		6890	6890		650	785	683	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	N-80	4790	6890		6890	6890		575	749	683	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	HCN-80	7150	6890		6890	6890		650	785	683	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	C-90	5040	7750		7750	7750		625	773	769	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	H2S-90	7150	7750		7750	7750		650	785	769	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	S-95	7150	8180		8180	8180		668	841	811	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	T-95	5140	8180		8180	8180		659	813	811	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	H2S-95	7150	8180		8180	8180		659	813	811	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	C-95	5140	8180		8180	8180		659	813	811	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	HCP-110	7150	9470		9470	9470		769	960	940	0.375	6.875	6.75	0.01056	0.04592
7 5/8	29.7	P-110	5350	9470		9470	9470		769	960	940	0.375	6.875	6.75	0.01056	0.04592
7 5/8	33.7	L-80	6560	7900		7900	7900		664	820	778	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	HCL-80	8800	7900		7900	7900		762	894	778	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	N-80	6560	7900		7900	7900		674	852	778	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	HCN-80	8800	7900		7900	7900		762	894	778	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	C-90	7050	8880		8880	8880		733	880	875	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	H2S-90	8800	8880		8880	8880		762	894	875	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	S-95	8800	9380		9380	9380		783	957	923	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	T-95	7280	9380		9380	9380		772	925	923	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	H2S-95	8800	9380		9380	9380		772	925	923	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	C-95	7280	9380		9380	9380		772	925	923	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	HCP-110	8800	10860		10860	10860		901	1093	1069	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	P-110	7870	10860		10860	10860		901	1093	1069	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	HCQ-125	8800	12340		12340	12340		1009	1197	1215	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	Q-125	8350	12340		12340	12340		1009	1197	1215	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	LS-140	8690	13820		13820	13820		1128	1334	1361	0.43	6.765	6.64	0.01202	0.04446
7 5/8	33.7	V-150	8850	14800		14800	14800		1207	1424	1458	0.43	6.765	6.64	0.01202	0.04446
7 5/8	39	L-80	8820	9180		9180	9180		786	945	895	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	HCL-80	10600	9180		9180	9180		901	1029	895	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	N-80	8820	9180		9180	9180		798	981	895	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	HCN-80	10600	9180		9180	9180		901	1029	895	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	C-90	9620	10330		10330	10330		867	1013	1007	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	H2S-90	10600	10330		10330	10330		901	1029	1007	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	S-95	10600	10900		10900	10900		926	1101	1063	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	T-95	10000	10900		10900	10900		914	1065	1063	0.5	6.625	6.5	0.01384	0.04264

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
7 5/8	39	H2S-95	10600	10900		10900	10900		914	1065	1063	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	C-95	10000	10900		10900	10900		914	1065	1063	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	P-110	11080	12620		12620	12620		1066	1258	1231	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	Q-125	12060	14340		14340	14340		1194	1379	1399	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	LS-140	12930	16070		16070	16070		1335	1536	1567	0.5	6.625	6.5	0.01384	0.04264
7 5/8	39	V-150	13440	17210		17210	17210		1428	1640	1679	0.5	6.625	6.5	0.01384	0.04264
7 5/8	42.8	L-80	10810	10320		10320	9790		891	1053	998	0.562	6.501	6.376	0.01542	0.04106
7 5/8	42.8	N-80	10810	10320		10320	9790		905	1093	998	0.562	6.501	6.376	0.01542	0.04106
7 5/8	42.8	C-90	11890	11610		11610	11010		983	1129	1122	0.562	6.501	6.376	0.01542	0.04106
7 5/8	42.8	T-95	12410	12250		12250	11620		1037	1187	1185	0.562	6.501	6.376	0.01542	0.04106
7 5/8	42.8	C-95	12410	12250		12250	11620		1037	1187	1185	0.562	6.501	6.376	0.01542	0.04106
7 5/8	42.8	P-110	13920	14190		14190	13460		1210	1402	1372	0.562	6.501	6.376	0.01542	0.04106
7 5/8	42.8	Q-125	15350	16120		16120	15290		1355	1536	1559	0.562	6.501	6.376	0.01542	0.04106
7 5/8	45.3	L-80	11510	10920		10490	9790		947	1109	1051	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	HCL-80	12900	10920		10490	9790		1086	1177	1051	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	N-80	11510	10920		10490	9790		962	1152	1051	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	HCN-80	12900	10920		10490	9790		1086	1208	1051	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	C-90	12950	12290		11810	11010		1045	1189	1183	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	H2S-90	12950	12290		11810	11010		1086	1208	1183	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	S-95	13660	12970		12460	11620		1116	1293	1248	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	H2S-95	13660	12970		12460	11620		1101	1251	1248	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	C-95	13660	12970		12460	11620		1101	1251	1248	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	P-110	15430	15020		14430	13460		1285	1477	1446	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	Q-125	17090	17070		16400	15290		1439	1619	1643	0.595	6.435	6.31	0.01625	0.04023
7 5/8	45.3	V-150	19660	20480		19680	18350		1721	1926	1971	0.595	6.435	6.31	0.01625	0.04023
7 5/8	47.1	L-80	12040	11480		10490	9790		997	1160	1100	0.625	6.375	6.25	0.01700	0.03948
7 5/8	47.1	N-80	12040	11480		10490	9790		1013	1205	1100	0.625	6.375	6.25	0.01700	0.03948
7 5/8	47.1	C-90	13540	12910		11810	11010		1100	1238	1237	0.625	6.375	6.25	0.01700	0.03948
7 5/8	47.1	T-95	14300	13630		12460	11620		1159	1300	1306	0.625	6.375	6.25	0.01700	0.03948
7 5/8	47.1	C-95	14300	13630		12460	11620		1159	1300	1306	0.625	6.375	6.25	0.01700	0.03948
7 5/8	47.1	P-110	16550	15780		14430	13460		1353	1545	1512	0.625	6.375	6.25	0.01700	0.03948
7 5/8	47.1	Q-125	18700	17930		16400	15290		1515	1672	1718	0.625	6.375	6.25	0.01700	0.03948
7 5/8	51.2	C-90	14760	14190							1348	0.687	6.251	6.126	0.01852	0.03796
7 5/8	51.2	T-95	15580	14980							1423	0.687	6.251	6.126	0.01852	0.03796
7 5/8	55.3	C-90	15960	15490							1458	0.75	6.125	6	0.02004	0.03644
7 5/8	55.3	T-95	16850	16350							1539	0.75	6.125	6	0.02004	0.03644
7 3/4	46.1	L-80	11340	10750		10490	9790		841	1001	1070	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	HCL-80	13320	10750		10490	9790		965	1091	1070	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	C-90	12740	12090		11810	11010		928	1074	1204	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	H2S-90	12740	12090		11810	11010		965	1091	1204	0.595	6.56	6.435	0.01654	0.04180

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
7 3/4	46.1	S-95	13320	12760		12460	11620		992	1168	1271	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	T-95	13320	12760		12460	11620		978	1129	1271	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	H2S-95	13320	12760		12460	11620		978	1129	1271	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	C-95	13320	12760		12460	11620		978	1129	1271	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	P-110	14990	14780		14430	13460		1142	1334	1471	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	Q-125	16580	16790		16400	15290		1279	1462	1672	0.595	6.56	6.435	0.01654	0.04180
7 3/4	46.1	LS-140	18090	18810		18360	17130		1429	1628	1872	0.595	6.56	6.435	0.01654	0.04180
8 5/8	24	J-55	1370	2950	2950			244			381	0.264	8.097	7.972	0.00858	0.06369
8 5/8	24	K-55	1370	2950	2950			263			381	0.264	8.097	7.972	0.00858	0.06369
8 5/8	24	HCK-55	1780	2950	2950			326			381	0.264	8.097	7.972	0.00858	0.06369
8 5/8	24	LS-65	1430	3480	3480			302			451	0.264	8.097	7.972	0.00858	0.06369
8 5/8	28	H-40	1610	2470	2470			233			318	0.304	8.017	7.892	0.00983	0.06244
8 5/8	28	HCK-55	2680	3390	3390	3390	3390	414	464	651	437	0.304	8.017	7.892	0.00983	0.06244
8 5/8	32	H-40	2200	2860	2860			279			366	0.352	7.921	7.796	0.01132	0.06095
8 5/8	32	J-55	2530	3930	3930	3930	3930	372	417	579	503	0.352	7.921	7.796	0.01132	0.06095
8 5/8	32	K-55	2530	3930	3930	3930	3930	402	452	690	503	0.352	7.921	7.796	0.01132	0.06095
8 5/8	32	HCK-55	4130	3930	3930	3930	3930	497	556	749	503	0.352	7.921	7.796	0.01132	0.06095
8 5/8	32	LS-65	2740	4640	4640	4640	4640	435	487	664	595	0.352	7.921	7.796	0.01132	0.06095
8 5/8	36	J-55	3450	4460	4460	4460	4460	434	486	654	568	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	K-55	3450	4460	4460	4460	4460	468	526	780	568	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	HCK-55	5300	4460	4460	4460	4460	579	648	847	568	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	LS-65	3760	5280	5280	5280	5280	506	567	751	672	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	L-80	4100	6490		6490	6490		678	864	827	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	HCL-80	6060	6490		6490	6490		779	945	827	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	N-80	4100	6490		6490	6490		688	895	827	0.4	7.825	7.7	0.01278	0.05948
8 5/8	36	HCN-80	6060	6490		6490	6490		779	945	827	0.4	7.825	7.7	0.01278	0.05948
8 5/8	40	LS-65	4890	5930		5930	5930		649	839	751	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	L-80	5520	7300		7300	7300		776	966	925	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	HCL-80	7900	7300		7300	7300		892	1057	925	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	N-80	5520	7300		7300	7300		788	1001	925	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	HCN-80	7900	7300		7300	7300		892	1057	925	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	C-90	5870	8220		8220	8220		858	1038	1040	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	H2S-90	7900	8220		8220	8220		892	1057	1040	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	S-95	7900	8670		8670	8670		915	1127	1098	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	T-95	6020	8670		8670	8670		904	1092	1098	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	H2S-95	7900	8670		8670	8670		904	1092	1098	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	C-95	6020	8670		8670	8670		904	1092	1098	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	HCP-110	7900	10040		10040	10040		1055	1228	1271	0.45	7.725	7.6	0.01429	0.05797
8 5/8	40	P-110	6390	10040		10040	10040		1055	1228	1271	0.45	7.725	7.6	0.01429	0.05797
8 5/8	49	L-80	8580	9040		9040	9040		983	1180	1129	0.557	7.511	7.386	0.01746	0.05480

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
8 5/8	49	HCL-80	10400	9040		9040	9040		1129	1291	1129	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	N-80	8580	9040		9040	9040		997	1222	1129	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	HCN-80	10400	9040		9040	9040		1129	1291	1129	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	H2S-90	10400	10170		10170	10170		1129	1291	1271	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	S-95	10400	10740		10740	10740		1159	1377	1341	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	T-95	10400	10740		10740	10740		1144	1334	1341	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	H2S-95	10400	10740		10740	10740		1144	1334	1341	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	C-95	9710	10740		10740	10740		1144	1334	1341	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	P-110	10740	12430		12430	12430		1335	1574	1553	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	Q-125	11650	14130		14130	14130		1496	1728	1765	0.557	7.511	7.386	0.01746	0.05480
8 5/8	49	V-150	12950	16950		16950	16950		1789	2056	2118	0.557	7.511	7.386	0.01746	0.05480
8 5/8	44	L-80	6950	8120		8120	8120		874	1066	1021	5	7.625	7.5	0.01579	0.05648
8 5/8	44	HCL-80	9100	8120		8120	8120		1004	1167	1021	5	7.625	7.5	0.01579	0.05648
8 5/8	44	N-80	6950	8120		8120	8120		887	1105	1021	5	7.625	7.5	0.01579	0.05648
8 5/8	44	HCN-80	9100	8120		8120	8120		1004	1167	1021	5	7.625	7.5	0.01579	0.05648
8 5/8	44	C-90	7490	9130		9130	9130		965	1146	1149	5	7.625	7.5	0.01579	0.05648
8 5/8	44	H2S-90	9100	9130		9130	9130		1004	1167	1149	5	7.625	7.5	0.01579	0.05648
8 5/8	44	S-95	9100	9640		9640	9640		1030	1244	1212	5	7.625	7.5	0.01579	0.05648
8 5/8	44	T-95	7740	9640		9640	9640		1017	1206	1212	5	7.625	7.5	0.01579	0.05648
8 5/8	44	H2S-95	9100	9640		9640	9640		1017	1206	1212	5	7.625	7.5	0.01579	0.05648
8 5/8	44	C-95	7740	9640		9640	9640		1017	1206	1212	5	7.625	7.5	0.01579	0.05648
8 5/8	44	HCP-110	9100	11160		11160	11160		1186	1423	1404	5	7.625	7.5	0.01579	0.05648
8 5/8	44	P-110	8420	11160		11160	11160		1186	1423	1404	5	7.625	7.5	0.01579	0.05648
8 5/8	44	HCQ-125	9100	12680		12680	12680		1330	1562	1595	5	7.625	7.5	0.01579	0.05648
8 5/8	44	Q-125	8980	12680		12680	12680		1330	1562	1595	5	7.625	7.5	0.01579	0.05648
8 5/8	44	V-150	9640	15220		15220	15220		1591	1859	1914	5	7.625	7.5	0.01579	0.05648
9 5/8	32.3	H-40	1370	2270	2270			254			365	0.312	9.001	8.845	0.01129	0.07870
9 5/8	36	H-40	1720	2560	2560			294			410	0.352	8.921	8.765	0.01268	0.07731
9 5/8	36	J-55	2020	3520	3520	3520	3520	394	453	639	564	0.352	8.921	8.765	0.01268	0.07731
9 5/8	36	K-55	2020	3520	3520	3520	3520	423	489	755	564	0.352	8.921	8.765	0.01268	0.07731
9 5/8	36	HCK-55	2980	3520	3520	3520	3520	526	605	829	564	0.352	8.921	8.765	0.01268	0.07731
9 5/8	36	LS-65	2190	4160	4160	4160	4160	460	529	734	667	0.352	8.921	8.765	0.01268	0.07731
9 5/8	40	J-55	2570	3950	3950	3950	3950	452	520	714	630	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	K-55	2570	3950	3950	3950	3950	486	561	843	630	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	HCK-55	4230	3950	3950	3950	3950	604	64	926	630	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	LS-65	2770	4670	4670	4670	4670	528	608	823	745	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	L-80	3090	5750		5750	5750		727	947	916	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	HCL-80	4230	5750		5750	5750		837	1042	916	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	N-80	3090	5750		5750	5750		737	979	916	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	HCN-80	4230	5750		5750	5750		837	1042	916	0.395	8.835	8.679	0.01417	0.07583

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
9 5/8	40	C-90	3250	6460		6460	6460		804	1021	1031	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	H2S-90	4230	6460		6460	6460		837	1042	1031	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	S-95	4230	6820		6820	6820		858	1106	1088	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	T-95	3320	6820		6820	6820		847	1074	1088	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	H2S-95	4230	6820		6820	6820		847	1074	1088	0.395	8.835	8.679	0.01417	0.07583
9 5/8	40	C-95	3320	6820		6820	6820		847	1074	1088	0.395	8.835	8.679	0.01417	0.07583
9 5/8	43.5	LS-65	3520	5140		5140	5140		679	899	816	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	L-80	3810	6330		6330	6330		813	1038	1005	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	HCL-80	5600	6330		6330	6330		936	1142	1005	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	N-80	3810	6330		6330	6330		825	1074	1005	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	HCN-80	5600	6330		6330	6330		936	1142	1005	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	C-90	4010	7120		7120	7120		899	1119	1130	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	H2S-90	5600	7120		7120	7120		936	1142	1130	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	S-95	5600	7510		7510	7510		959	1213	1193	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	T-95	4120	7510		7510	7510		948	1178	1193	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	H2S-95	5600	7510		7510	7510		948	1178	1193	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	C-95	4120	7510		7510	7510		948	1178	1193	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	HCP-110	5600	8700		8700	8700		1106	1388	1381	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	P-110	4420	8700		8700	8700		1106	1388	1381	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	HCQ-125	5600	9890		9890	9890		1240	1527	1570	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	Q-125	4620	9890		9890	9890		1240	1527	1570	0.435	8.755	8.599	0.01553	0.07446
9 5/8	43.5	LS-140	5600	11070		11070	11070		1386	1702	1758	0.435	8.755	8.599	0.01553	0.07446
9 5/8	47	L-80	4760	6870		6870	6870		893	1122	1086	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	HCL-80	7100	6870		6870	6870		1027	1234	1086	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	N-80	4760	6870		6870	6870		905	1161	1086	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	HCN-80	7100	6870		6870	6870		1027	1234	1086	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	C-90	5000	7720		7720	7720		987	1210	1221	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	S-95	7100	8150		8150	8150		1053	1311	1289	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	T-95	5090	8150		8150	8150		1040	1273	1289	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	H2S-95	7100	8150		8150	8150		1040	1273	1289	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	C-95	5090	8150		8150	8150		1040	1273	1289	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	HCP-110	7100	9440		9440	9440		1213	1500	1493	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	P-110	5300	9440		9440	9440		1213	1500	1493	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	HCQ-125	7100	10730		10730	10730		1361	1650	1697	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	Q-125	5640	10730		10730	10730		1361	1650	1697	0.472	8.681	8.525	0.01679	0.07321
9 5/8	47	LS-140	7100	12010		12010	12010		1521	1839	1900	0.472	8.681	8.525	0.01679	0.07321
9 5/8	53.5	L-80	6620	7930		7930	7930		1047	1286	1244	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	HCL-80	8850	7930		7930	7930		1205	1414	1244	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	N-80	6620	7930		7930	7930		1062	1329	1244	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	HCN-80	8850	7930		7930	7930		1205	1414	1244	0.545	8.535	8.379	0.01923	0.07077

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
9 5/8	53.5	C-90	7120	8920		8920	8920		1157	1386	1399	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	H2S-90	8850	8920		8920	8920		1205	1414	1399	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	S-95	8850	9410		9410	9410		1235	1502	1477	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	T-95	7340	9410		9410	9410		1220	1458	1477	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	H2S-95	8850	9410		9410	9410		1220	1458	1477	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	C-95	7340	9410		9410	9410		1220	1458	1477	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	HCP-110	8850	10900		10900	10900		1422	1718	1710	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	P-110	7950	10900		10900	10900		1422	1718	1710	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	HCQ-125	8850	12390		12390	12390		1595	1890	1943	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	Q-125	8440	12390		12390	12390		1595	1890	1943	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	LS-140	8850	13870		13870	13870		1783	2107	2177	0.545	8.535	8.379	0.01923	0.07077
9 5/8	53.5	V-150	8960	14860		14860	14860		1909	2251	2332	0.545	8.535	8.379	0.01923	0.07077
9 5/8	58.4	L-80	7890	8650		8650	8650		1151	1396	1350	0.595	8.435	8.279	0.02088	0.06912
9 5/8	58.4	N-80	7890	8650		8650	8650		1167	1443	1350	0.595	8.435	8.279	0.02088	0.06912
9 5/8	58.4	C-90	8560	9740		9740	9740		1272	1504	1519	0.595	8.435	8.279	0.02088	0.06912
9 5/8	58.4	T-95	8880	10280		10280	10280		1341	1583	1604	0.595	8.435	8.279	0.02088	0.06912
9 5/8	58.4	C-95	8880	10280		10280	10280		1341	1583	1604	0.595	8.435	8.279	0.02088	0.06912
9 5/8	58.4	P-110	9760	11900		11900	11900		1564	1865	1857	0.595	8.435	8.279	0.02088	0.06912
9 5/8	58.4	Q-125	10530	13520		13520	13520		1754	2052	2110	0.595	8.435	8.279	0.02088	0.06912
9 5/8	59.4	C-90	8980	9970							1553	0.609	8.407	8.251	0.02134	0.06866
9 5/8	59.4	T-95	9320	10520							1634	0.609	8.407	8.251	0.02134	0.06866
9 5/8	64.9	C-90	10800	11000							1701	0.672	8.281	8.125	0.02338	0.06662
9 5/8	64.9	T-95	11260	11610							1796	0.672	8.281	8.125	0.02338	0.06662
9 5/8	70.3	C-90	12610	12010							1845	0.734	8.157	8.001	0.02536	0.06464
9 5/8	70.3	T-95	13180	12680							1948	0.734	8.157	8.001	0.02536	0.06464
9 5/8	75.6	C-90	13670	13040							1989	0.797	8.031	7.875	0.02734	0.06265
9 5/8	75.6	T-95	14430	13770							2100	0.797	8.031	7.875	0.02734	0.06265
9 3/4	59.2	H2S-90	9750	9610		9610	9610		1175	1383	1540	0.595	8.56		0.02117	0.07118
9 3/4	59.2	S-95	9750	10150		10150	10150		1204	1469	1626	0.595	8.56		0.02117	0.07118
9 3/4	59.2	H2S-95	9750	10150		10150	10150		1189	1426	1626	0.595	8.56		0.02117	0.07118
9 3/4	59.2	HCP-110	9750	11750		11750	11750		1387	1681	1882	0.595	8.56		0.02117	0.07118
9 3/4	59.2	P-110	9490	11750		11750	11750		1387	1681	1882	0.595	8.56		0.02117	0.07118
9 3/4	59.2	Q-125	10210	13350		13350	13350		1555	1850	2139	0.595	8.56		0.02117	0.07118
9 3/4	59.2	LS-140	10820	14950		14950	14950		1739	2061	2396	0.595	8.56		0.02117	0.07118
9 7/8	62.8	H2S-90	10180	9970		9970	9940		1096	1304	1635	0.625	8.625		0.02246	0.07227
9 7/8	62.8	S-95	10180	10520		10520	10490		1123	1385	1725	0.625	8.625		0.02246	0.07227
9 7/8	62.8	H2S-95	10180	10520		10520	10490		1109	1344	1725	0.625	8.625		0.02246	0.07227
9 7/8	62.8	P-110	10280	12180		12180	12140		1294	1584	1998	0.625	8.625		0.02246	0.07227
9 7/8	62.8	Q-125	11140	13840		13840	13800		1451	1743	2270	0.625	8.625		0.02246	0.07227
9 7/8	62.8	LS-140	11870	15510		15510	15460		1622	1942	2543	0.625	8.625		0.02246	0.07227

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
10 3/4	32.75	H-40	840	1820	1820			205			367	0.279	10.192	10.036	0.01135	0.10091
10 3/4	40.5	H-40	1390	2280	2280			314			457	0.35	10.05	9.894	0.01414	0.09812
10 3/4	40.5	J-55	1580	3130	3130		3130	420		700	629	0.35	10.05	9.894	0.01414	0.09812
10 3/4	40.5	K-55	1580	3130	3130		3130	450		819	629	0.35	10.05	9.894	0.01414	0.09812
10 3/4	40.5	HCK-55	2100	3130	3130		3130	562		911	629	0.35	10.05	9.894	0.01414	0.09812
10 3/4	40.5	LS-65	1680	3700	3700		3700	491		806	743	0.35	10.05	9.894	0.01414	0.09812
10 3/4	40.5	N-80	1730	4560	4560		4560	597		964	915	0.35	10.05	9.894	0.01414	0.09812
10 3/4	40.5	HCN-80	2100	4560	4560		4560	681		1034	915	0.35	10.05	9.894	0.01414	0.09812
10 3/4	45.5	J-55	2090	3580	3580		3580	493		796	715	0.4	9.95	9.794	0.01609	0.09617
10 3/4	45.5	HCK-55	3130	3580	3580		3580	659		1037	715	0.4	9.95	9.794	0.01609	0.09617
10 3/4	45.5	LS-65	2280	4230	4230		4230	576		916	845	0.4	9.95	9.794	0.01609	0.09617
10 3/4	45.5	N-80	2470	5210	5210		5210	701		1097	1040	0.4	9.95	9.794	0.01609	0.09617
10 3/4	45.5	HCN-80	3130	5210	5210		5210	799		1175	1040	0.4	9.95	9.794	0.01609	0.09617
10 3/4	51	J-55	2700	4030	4030		4030	565		891	801	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	K-55	2700	4030	4030		4030	606		1043	801	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	HCK-55	4420	4030	4030		4030	756		1160	801	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	LS-65	2870	4760	4760		4760	661		1026	946	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	L-80	3220	5860	5860		5860	794		1190	1165	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	HCL-80	4460	5860	5860		5860	906		1316	1165	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	N-80	3220	5860	5860		5860	804		1228	1165	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	HCN-80	4460	5860	5860		5860	916		1316	1165	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	C-90	3400	6590	6590		6590	879		1287	1311	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	H2S-90	4460	6590	6590		6590	916		1316	1311	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	S-95	4460	6960	6960		6960	937		1392	1383	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	T-95	3480	6960	6960		6960	927		1354	1383	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	H2S-95	4460	6960	6960		6960	927		1354	1383	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	C-95	3480	6960	6960		6960	927		1354	1383	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	HCP-110	4460	8060	8060		8060	1080		1594	1602	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	P-110	3660	8060	8060		8060	1080		1594	1602	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	HCQ-125	4660	9160	9160		9160	1213		1758	1820	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	Q-125	3740	9160	9160		9160	1213		1758	1820	0.45	9.85	9.694	0.01801	0.09425
10 3/4	51	LS-140	4460	10260	10260		10260	1356		1959	2039	0.45	9.85	9.694	0.01801	0.09425
10 3/4	55.5	HCK-55	5220	4430	4430		4430	843		1271	877	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	LS-65	3690	5240	5240		5240	736		1124	877	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	L-80	4020	6450	6450		6450	884		1303	1276	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	HCL-80	5950	6450	6450		6450	1010		1441	1276	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	N-80	4020	6450	6450		6450	895		1345	1276	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	HCN-80	5950	6450	6450		6450	1021		1441	1276	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	C-90	4160	7250	7250		7250	979		1409	1435	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	H2S-90	5950	7250	7250		7250	1021		1441	1435	0.495	9.76	9.604	0.01972	0.09254

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
10 3/4	55.5	S-95	5950	7660	7660		7660	1043		1524	1515	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	T-95	4290	7660	7660		7660	1032		1483	1515	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	H2S-95	5950	7660	7660		7660	1032		1483	1515	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	C-95	4290	7660	7660		7660	1032		1483	1515	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	HCP-110	5950	8860	8860		8860	1203		1745	1754	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	P-110	4610	8860	8860		8860	1203		1745	1754	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	HCQ-125	5950	10070	10070		10070	1351		1925	1993	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	Q-125	4850	10070	10070		10070	1351		1925	1993	0.495	9.76	9.604	0.01972	0.09254
10 3/4	55.5	LS-140	5950	11280	11280		11280	1510		2146	2233	0.495	9.76	9.604	0.01972	0.09254
10 3/4	60.7	L-80	5160	7100	7100		7100	983		1428	1398	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	HCL-80	7550	7100	7100		7100	1123		1579	1398	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	N-80	5160	7100	7100		7100	996		1473	1398	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	N-80	5160	7100	7100		7100	996		1473	1398	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	HCN-80	7550	7100	7100		7100	1136		1579	1398	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	C-90	5460	7980	7980		7980	1089		1544	1573	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	H2S-90	7550	7980	7980		7980	1136		1579	1573	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	S-95	7550	8430	8430		8430	1161		1670	1660	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	T-95	5590	8430	8430		8430	1148		1625	1660	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	H2S-95	7550	8430	8430		8430	1148		1625	1660	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	C-95	5590	8430	8430		8430	1148		1625	1660	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	HCP-110	7550	9760	9760		9760	1338		1912	1922	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	P-110	5880	9760	9760		9760	1338		1912	1922	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	HCQ-125	7550	11090	11090		11090	1503		2109	2184	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	Q-125	6070	11090	11090		11090	1503		2109	2184	0.545	9.66	9.504	0.02161	0.09065
10 3/4	60.7	LS-140	7550	12420	12420		12420	1680		2351	2446	0.545	9.66	9.504	0.02161	0.09065
10 3/4	65.7	L-80	6300	7750	7750		7750	1082		1551	1519	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	HCL-80	8640	7750	7750		7750	1236		1716	1519	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	N-80	6300	7750	7750		7750	1096		1600	1519	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	HCN-80	8640	7750	7750		7750	1249		1716	1519	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	C-90	6760	8720	8720		8720	1198		1677	1708	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	H2S-90	8640	8720	8720		8720	1249		1716	1708	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	S-95	8640	9200	9200		9200	1277		1814	1803	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	T-95	6960	9200	9200		9200	1263		1765	1803	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	H2S-95	8640	9200	9200		9200	1263		1765	1803	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	HCP-110	8640	10650	10650		10650	1472		2077	2088	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	P-110	7500	10650	10650		10650	1472		2077	2088	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	HCQ-125	8640	12110	12110		12110	1653		2291	2373	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	Q-125	7920	12110	12110		12110	1653		2291	2373	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	LS-140	8640	13560	13560		13560	1848		2554	2657	0.595	9.56	9.404	0.02348	0.08878
10 3/4	65.7	V-150	8320	14530	14530		14530	1978		2730	2847	0.595	9.56	9.404	0.02348	0.08878



## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
10 3/4	71.1	H2S-90	9300	9520	9200		8980	1317		1822	1856	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	S-95	9600	10050	9710		9480	1403		1971	1959	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	H2S-95	9600	10050	9710		9480	1388		1918	1959	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	HCP-110	9600	11640	11240		10980	1618		2257	2269	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	P-110	9300	11640	11240		10980	1618		2257	2269	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	Q-125	9990	13230	12780		12480	1817		2489	2578	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	LS-140	10570	14810	14310		13980	2031		2775	2888	0.65	9.45	9.294	0.02551	0.08675
10 3/4	71.1	V-150	10880	15870	15330		14970	2174		2966	3094	0.65	9.45	9.294	0.02551	0.08675
10 3/4	73.2	C-90	8760	9850							1915	0.672	9.406	9.25	0.02632	0.08595
10 3/4	73.2	T-95	9090	10390							2021	0.672	9.406	9.25	0.02632	0.08595
10 3/4	79.2	C-90	10370	10750							2079	0.734	9.282	9.126	0.02857	0.08369
10 3/4	79.2	T-95	10800	11350							2194	0.734	9.282	9.126	0.02857	0.08369
10 3/4	85.3	C-90	12010	11680							2243	0.797	9.156	9	0.03082	0.08144
10 3/4	85.3	T-95	12540	12330							2367	0.797	9.156	9	0.03082	0.08144
11 3/4	42	H-40	1040	1980	1980		1980	307		554	478	0.333	11.084	10.928	0.01477	0.11935
11 3/4	47	J-55	1510	3070		3070	3070	477		807	737	0.375	11	10.844	0.01658	0.11754
11 3/4	47	K-55	1510	3070		3070	3070	509		935	737	0.375	11	10.844	0.01658	0.11754
11 3/4	47	HCK-55	2000	3070		3070	3070	638		1054	737	0.375	11	10.844	0.01658	0.11754
11 3/4	47	LS-65	1590	3630		3630	3630	557		931	817	0.375	11	10.844	0.01658	0.11754
11 3/4	54	J-55	2070	3560		3560	3560	568		931	850	0.435	10.88	10.724	0.01913	0.11499
11 3/4	54	K-55	2070	3560		3560	3560	606		1079	850	0.435	10.88	10.724	0.01913	0.11499
11 3/4	54	HCK-55	3100	3560		3560	3560	760		1216	850	0.435	10.88	10.724	0.01913	0.11499
11 3/4	54	LS-65	2250	4210		4210	4210	665		1074	1005	0.435	10.88	10.724	0.01913	0.11499
11 3/4	60	J-55	2660	4010	4010		4010	649		1042	952	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	K-55	2660	4010	4010		4010	693		1208	952	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	HCK-55	4360	4010	4010		4010	869		1361	952	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	LS-65	2840	4730	4730		4730	759		1201	1125	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	L-80	3180	5830	5830		5830	913		1399	1384	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	HCL-80	4410	5830	5830		5830	1055		1555	1384	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	N-80	3180	5830	5830		5830	924		1440	1384	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	HCN-80	4410	5830	5830		5830	1055		1555	1384	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	C-90	3360	6550	6550		6550	1011		1517	1557	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	H2S-90	4410	6550	6550		6550	1055		1555	1557	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	S-95	4410	6920	6920		6920	1077		1638	1644	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	T-95	3440	6920	6920		6920	1066		1596	1644	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	H2S-95	4410	6920	6920		6920	1066		1596	1644	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	C-95	3440	6920	6920		6920	1066		1596	1644	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	HCP-110	4410	8010	8010		8010	1242		1877	1903	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	P-110	3610	8010	8010		8010	1242		1877	1903	0.489	10.772	10.616	0.02140	0.11272
11 3/4	60	HCQ-125	4410	9100	9100		9100	1396		2074	2163	0.489	10.772	10.616	0.02140	0.11272

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
11 3/4	60	Q-125	3680	9100	9100		9100	1396		2074	2163	0.489	10.772	10.616	0.02140	0.11272
11 3/4	65	LS-65	3580	5170	5170		5170	837		1307	1223	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	L-80	3870	6360	6360		6360	1007		1521	1505	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	HCL-80	5740	6360	6360		6360	1152		1691	1505	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	N-80	3870	6360	6360		6360	1019		1566	1505	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	HCN-80	5740	6360	6360		6360	1164		1691	1505	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	H2S-90	5140	7160	7160		7160	1164		1691	1639	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	S-95	5740	7560	7560		7560	1189		1781	1788	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	H2S-95	5740	7560	7560		7560	1177		1736	1788	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	HCP-110	5740	8750	8750		8750	1371		2041	2070	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	P-110	4480	8750	8750		8750	1371		2041	2070	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	HCQ-125	5740	9940	9940		9940	1540		2256	2352	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	Q-125	4690	9940	9940		9940	1540		2256	2352	0.534	10.682	10.526	0.02327	0.11085
11 3/4	65	LS-140	5740	11130	11130		11130	1722		2516	2634	0.534	10.682	10.526	0.02327	0.11085
11 3/4	71	H2S-90	7280	7800	7800		7800	1226		1790	1838	0.582	10.586	10.43	0.02526	0.10886
11 3/4	71	S-95	7280	8230	8230		8230	1306		1933	1940	0.582	10.586	10.43	0.02526	0.10886
11 3/4	71	H2S-95	7280	8230	8230		8230	1293		1884	1940	0.582	10.586	10.43	0.02526	0.10886
11 3/4	71	HCP-110	7280	9530	9530		9530	1506		2215	2246	0.582	10.586	10.43	0.02526	0.10886
11 3/4	71	HCQ-125	7280	10840	10840		10840	1693		2448	2552	0.582	10.586	10.43	0.02526	0.10886
11 3/4	71	Q-125	5760	10840	10840		10840	1693		2448	2552	0.582	10.586	10.43	0.02526	0.10886
11 7/8	71.8	H2S-90	7190	7270	7270		7270	1129		1647	1858	0.582	10.711		0.02554	0.11145
11 7/8	71.8	S-95	7190	8150	8150		8150	1153		1735	1962	0.582	10.711		0.02554	0.11145
11 7/8	71.8	H2S-95	7190	8150	8150		8150	1141		1691	1962	0.582	10.711		0.02554	0.11145
11 7/8	71.8	HCP-110	7190	9430	9430		9430	1329		1988	2271	0.582	10.711		0.02554	0.11145
11 7/8	71.8	P-110	5290	9430	9430		9430	1329		1988	2271	0.582	10.711		0.02554	0.11145
11 7/8	71.8	HCQ-125	7190	10720	10720		10720	1494		2198	2581	0.582	10.711		0.02554	0.11145
11 7/8	71.8	Q-125	5630	10720	10720		10720	1494		2198	2581	0.582	10.711		0.02554	0.11145
11 7/8	71	LS-140	7280	12140	12140		12140	1893		2730	2859	0.582	10.586	10.43	0.02813	0.10886
11 7/8	71.8	LS-140	7190	12010	12010		12010	1671		2451	2891	0.582	10.711		0.02554	0.11145
13 3/8	48	H-40	740	1730	1730		1730	322		607	541	0.33	12.715	12.559	0.01673	0.15705
13 3/8	54.5	J-55	1130	2730	2730		2730	514		909	853	0.38	12.615	12.459	0.01919	0.15459
13 3/8	54.5	K-55	1130	2730	2730		2730	547		1038	853	0.38	12.615	12.459	0.01919	0.15459
13 3/8	54.5	HCK-55	1400	2730	2730		2730	689		1194	853	0.38	12.615	12.459	0.01919	0.15459
13 3/8	54.5	LS-65	1140	3230	3230		3230	602		1052	1008	0.38	12.615	12.459	0.01919	0.15459
13 3/8	61	J-55	1540	3090	3090		3090	595		1025	962	0.43	12.515	12.359	0.02163	0.15215
13 3/8	61	K-55	1540	3090	3090		3090	633		1169	962	0.43	12.515	12.359	0.02163	0.15215
13 3/8	61	HCK-55	2040	3090	3090		3090	798		1345	962	0.43	12.515	12.359	0.02163	0.15215
13 3/8	61	LS-65	1620	3660	3660		3660	697		1185	1137	0.43	12.515	12.359	0.02163	0.15215
13 3/8	68	J-55	1950	3450	3450		3450	675		1140	1069	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	K-55	1950	3450	3450		3450	718		1300	1069	0.48	12.415	12.259	0.02405	0.14973

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
13 3/8	68	HCK-55	2850	3450	3450		3450	905		1496	1069	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	LS-65	2110	4080	4080		4080	791		1318	1264	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	L-80	2260	5020	5020		5020	952		1545	1556	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	HCL-80	2910	5020	5020		5020	1093		1732	1556	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	N-80	2260	5020	5020		5020	963		1585	1556	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	HCN-80	2910	5020	5020		5020	1103		1732	1556	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	C-90	2320	5650	5650		5650	1057		1683	1750	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	S-95	2910	5970	5970		5970	1125		1812	1847	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	T-95	2330	5970	5970		5970	1114		1772	1847	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	C-95	2330	5970	5970		5970	1114		1772	1847	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	HCP-110	2910	6910	6910		6910	1297		2079	2139	0.48	12.415	12.259	0.02405	0.14973
13 3/8	68	P-110	2340	6910	6910		6910	1297		2079	2139	0.48	12.415	12.259	0.02405	0.14973
13 3/8	72	LS-65	2430	4370	4370		4370	854		1408	1350	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	L-80	2670	5380	5380		5380	1029		1650	1661	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	HCL-80	3470	5380	5380		5380	1181		1850	1661	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	N-80	2670	5380	5380		5380	1040		1693	1661	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	HCN-80	3470	5380	5380		5380	1192		1850	1661	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	C-90	2780	6050	6050		6050	1142		1798	1869	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	H2S-90	3470	6050	6050		6050	1192		1850	1869	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	S-95	3470	6390	6390		6390	1215		1935	1973	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	T-95	2820	6390	6390		6390	1204		1893	1973	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	H2S-95	3470	6390	6390		6390	1204		1893	1973	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	C-95	2820	6390	6390		6390	1204		1893	1973	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	HCP-110	3470	7400	7400		7400	1402		2221	2284	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	P-110	2890	7400	7400		7400	1402		2221	2284	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	HCQ-125	3470	8410	8410		8410	1577		2463	2596	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	Q-125	2880	8410	8410		8410	1577		2463	2596	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	LS-140	3470	9420	9420		9420	1763		2749	2908	0.514	12.347	12.191	0.02569	0.14809
13 3/8	72	V-150	2880	10090	10090		10090	1887		2939	3115	0.514	12.347	12.191	0.02569	0.14809
13 3/8	80.7	H2S-90	4990	6830			7340			2077	2098	0.58	12.215	12.059	0.02884	0.14494
13 3/8	80.7	S-95	4990	7210			7210			2173	2215	0.58	12.215	12.059	0.02884	0.14494
13 3/8	80.7	H2S-95	4990	7210			7210			2125	2215	0.58	12.215	12.059	0.02884	0.14494
13 3/8	80.7	HCP-110	4990	8350			8350			2493	2565	0.58	12.215	12.059	0.02884	0.14494
13 3/8	80.7	P-110	4000	8350			8350			2493	2565	0.58	12.215	12.059	0.02884	0.14494
13 3/8	80.7	HCQ-125	4990	9490			9490			2765	2914	0.58	12.215	12.059	0.02884	0.14494
13 3/8	80.7	Q-125	4140	9490			9490			2765	2914	0.58	12.215	12.059	0.02884	0.14494
13 3/8	86	S-95	6240	7770			7750			2333	2378	0.625	12.125	11.969	0.03096	0.14282
13 3/8	86	HCP-110	6240	9000			8980			2677	2754	0.625	12.125	11.969	0.03096	0.14282
13 3/8	86	P-110	4780	9000			8980			2677	2754	0.625	12.125	11.969	0.03096	0.14282
13 3/8	86	HCQ-125	6240	10220			10200			2969	3129	0.625	12.125	11.969	0.03096	0.14282

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
13 3/8	86	Q-125	5030	10220			10200			2969	3129	0.625	12.125	11.969	0.03096	0.14282
13 1/2	81.4	H2S-90	4860	6770			6770			1862	2119	0.58	12.34		0.02912	0.14793
13 1/2	81.4	S-95	4860	7140			7140			1948	2236	0.58	12.34		0.02912	0.14793
13 1/2	81.4	H2S-95	4860	7140			7140			1905	2236	0.58	12.34		0.02912	0.14793
13 1/2	81.4	HCP-110	4860	8270			8270			2235	2590	0.58	12.34		0.02912	0.14793
13 1/2	81.4	P-110	3910	8270			8270			2235	2590	0.58	12.34		0.02912	0.14793
13 1/2	81.4	HCQ-125	4860	9400			9400			2479	2943	0.58	12.34		0.02912	0.14793
13 1/2	81.4	Q-125	4030	9400			9400			2479	2943	0.58	12.34		0.02912	0.14793
13 5/8	88.2	H2S-90	5930	7220			7220			1801	2297	0.625	12.375		0.03157	0.14877
13 5/8	88.2	S-95	5930	7630			7630			1885	2425	0.625	12.375		0.03157	0.14877
13 5/8	88.2	H2S-95	5930	7630			7630			1843	2425	0.625	12.375		0.03157	0.14877
13 5/8	88.2	HCP-110	5930	8830			8830			2163	2808	0.625	12.375		0.03157	0.14877
13 5/8	88.2	P-110	4570	8830			8830			2163	2808	0.625	12.375		0.03157	0.14877
13 5/8	88.2	HCQ-125	5930	10030			10030			2399	3191	0.625	12.375		0.03157	0.14877
13 5/8	88.2	Q-125	4800	10030			10030			2399	3191	0.625	12.375		0.03157	0.14877
16	65	H-40	630	1640	1640		1640	439		781	736	0.375	15.25	15.062	0.02277	0.22592
16	75	J-55	1020	2630	2630		2630	710		1200	1178	0.438	15.124	14.936	0.02649	0.22220
16	75	K-55	1020	2630	2630		2630	752		1331	1178	0.438	15.124	14.936	0.02649	0.22220
16	75	LS-65	1020	3110	3110		3110	832		1394	1392	0.438	15.124	14.936	0.02649	0.22220
16	84	J-55	1410	2980	2980		2980	817		1351	1326	0.495	15.01	14.822	0.02982	0.21887
16	84	K-55	1410	2980	2980		2980	865		1499	1326	0.495	15.01	14.822	0.02982	0.21887
16	84	LS-65	1470	3520	3520		3520	957		1570	1567	0.495	15.01	14.822	0.02982	0.21887
16	84	N-80	1480	4330	4330		4330	1167		1898	1929	0.495	15.01	14.822	0.02982	0.21887
16	84	HCN-80	1910	4330	4330		4330	1342		1898	1929	0.495	15.01	14.822	0.02982	0.21887
16	84	HCP-110	1910	5960	5960		5960	1575		2518	2652	0.495	15.01	14.822	0.02982	0.21887
16	84	P-110	1480	5960	5960		5960	1575		2518	2652	0.495	15.01	14.822	0.02982	0.21887
16	84	HCQ-125	1910	6770	6770		6770	1773		2809	3014	0.495	15.01	14.822	0.02982	0.21887
16	84	Q-125	1480	6770	6770		6770	1773		2809	3014	0.495	15.01	14.822	0.02982	0.21887
16	95	N-80	2180	4950			4950			2161	2196	0.566	14.868		0.03394	0.21474
16	95	HCN-80	2580	4950			4950			2161	2196	0.566	14.868		0.03394	0.21474
16	95	HCP-110	2580	6810			6810			2866	3019	0.566	14.868		0.03394	0.21474
16	95	P-110	2230	6810			6810			2866	3019	0.566	14.868		0.03394	0.21474
16	95	HCQ-125	2580	7740			7740			3198	3431	0.566	14.868		0.03394	0.21474
16	95	Q-125	2230	7740			7740			3198	3431	0.566	14.868		0.03394	0.21474
16	97	N-80	2270	5030			5030			2194	2230	0.575	14.85		0.03446	0.21422
16	97	HCN-80	2990	5030			5030			2194	2230	0.575	14.85		0.03446	0.21422
16	97	HCP-110	2990	6920			6920			2910	3067	0.575	14.85		0.03446	0.21422
16	97	P-110	2340	6920			6920			2910	3067	0.575	14.85		0.03446	0.21422
16	97	HCQ-125	2990	7860			7860			3246	3485	0.575	14.85		0.03446	0.21422
16	97	Q-125	2340	7860			7860			3246	3485	0.575	14.85		0.03446	0.21422

## Casing Data Sheet

O.D. (inch)	Nominal Weight T & C lbs/ft	Grade	Collapse Pressure (psi)	Internal Yield Pressure Minimum Yield (psi)				Joint Strength 1000 lbs			Body Yield 1000 lbs	Wall (inch)	I.D. (inch)	Drift Diameter (inch)	Displacement (bbl/ft)	Capacity (bbl/ft)
				PE	STC	LTC	BTC	STC	LTC	BTC						
16	109	J-55	2560	3950	3950		3950	1116		1772	1739	0.656	14.688	14.5	0.03911	0.20958
16	109	K-55	2560	3950	3950		3950	1181		1965	1739	0.656	14.688	14.5	0.03911	0.20958
16	109	N-80	3080	5740	5740		5740	1594		2489	1739	0.656	14.688	14.5	0.03911	0.20958
16	118	J-55	3170	4300	4300		4300	1224		1924	1889	0.715	14.57	14.382	0.04247	0.20622
16	118	K-55	3170	4300	4300		4300	1296		2131	1889	0.715	14.57	14.382	0.04247	0.20622
16	118	N-80	3680	6260	6260		6260	1741		2703	2747	0.715	14.57	14.382	0.04247	0.20622
18 5/8	87.5	H-40	630	1630	1630		1630	559		993	995	0.435	17.755	17.567	0.03075	0.30624
18 5/8	87.5	J-55	630	2250	2250		2250	754		1329	1368	0.435	17.755	17.567	0.03075	0.30624
18 5/8	87.5	K-55	630	2250	2250		2250	794		1427	1368	0.435	17.755	17.567	0.03075	0.30624
18 5/8	87.5	N-80	630	3270	3270		3270	1079		1887	1990	0.435	17.755	17.567	0.03075	0.30624
18 5/8	94.5	H-40	780	1760	1760		1760	609		1067	1068	0.468	17.689	17.501	0.03302	0.30396
18 5/8	94.5	J-55	780	2420	2420		2420	821		1427	1469	0.468	17.689	17.501	0.03302	0.30396
18 5/8	94.5	K-55	780	2420	2420		2420	865		1533	1469	0.468	17.689	17.501	0.03302	0.30396
18 5/8	94.5	N-80	780	3520	3520		3520	1174		2027	2137	0.468	17.689	17.501	0.03302	0.30396
18 5/8	106	H-40	1140	2000	2000		2000	703		1206	1208	0.531	17.563	17.375	0.03733	0.29965
18 5/8	106	J-55	1140	2740	2740		2740	948		1613	1661	0.531	17.563	17.375	0.03733	0.29965
18 5/8	106	K-55	1140	2740	2740		2740	998		1733	1661	0.531	17.563	17.375	0.03733	0.29965
18 5/8	106	N-80	1150	3990	3990		3990	1356		2292	2416	0.531	17.563	17.375	0.03733	0.29965
18 5/8	117.5	H-40	1500	2230	2230		2230	795		1342	1344	0.593	17.439	17.251	0.04155	0.29543
18 5/8	117.5	J-55	1510	3060	3060		3060	1072		1795	1849	0.593	17.439	17.251	0.04155	0.29543
18 5/8	117.5	K-55	1510	3060	3060		3060	1129		1929	1849	0.593	17.439	17.251	0.04155	0.29543
18 5/8	117.5	N-80	1620	4460	4460		4460	1534		2551	2689	0.593	17.439	17.251	0.04155	0.29543
20	94	H-40	520	1530	1530		1530	581		1041	1077	0.438	19.124	18.936	0.03329	0.35528
20	94	J-55	520	2110	2110	2110	2110	783	907	1402	1480	0.438	19.124	18.936	0.03329	0.35528
20	94	K-55	520	2110	2110	2110	2110	824	955	1479	1480	0.438	19.124	18.936	0.03329	0.35528
20	106.5	J-55	770	2410	2410	2410	2410	913	1056	1595	1685	0.5	19	18.812	0.03789	0.35069
20	106.5	K-55	770	2410	2410	2410	2410	960	1113	1683	1685	0.5	19	18.812	0.03789	0.35069
20	106.5	N-80	770	3500	3500	3500	3500	1307	1514	2281	2450	0.5	19	18.812	0.03789	0.35069
20	133	K-55	1500	3060	3060	3060	3060	1253	1453	2123	2125	0.635	18.73	18.542	0.04778	0.34079
20	133	L-80	1600	4450	4450	4450	4450	1692	1958	2849	3091	0.635	18.73	18.542	0.04778	0.34079
20	133	N-80	1600	4450	4450	4450	4450	1707	1976	2877	3091	0.635	18.73	18.542	0.04778	0.34079
20	169	K-55	2500	3910	3230	3430	3380	1402	1732	2689	2692	0.812	18.376	18.188	0.06054	0.32803
20	169	L-80	3020	5680	4690	4990	4920	2202	2549	3610	3916	0.812	18.376	18.188	0.06054	0.32803
20	169	N-80	3020	5680	4690	4990	4920	2221	2573	3645	3916	0.812	18.376	18.188	0.06054	0.32803