

DESIGN DATA SHEET - CASING

C07014-03

Lse. and Well No.: Federal 53 "Com" NO. 1 Division : Western Date Form Prepared: 9/15/83
 Field : Wildcat Region : Directional Hole: ☐ Yes, ☒ No
 State : New Mexico Proposed T.D.: 15,500 Max. Degrees off Vertical:

DESIGN CONDITIONS

Sur., Int., Prod., Etc.	Cond.	Surf.	Int.	Int.	Prod.
Csg. O.D., In.	20	13 3/8	10 3/4	7 5/8	5
Depth, ft.	30	900	5340	12,900	15,500
Bit Size, In.	26	17 1/2	12 1/4	9 1/2	6 1/2
Mud Wt., #/gal.		9.0	10	9.0	15.2
Burst. Press., psi		421	2774	6031	12,245
Min. Collapse D.F.		1.125	1.125	1.125	1.125
Min. Tension D.F.		1.800	1.800	1.800	1.800
Min. Burst D.F.		1.000	1.000	1.000	1.000
Buoyancy Considered					
Bending, °/100'					
From, Ft.					
To, Ft.					
Wear or Corr., Allow., In.					

CLEARANCE

Cplg. to Csg. Above, In.		0.809	1.294	1.187
Cplg. to Hole, In.	3.125	0.500	1.100	0.937
Bit to Csg., In.	0.309	0.294	0.250	

RECOMMENDED CASING STRINGS

Sec- tion	Depth, Ft.		Sec. Wt. Cwt. K Lbs.	Csg. O.D. In.	Length, Ft.	Weight #/Ft.	Grade Steel	Type Joint	Actual Design Factors (D.F.)			Mill Cost, \$
	From	To							Coll.	Ten.	Burst	
1	0	900	43.2	13 3/8	900	48	H-40	ST&C	1.829	7.454	4.109	
2	0	2500	226.0	10 3/4	2500	40.50	K-55	ST&C	1.131	1.991	1.128	
	2500	3400	124.7	10 3/4	900	40.50	K-55	ST&C	1.135	4.506	1.128	
	3400	5340	88.3	10 3/4	1940	45.50	S-80	ST&C	1.128	7.466	1.291	
3	0	1500	354.8	7 5/8	1500	26.40	S-95	BUTT	5.463	2.086	1.186	
	1500	8600	315.2	7 5/8	7100	26.40	S-95	LT&C	1.132	1.802	1.186	
	8600	12,900	127.7	7 5/8	4300	29.70	S-95	LT&C	1.186	5.223	1.356	
4	12,500	14,500	59.2	5	2000	18	S-105	LT&C	1.124	8.365	1.051	
	14,500	15,500	23.2	5	1000	23.20	N-80	LT&C	1.129	23.276	1.093	

WELL HEAD RECOMMENDATIONS:

Dual Master Valve - 10,000# WP

ACCESSORY RECOMMENDATIONS:

Sweet Gas Service

CEMENTING RECOMMENDATIONS:

REMARKS:

Div. Engineer:

Div. Manager:

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O.C.D.
HOURS OFFICE