

CASING PROGRAM

We propose to use the following strings of Casing and to cement them as indicated:

Size of Hole	Size of Casing	Weight per Foot	New or Second Hand	Depth	Sacks Cement
17-1/2"	13-3/8"	48 & 54.5	New	1575'	1200*
12-1/4"	9-5/8"	36 & 40	New	4800'	1700**
8-5/8"	2-7/8"	6.5	New	10,300'	2400***
	2-7/8"	6.5	New	10,300'	
	2-7/8"	6.5	New	10,300'	

* 850 Sacks Class "C" 4% gel, plus 350 sacks Class "C" Neat, all with accelerator

** 1500 Sacks Class "C" 8% gel, followed by 200 Sacks Class "C" Neat with 2% Calcium Chloride.

*** Set three strings at total depth. Externally clean casing & install centralizers and scratchers over prospective pays. Cement with 600 sacks Class "C" 2% gel with friction reducing agent, followed by 1200 Sacks Class "C" 8% gel, followed by 600 sacks Class "C" 2% gel. Displace cement with acetic acid.

FORMATION TOPS EXPECTED

Anhydrite	1550'
Glorieta	5930'
Abo	7945'
Wolfcamp	9315'
L. Wolfcamp	9860'
Pennsylvanian	10,085'
Total Depth	10,300'