

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
20"	16"	65	New	0-100'	1150*
17 1/2"	13 3/8"	48 & 54.5	New	1,510'	
12 1/4"	11 3/4"	47	New	4,800'	1700**
12 1/4"	9 5/8"	36 & 40	New		
8 3/4"	3 1/2"	9.2	New	(Dev) 12,140'	+2200***
8 3/4"	2 7/8"	6.4	New	(Penn) 11,200'	
8 3/4"	2 7/8"	6.4	New	(Wlfc) 11,200'	

*850 sx. Class "C", 4% gel + 300 sx. Class "C" Neat.

**1500 sx. Class "C", 8% gel + 200 sx. Class "C" Neat.

***450 sx. Class "C" Neat containing friction reducing agent to attain turbulent flow. 500 sx. Class "C", 4% gel containing friction reducing agent followed by 1250 sx. Class "C", 4% gel with no friction reducing agent.

FORMATION TOPS EXPECTED

Glorieta	5,765'
Blinbry (Mkr.)	6,450'
Tubb	7,220'
Abo	7,845'
Wolfcamp (Line)	9,250'
Bursum	9,800'
Pennsylvanian	10,050'
Strawn	10,710'
Miss., Lower	11,200'
Woodford	11,820'
Devonian	12,020'