

CASING PROGRAM

to run the following strings of Casing and to cement them as follows:

Size of Hole	Size of Casing	Weight per Ft.	New or Second Hand	Depth	Sacks Cement
11 1/4"	13 3/4"	54.5 & 48	New	1,510'	1200*
12 1/4"	9 5/8"	40 & 36	New	4,800'	1700**
3 3/4"	3 1/2"	9.20	New	12,150' (Dev)	2200***
3 3/4"	2 7/8"	6.5	New	10,800' (Penn)	
3 3/4"	2 7/8"	6.5	New	10,500' (Wolf)	

* 1200 sks. Incor, 4% gel + 350 sks. Class "A" Neat.

** 1700 sks. Incor, 8% gel + 200 sks. Class "A" Neat.

*** 2nd Stages:

1st Stage - 450 sks. Incor Neat.

2nd Stage - 1750 sks. Incor 4% gel.

Use friction reducing agent in first 500 sks. of 2nd stage to attain turbulent flow in this batch.

FORMATION TOPS EXPECTED

Top of Glorieta	5,740'
Top of Blinbry (Marker)	6,430'
Top of Tubb	7,205'
Top of Abo	7,835'
Top of Wolfcamp (XX)	9,275'
Top of Bursum	9,790'
Top of Penn.	9,995'
Top of Atoka	10,792'
Top of Lower Miss.	11,217'
Top of Woodford	11,825'
Top of Devonian	11,965'