

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#	New	400'	400
12 1/4"	9 5/8"	40#	New	5,310'	2,300*
8 3/4"	7 5/8"	29.70#	New	14,500' One string of pipe, top 100' being 7 5/8"	1,100
8 3/4"	7"	26, 29 & 32#	New		
5 7/8"	4 1/2" (Liner)	11.60#	New	14,400 to 15,200	200**

* Two stages: 1st Stage 600 sks. Class "C" 4% gel plus 200 sks. Class "C" Neat.

2nd Stage 1,500 sks. Class "C" 8% gel.

** 100 sks. around bottom and 100 sks. squeezed around top.

FORMATION TOPS EXPECTED

Top of Anhydrite	1,780'
Base of Salt	3,370'
Top of Yates	3,485'
Top of Delaware mtn.	5,310'
Top of Bone Spring	8,460'
Top of Dean	10,385'
Top of Wolfcamp	11,910'
Top of Strawn	12,810'
Top of Morrow	13,760'
Top of Upper Miss.	14,310'
Top of Lower Miss.	14,635'
Top of Woodford	14,935'
Top of Devonian	14,960'
Total Depth	15,200'