

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
15"	11-3/4"	23.72 & 31.2	New	900'	700*
10-5/8"	8-5/8"	24 & 32	New	3900'	750**
7-7/8"	2-7/8"	6.5	New	13,000'	1700 ***
	2-7/8"	6.5	New	13,000'	

* 500 sx. Class "C" 4% gel, followed by 200 sx. class "C" Neat, all w/accelerator

** Set DV Tool @ Approx. 2810'. Cement 1st. stage w/300 sx. Class "C", 12% gel, followed by 150 sx. Class "C" Neat. 2nd. stage w/200 sx. class "C", 12% gel, followed by 100 sx/class "C" neat.

*** Externally clean casing from 10,900' - TD & install centralizers & scratchers on each joint of each string 10,900-TD. Cement down both strings with 300 sx. Class "C", 4% gel, W/FRA for turbulent flow, followed by 900 sx. Class "C" 4% gel, followed by 500 sx. Class "C" Neat. Use retarder if necessary. Displace cement W/acetic acid.

FORMATION TOPS EXPECTED

Anhydrite	880'
Yates	2460'
Delaware Mt.	4480'
Bone Spring	7030'
Bone Spring (Zone 3)	8340'
Wolfcamp Lime	10,320'
Strawn	11,060'
Morrow	11,860'
Total Depth	13,000'