3. Estimated Depths of Anticipated Fresh Water, Oil, or Gas:

Upper Permian Sands	0-300'	fresh water
Wolfcamp "Chert"	10,943'	oil
Atoka	10,403'	gas
Middle Morrow Clastics	13,130'	gas
Lower Morrow	13,500'	gas

The ground water will be protected by setting 13-3/8" surface casing at 425' and circulating cement back to surface. The productive Morrow horizons will be protected by setting 5-1/2" production casing at TD with cement tied back to approximately 9000', if Wolfcamp is productive or 500' above upper most productive zone.

4. Proposed Casing Program:

Hole Size	Interval	Casing OD	Description
25" 17-1/2" 11" 7-7/8" 7-7/8"	0-40' 0-590' 128 0-4000' 0-10,200' 10,200-13,750'	8-5/8" 5-1/2"	Conductor, if necessary 48#, H-40, ST&C, New, R-3 32#, J-55, LT&C, New, R-3 17#, L-80, LT&C, New, R-3 17#, S-95, LT&C, New, R-3

Proposed Cement Program:

2011	C 1 4	
ZU^{-}	Conductor:	

Ready-mix poured to surface.

13-3/8" Surface Casing:

Set in top of Rustley fm. Cemented to surface with 350 sx Permian Basin Filler Cement & 200 sx Class "C" +2% CaCl2 tail. Float equipment: Texas Pattern shoe with an insert float valve above the shoe joint and 2 centralizers. The shoe and first collar will be welded. One plug will be used to displace cement.

8-5/8" Intermediate Casing:

Cemented to surface with 1300 sx Interfill "C" & 200 sx Class "C" + 2% CaCl2 tail. Float equipment: Float shoe with a float collar 1 joint above the shoe joint and 12 centralizers. The shoe and float collar will be welded. One plug will be used to displace cement.

5-1/2" Production Casing:

Cement 1st Stage: 550 sx Super Modified H w/ 0.4% CFR-3, 0.5% Halad 344, 1# salt & 5# Gilsonite.

Cement 2nd Stage (If necessary) +/- 700 sx Interfill "H" w/

5# Gilsonite followed by 100 sx "H" neat.