

Cement Program:

20" Surface Casing  
@ 500':

Cemented to surface with 1150 sx Prem Plus + 2%  $\text{CaCl}_2$ .

13-3/8" Intermediate Casing  
@ 3300':

Cemented to surface with 2100 sx Prem Plus Halliburton Lite + 6% gel + 15#/sx salt + 1/4#/sx Flocele and 250 sx Prem. Plus + 2%  $\text{CaCl}_2$ .

8-5/8" Intermediate Casing  
@ 5350':

Cemented to 3000' with 400 sacks Halliburton Lite + 6% gel + 0.3 % Halad 9 + 1/4 #/sx Flocele and 300 sx Prem. Plus.

5-1/2" Production  
Casing @ TD:

Cemented with 500 sx Halliburton Lite + 6% gel + 0.4% Halad 9 and 500 sx Prem 50/50 POZ + 2% gel + 0.6% Halad 22A + 0.4% CFR-2. This cement slurry is designed to bring TOC to 10000'. Shallower productive zones will be cemented by placing a cementing stage tool below the zone of interest if necessary and cementing with a similar type of cement.

5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5,000 psi WP) preventer and a bag-type (hydril) preventer (5000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4-1/2" drill pipe rams on bottom. Both BOP's will be nipped up on the 13-3/8" intermediate casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 1000 psi before drilling out of 13-3/8" casing. Before drilling out of 8-5/8" casing, the ram-type BOP and accessory equipment will be tested to 5,000 psi and the hydril to 70% of rated working pressure (3500 psi). This testing procedure will be duplicated at 11,500' (prior to drilling Wolfcamp formation) and after any use under pressure during the drilling of the well.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.