

9. The proposed casing program is as follows:

Surface: 13-3/8" 48# H40 ST&C new casing set at 625'  
Intermediate: 9-5/8" 36# K55 ST&C new casing from 0-4500'  
Production: 5-1/2" 17# L80/S95 LT&C new casing from 0-12300'  
L80-8800' S95-3600'

10. Casing setting depth and cementing program:

A. 13-3/8" surface casing set at 625' in 17-1/2" hole.  
Circulate cement with 300sx 35:65 POZ/C w/ 6% Bentonite + 2%  
CaCl<sub>2</sub> + .25#/sx Cello-Seal followed by 100sx Class C w/ 2%  
CaCl<sub>2</sub>.

If cement does not circulate, a temperature survey will be  
run to find the TOC and then finish cementing to surface  
through 1" using Class C with 2% CaCl<sub>2</sub>.

B. 9-5/8" intermediate casing set at 4500' in 12-1/4" hole.  
Circulate cement with 1000sx 35:65 POZ/C w/ 6% Bentonite +  
2% CaCl<sub>2</sub> + .25#/sx Cello-Seal followed by 200sx Class C w/  
2% CaCl<sub>2</sub>.

If hole conditions dictate, a DV tool may be run to ensure  
that the intermediate string is cemented to surface.

If cement does not circulate, a temperature survey will be  
run to find the TOC and then finish cementing to surface  
through 1" using Class C with 2% CaCl<sub>2</sub>.

Note: Cement volumes may be adjusted according to fluid  
caliper.

C. 5-1/2" production casing set at 12300' in 8-3/4" hole.  
Cement with 900sx 15:61:11 POZ/C/CSE w/ .5% FL-25 + .5% FL-  
52 + 8#/sx Gilsonite followed by 100sx Class C w/ .7% FL-25.

Estimated top of cement is 8000'.

Note: Cement volumes may need to be adjusted to hole  
caliper.

11. Pressure Control Equipment

0-625'	None
625-4500'	13-3/8" 3M annular preventer, to be used as divertor only. Exhibit A
625-12300'	11" 5000# ram type preventers with one set blind rams and one set pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head below 8500'. Exhibit A.