

9. The proposed casing program is as follows:

Surface: 13-3/8" 48# H40 ST&C new casing set at 650'
Intermediate: 9-5/8" 36# K55 ST&C new casing from 0-2900'
Production: 5-1/2" 17# L80-S95 LT&C new casing from 0-12000'
N80-0-8800' S95-8800-12000'

10. Casing setting depth and cementing program:

- A. 13-3/8" surface casing set at 650' in 17-1/2" hole.
Circulate cement with 320sx 35:65 POZ/C w/ 6% Bentonite + 2% CaCl_2 + .25#/sx Cello-Seal followed by 200sx Class C w/ 2% CaCl_2 .

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_2 .

- B. 9-5/8" intermediate casing set at 2900' in 12-1/4" hole.
Circulate cement with 650sx 35:65 POZ/C w/ 6% Bentonite + 2% CaCl_2 + .25#/sx Cello-Seal followed by 200sx Class C w/ 2% CaCl_2 .

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_2 .

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

- C. 5-1/2" production casing set at 12000'. Cement with 870sx 15:61:11 POZ/C/CSE w/ .5% FL-25 + .5% FL-52 + 8#/sx Gilsonite followed by 75sx Class C w/ .7% FL-25.

Estimated top of cement is 7700'.

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

11. Pressure Control Equipment

0'-650'	None
650'-2900'	13-3/8" 3M annular preventer, to be used as divertor only.
2900'-12000'	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 6000'. Exhibit A.