

IV. Materials:

A. Casing Program:

<u>HOLES SIZE</u>	<u>DEPTH</u>	<u>CAS. SIZE</u>	<u>WT. & GRADE</u>
16"	40'	13 3/8"	29.3# H-40
12 1/4"	800'	9 5/8"	32.3# H-40
8 1/2"	7,050'	7"	23.0# N-80

B. Float Equipment:

13 3/8" conductor - None
 9 5/8" surface - Cement guide shoe, orifice
 fill insert float two jts off
 bottom, centralizers on jts 1, 3,
 5, 7, 9, 11
 7" production - Cement guide shoe, float
 collar at top of first jt, one
 centralizer and four turbolizers
 per jt for first 16 jts, one
 centralizer every 3rd jt for 21
 jts thereafter. Rough coat bottom
 1,500' of casing.

C. Tubing:

7,000 ft. 2 7/8" 6.5# J-55

D. Wellhead Equipment:

Bradenhead, 9 5/8" OD slip-on X 11" 3000# W.P.
 3 10" X 7" OD hanger
 Tbg Spool 11" 3000# W.P. X 7 1/16" 5000# W.P.
 with 6" X 2 7/8" OD hanger
 Upper Run: 3 1/8" 5000# W.P. master valve
 and production valves.

V. Cementing:

A. Conductor Casing (16" X 13 3/8"):

Cement in place with redi-mix aggregate cement
 (approx. 2 yds), WOC 12 hrs.

B. Surface Casing (12 1/4" X 9 5/8"):

Use 480 sx Class "C", 2% CaCl₂ and 5 lbs
 Kolite and 1/4# Celloflute per sack. (650 cu.
 ft., 150' excess to circulate to surface). WOC
 6 hrs. Test csg to 800 psi for 30 min. before
 drilling plug.

C. Production Casing (8 1/2" X 7"):

Use caliper volume plus 20% to fill to approx.
 5,550'. Cement with approx. 250 sx Class "B"
 plus 4% gel and 10% salt, 0.5% D65 and 10 lbs
 Kolite. WOC 16 hrs. Run temperature survey
 after 8 hrs.