7.b Precede cement w/1000 gals of Super Flush 102, then cement First Stage of 8-5/8" w/250 sx Howco Lite w/15#/sx salt, 5#/sx Gilsonite and 1/4#/sx of Flocele. Slurry weight - 12.4#/gal w/a slurry volume of 1.99 cu ft/sx and a water ratio of 10.63 gal/sx. And tail-in w/150 sx Class C w/2% CaCl, 1/4#/sx Flocele. Slurry weight - 14.8#/gal w/a slurry volume of 1.32 cu ft/sx, and a water ratio of 6.3 gal/sx. Use one rubber plug to displace cement. Estimated top of cement @ 3000'.

Run temperature survey and cement <u>Second Stage</u> through squeeze holes (determined by temperature survey) w/325 sx Howco Lite w/15#/sx Salt, 5#/sx Gilsonite, and 1/4#/sx Flocele Slurry weight - 12.4#/gal w/a slurry volume of 1.99 cu ft/sx and a water ratio of 10.63 gal/sx. Tail-in w/100 sx Class C w/2% CaCl. Slurry weight - 14.8#/gal w/a slurry volume of 1.32 cu ft/sx and a water ratio of 6.3 gal/sx. Use one rubber plug to displace cement. Estimated top of cement @ surface (circ).

- 8.b Nipple up and install BOP. Test casing to 1500# psi for 30 minutes after WOC 18 hrs and drill out cement.
- 9.b Drill 7-7/8" hole from 4500' to TD @ 5700' using a Fresh Water Mud System. Mud weight (8.6#/gal), viscosity (32-35 sec), and water loss (12-15 cc).
- 10.b A drill stem test is anticipated in the following zone:
  Delaware 4870'. DST flow periods and shut-in times
  will be determined on location. A mud logging unit
  will be on location at 4500' to assist in evaluating
  samples and shows for exact drill stem test intervals.
  Run Litho Density-Compensated Neutron-Gamma Ray Log, &
  Dual Induction Log.
- 11.b If production is indicated by DST and logs, run 5-1/2" casing as follows:

FROM TO FOOTAGE DESCRIPTION 5700' (5700') 5-1/2", 15.5#, K-55, ST&C

Use a float shoe on the bottom of shoe joint and a float collar on top of the shoe joint. Use Halliburton Weld A to threadlock both the float shoe and float collar. Place a stop ring 3' above float shoe, then install a centralizer directly above float shoe. Any joints which have been blasted and ruffcoated should be spaced out across both or either of the two potential pay zones (as indicated by test or logs). Use 10-15 centralizers. All centralizers will be placed on ruffcoated joints. Set float shoe at 5700'.

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- Precede cement w/500 gal Super Flush 102. Cement 5-1/2" w/250 sxs Class C w/.5% Halad-322 and 3#/sx KCL. Slurry weight 14.8#/gal with a slurry volume of 1.36 cu ft/sx and a water ratio of 6.53 gal/sx. Use one rubber plug to displace cement to float collar (5660'). Estimated top of cement 4000', (500' above 8-5/8" casing shoe).
- 11.a/
  13.b Perforations, acid job, and additional stimulation to be determined after drilling and prior to completion.

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