

## DRILLING PROCEDURE

Aminoil USA, Inc. Federal 30 #1

### LOCATION:

760' FEL & 1980' FSL, Section 30, T-19S, R-33E.

### CONDUCTOR CASING:

40'  $\pm$  of 20" conductor casing will be set with a rathole machine and cemented to the surface with ready mix.

### SURFACE HOLE:

A 17-1/2" open hole will be drilled to 1300'  $\pm$  (T/Salt) and 13-3/8" 48#/ft. H-40 casing run to total depth. The surface casing will be cemented with approximately 750 sx Hallco "Light" + 5# Gilsonite/sx + 2% calcium chloride/sx + 1/4#/sx Flocele. Tail in with 200 sacks of class "C" + 2% calcium chloride/sx + 1/4#/sx Flocele. Cement will be circulated to surface. Total WOC time is 12 hours.

### NIPPLING UP 13-3/8" CASING:

After waiting 4 hours "nipping up" procedures may begin. A 13-3/8" SW 3000# WP x 12" 3000# WP casinghead will be welded in place. A set of hydraulic operated pipe and blind rams will then be installed and tested to 1000 psi with the rig pump. The results of this test will be reported in the daily driller's log.

### INTERMEDIATE HOLE:

A 12-1/4" open hole will then be drilled to approximately 5500' (T/Delaware). 9-5/8" casing will be run to total depth and cemented in two stages. First Stage will consist of approximately 300 sx of Hallco "Light" plus 200 sx of class "C" cement. After bumping plug we will circulate approximately 6 hours before pumping second stage. Second Stage cement will consist of approximately 2100 sx Hallco "Light" plus 400 sx 50/50 class "C" - Pozmix "A". The above amounts should be enough to circulate cement to surface.

Total WOC time for this casing string will be 12 hours.

### NIPPLING UP THE 9-5/8" CASING:

After waiting 4 hours, "nipping up" procedures may begin. The 13-3/8" casinghead will be removed and a 9-5/8" SW 5000# WP x 10" 5000# WP casinghead installed or, a 13-3/8" x 9-5/8" casing spool will be installed.