

**RIGLESS PLUGGING PROCEDURE FOR PLUGGING RED MOUNTAIN  
GEO-ENGINEERING WELLS**

1. Move on location with cement pump truck and cement bulk truck.
2. Hookup to wellhead and or casing with swage and valve.
3. Pump into casing with pump truck using H<sub>2</sub>O and establish rate into perfs. If rate can be established into casing without H<sub>2</sub>O coming up around outside of casing (indication of casing leak) proceed by pumping 10 sacks of 15.6# class B neat cement into perf and bullhead cement from perfs to surface.
- 3A. If H<sub>2</sub>O is observed coming up around outside of casing during step #3 while trying to establish rate into perfs., cease pumping into casing. Pull off swage, T.I.H. with slick line to perfs, hook up to slick line with pump truck and pump cement (15.6# class B neat cement) from perfs to surface. Once casing is filled to surface, T.O.H. with slick line, N.U. swage and valve and reestablish pumping cement into casing until cement is circulated out of holes in casing to surface on outside of casing. Pull off swage, top off casing and rig down.

**PLUGGING PROCEDURE FOR PLUGGING RED MOUNTAIN  
GEO-ENGINEERING REQUIRING RIG**

1. M.I.R.U., N.U. to wellhead and or casing.
2. T.I.H. with notched collar on the end of work string and clean out inside of casing to T.D.
3. Hook up to work string with pump and mix and pump 15.6# class B neat cement into casing and fill to surface.
4. T.O.H. with work string and notched collar, N.U. swage and valve to casing and attempt to pump 5 to 10 sacks of 15.6# class B neat cement into perfs. If leak is detected in casing while pumping cement in perfs, cement will be squeezed out of holes in casing to surface.
5. Top off casing with cement and rig down.

BEFORE EXAMINER CATANACH	
OIL CONSERVATION DIVISION	
OCD	EXHIBIT NO. <u>4</u>
CASE NO:	<u>11813</u>