

11,000' - 12,200'+

<u>Mud Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate</u>	<u>Chlorides</u>
10.0 - 10.2#	35-38	No Control	Minimum 50,000 ppm

Displace hole with 10# brine water.

12,200' - 13,600'+

<u>Mud Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate</u>
10.0 - 10.2#	35-38	8-10 cc

Raise funnel viscosities to 35-38 sec/1000 cc and lower filtrate to 8 to 10 cc prior to drilling Morrow pay to TD (Prehydrated gel, XC polymer, Drispac).

DRILLING HAZARDS

- 1) Tight hole conditions of the red beds 2000' to 3600' - the oil additions should eliminate this, but there have been holes lost because of this problem.
- 2) Differential sticking - possible from 7,400 to 9,000' (Bone Spring), this can be eliminated by keeping pipe moving at all times on connections and surveys.
- 3) Severe seepage losses - from 7,400' to TD, paper additions can control this and mica or fibrous LCM can control large or severe seepage.
- 4) Watch for possible gas kick in the Wolfcamp.
- 5) See possible sluffing shale Atoka 12,200', Barnett Shale 13,300'.
- 6) Watch tripping speeds going in hole to prevent breaking down weak formations (Bone Spring gradient 10.5 ppg).