

6. Types and Characteristics of the Proposed Mud System:

The well will be drilled to TD with a combination brine, cut brine, and polymer/KCl mud system. The applicable depths and properties of this system are as follows:

<u>Depth</u>	<u>Type</u>	<u>Weight (ppg)</u>	<u>Viscosity (sec)</u>	<u>Waterloss (cc)</u>
0- 500'	Fresh Water (spud)	8.5	40-45	NC
500- 1400'	Fresh Water	8.4	28	NC
1400- 3300'	Brine Water	10.0	30	NC
3300- 5350'	Fresh Water	8.4	28	NC
5350- 8400'	Fresh Water Gel	8.4-8.5	30-32	50-60
8400- 9200'	Cut Brine (60,000 ppm Cl)	9.2-9.5	30	NC
9200-12800'	Cut Brine/Polymer	9.2-9.5	32-34	40
12800-13500'	Brine/Polymer	10.2-10.5	34-38	10
13500- TD	Brine/Polymer/KCl	10.2-10.5	34-38	10

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.
- C. An electronic pit-volume-totalizer system will be used continuously below 9200' to monitor the mud and pump system. The drilling fluids system will also be visually monitored at all times.
- D. A mud logging unit will be continuously monitoring drilling penetration rate and hydrocarbon shows from 3300' to TD.
- E. A mud-gas separator, vacuum degasser and remote drilling choke will be operational at all times below 12800' to facilitate handling a gas kick or gas cutting of the mud until the mud weight can be increased.

8. Logging, Testing and Coring Program:

- A. Drillstem tests will be run on the basis of drilling shows. At least one test is anticipated.
- B. The electric logging program will consist of a GR/AIT 8400' to 5350', GR-Dual Laterolog-MSFL TD-8400', GR-Sonic from TD to 5350' and GR-Compensated Neutron-Density from TD to surface. Selected SW cores will be taken in zones of interest.