The above cement volumes are approximate and were calculated under the assumption that a gauge hole will be achieved. Actual cement volumes may vary due to variations in the actual hole gauge and will be determined by running a caliper log on the drilled hole.

All waiting on cement (WOC) times will be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

5. **MUD PROGRAM** - Visual Monitoring

Interval	Mud Type	Weight	Viscosity	Fluid Loss
0 – 400'	FW Gel/Paper	8.6-9.6	32-36	No Control
400'-4900'	FW going to Brine	8.7-10.2	32-34	No Control
4900'-11500'	Cut Brine W/Sweeps	8.9-9.4	28	No Control
11500'-13300'	Salt Gel/Starch/Drispac	9.5-10	34-38	<12

Sufficient mud material(s) to maintain mud properties, control lost circulation and contain a blowout will be available at the well site during drilling operations.

6. **EVALUATION PROGRAM**

Logs: LDT/CNL; HALS GR; BHC SONIC TD to 4,950' with GR/N to Surface.

DST's: As Warranted.

Cores: Possible sidewall over Morrow & Mississipian.

*Pull Gamma Ray Log Back to Surface

The evaluation program may change at the discretion of the well site geologist.

7. **ABNORMAL CONDITIONS**

No abnormal temperatures or pressures are anticipated. No H2S has been encountered in or known to exist from previous wells drilled to similar depths in the general area.