

**POINT 5: MUD PROGRAM**

<u>DEPTH</u>	<u>MUD TYPE</u>	<u>WEIGHT</u>	<u>FV</u>	<u>PV</u>	<u>YP</u>	<u>FL</u>	<u>Ph</u>
0' - 450'	FW Spud Mud	8.5-9.2	35-40	NC	NC	NC	NC
450' - 2700'	BW	9.6-10.0	29-30	NC	NC	NC	NC
2700' - 6650'	FW Mud	8.6-8.8	34-40	10-14	12-18	<5	9-9.5

**POINT 6: TECHNICAL STAGES OF OPERATION****A) TESTING**

Drill stem tests are not anticipated.

**B) LOGGING**

GR-CNL-LDT, GR-DIL-MSFL run from TD (6650') to 2700', GR-Sonic run from TD (6650') to surface. FMI over Delaware Sands of interest  $\pm 500'$  total.

**C) CORING**

Rotary Sidewall Cores (25) are anticipated.

**D) CEMENT**

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FT OF FILL</u>	<u>TYPE</u>	<u>GALS/SX</u>	<u>PPG</u>	<u>FT/SX</u>
Surface	370 (100% excess circ to surface)	450	Class "C" with 2% CaCl <sub>2</sub> and 1/4 ppg Cello-Flake	6.3	14.8	1.32
Intermediate	975 (100% excess circ to surface)	2700	Class "C" with Salt	6.3	14.8	1.32
Production	695 (25% excess)	4200	Class "C" w/additives to control water loss	10.6	13.2	1.92

**E) DIRECTIONAL DRILLING**

No directional services anticipated.

**POINT 7: ANTICIPATED RESERVOIR CONDITIONS**

Normal pressures are anticipated throughout Delaware section.

Est BHP 2000-2400 psi, Est BHT 112 max

Lost circulation is not anticipated in this area.

H<sub>2</sub>S in this area is less than 100 ppm.

Deviation can be a problem between 500' and 1000' and will be monitored closely.