

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' - 600'	FW Spud Mud	8.4 - 9.0	32-38	NC	NC	NC	10.0
600' - 3800'	BW	9.8 - 10.0	28	NC	NC	NC	9.5-10.5
3800' - 7000'	FW Mud	8.4	27	NC	NC	NC	9.5-10.5
7000' - 7900'	FW Mud	8.6 - 8.8	32-34	1:1	1:1	<15cc	9.5-10.5

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

DST - Olds Sand potential @ $\pm 3850'$.

B) LOGGING

GR-CNL-LDT and GR-PIL-SFL from TD to intermediate casing.
GR-CNL intermediate casing to surface.

C) CORING

Sidewall coring.

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>FT³/SX</u>
SURFACE						
Lead 0-229'	175 (100% excess circ to surface)	229'	Class "C" + 6% Gel + 3% CaCl ₂ + 1/4#/sx Celloseal	9.61	12.81	1.83
Tail 229-600'	250 (100% excess circ to surface)	371'	Class "C" + 2% CaCl ₂	6.32	14.82	1.34
INTERMEDIATE						
Lead 0-3488'	1720 (100% excess circ to surface)	3488'	Class "C" + 6% Gel + 10#/sx Salt + 1/4#/sx Celloseal	9.92	13.02	1.90
Tail 3488-3800'	250 (100% excess circ to surface)	312'	Class "C" + 1% CaCl ₂	6.32	14.81	1.33
PRODUCTION						
STAGE #1						
7900-6000'	290 (50% excess to DV tool)	1900'	Class "H" + 8#/sx CSE + .60% CF-14 + .35% Thrifty Lite	7.90	14.04	1.61
STAGE #2						
LEAD						
3400-4000'	70 (50% excess tie back to int csg)	600'	Class "C" + .6% Gel + 5#/sx Salt + .25#/sx Celloseal	9.92	12.85	1.87
6000-4000'	305 (50% excess tie back to int csg)	2000'	Class "H" + 8#/sx CSE + .4% CF-14 + .35% Thrifty Lite	7.90	14.05	1.60