POINT 5: MUD PROGRAM

<u>DEPTH</u>	MUD TYPE	WEIGHT	FV	_PV_	<u> YP</u>	FL	<u>Ph</u>	
0' - 600'	FW Spud Mud	8.4 - 9.0	32-38	NC	NC	NC	10.0	
600' - 3,875'	BW	10.0 -10.2	28-30	NC	NC	NC	10.0-10.5	
3,875' - 7,750'	FW Mud	8.4 - 8.8	28-32	4-2	2-2	NC	9.5-10.5	
7,750' -11,200'	FW - BW	8.8 -11.2	32-35	8-6	4-2	NC-20	10.0-10.5	

### POINT 6: TECHNICAL STAGES OF OPERATION

## A) TESTING

None anticipated.

# B) LOGGING

GR-CNL-LDT and GR-Phasor-DIL-SFL from TD to 8-5/8" casing. GR-CNL through 8-5/8" casing to surface.

## C) CONVENTIONAL CORING

None anticipated.

# D) CEMENT

INTERVAL	AMOUNT SXS	FT OF FILL	ТҮРЕ	GALS/SX	PPG	FT <sup>3</sup> /SX
SURFACE						
Lead 0-300'	165 (100% excess circ to surface)	300′	Class "C" + 6% Gel + 2% CaCl2 + 1/4#/sk Cello-Seal	10.65	12.50	1.96
Tail 300-600'	235 (100% excess circ to surface)	300′	Class MCM + 2% CaCl2	6.32	14.80	1.34
INTERMEDIATE						
Lead 0-3375'	675 (100% excess circ to surface)	3375′	50/50 Poz (C) + 10% Gel + 5% Salt + 1/4#/sk Cello-Seal		11.90	2.37
Tail 3375-3875′	215 (100% excess circ to surface)	500′	Class "C"	6.32	14.80	1.32
PRODUCTION	STAGE #1					
Lead 7000-11,200'	915 (100% excess tie back to DV Tool)	42001	Class MHM + 8#/sk CSE + .75% CF-14 + .2% Thrifty Lit + .2% Diacel LWL	7.90 e	14.03	1.61
	STAGE #2					
Lead 3625-6500'	405 (100% excess tie back to int csg)	2875*	50/50 Pox (C) + 5% Salt + 1/4#/sx Cello-Seal + 10% Gel	13.51	11.90	2.37
Tail 6500-7000'	115 (100% excess tie back to int csg)	500'	Class "H"	5.19	15.63	1.17