

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' - 500'	FW Spud Mud	8.5 - 9.2	45-35	NC	NC	NC	10.0
350' - 6900'	BW	9.8 -10.2	28-30	NC	NC	NC	9.5-10.5
6900' - 7200	BW/ Starch	9.8 -10.2	28-32	NC	NC	<100	9.5-10.5
7200-7570	BW/Gel/Starch	9.8-10.2	38-42	4	8	<100	9.5-10.5

**Will increase vis for logging purposes only.*

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

None anticipated.

B) LOGGING

GR-CNL-LDT-LLD from TD to Base of Salt (+/- 3249'). Run GR-CNL from Base of Salt to surface.

C) CONVENTIONAL CORING

None 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>FT³/SX</u>
SURFACE: Circulate cement to surface.						
Lead 0-200 (100% excess)	40	200	Permian Basin filler 1 + 1/ 4# Celloflake	17.65	11.4	2.85
Tail 300-500' (100% excess)	130	300	Permian Basin Critical Zone	8.37	13.5	1.63

PRODUCTION: Reverse Circulate with Zone Seal Cement.

<u>INTERVAL</u>	<u>AMOUNT SXS</u>	<u>FILL</u>	<u>TYPE</u>	<u>GAL/SX</u>	<u>PPG</u>	<u>FT³/SX</u>	<u>NITROGEN</u>	<u>COMPRESSIVE STRENGTH</u>
Lead 0-4500' (10% excess)	390	4500'	Premium Plus + 1% Zone Sealant 2000	6.32*	11.9*	2.20*	250/100 scf/bbl	1200
Tail 4500-7570' (10% excess)	360	3070'	Premium Plus + 1% Zone Sealant 2000	6.32*	12.5*	1.65*	250/100 scf/bbl	2500
CAP 0-300'	45	300'	Premium Plus + 2% CaCl ₂	6.32	14.80	1.32	--	3650

* Average for that interval