CASING AND CEMENT PROGRAM:

The cementing program is detailed on Form 3160-3. All casing will be new.

Sufrace Casing: 14 3/4" hole, 11 3/4", 42#, WC-50, STC, set @ 600'.

Intermediate Casing: 11" hole, 0' to 2200': 8 5/8", 24#, WC-50, STC 2200' to 3550': 8 5/8", 32#, WC-50, LTC, set @ 3550'

Production Casing: 7 7/8" hole, 0' to 1000': 5 1/2", 17#, WC-70, LTC 1000' to 9200': 5 1/2", 17#, WC-50, LTC, set @ 9200'.

Centralizer Program:

Surface Casing - Centralize the bottom 3 joints and every 4th to surface.

Intermediate Casing - Centralize the bottom 3 joints.

Production Casing - Centralize every other joint from TD to 5100'.

MUD PROGRAM:

Depth	Туре	<u>Weight</u>	Viscosity
0'-600'	Fresh Water	8.4	28
600'-3550'	Brine	10.0	29
3550'-9200'	Fresh Water/Starch	8.4-8.8	29-40

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LOGGING, TESTING:

GR-CAL-CNL-LDT, GR-CAL-DLL-MSFL, and GR-CAL-BHC surveys will be run. A two-man Mud Logging Unit will be used from 3550' to 9200'. A drill stem test may be conducted in the Abo, if needed. No cores will be taken.