

SUPPLEMENTAL DRILLING DATA

MARSH OPERATING COMPANY
#1-31 FEDERAL
NE/4SE/4 of Sec. 31, T-7S, R-25E
Chaves County, New Mexico
NM-68779

The following items supplement Form 9-331C in accordance with instruction contained in NTL-6.

1. SURFACE FORMATION: ~~San Andres~~ *Quaternary Alluvium* *fw*
2. ESTIMATED TOPS OF GEOLOGICAL MARKERS:

San Andres-	300'
Glorieta -	1351'
Yeso -	1395'
Tubb -	2871'
Abo -	3521'
3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATION:

Fresh Water	- In surface formation above approximately 600'
Gas	- In Abo formation below 3725'
4. PROPOSED CASING PROGRAM: See Form 9-331C
5. PRESSURE CONTROL EQUIPMENT: Blowout preventer will consist of at least a double-ram blowout preventer rated to 3000#WP. A sketch of the BOP is attached. *Used as 2M system.* *fw*
6. CIRCULATING MEDIUM:

Fresh Water spud mud from surface to 900'. From 900' to 3400' drill with Brine Water. From 3,400' to TD drill with Salt Gel Brine Mud.
7. AUXILIARY EQUIPMENT: Full-opening drill string safety valve fit for the drill string in use, will be kept on the rig floor at all times.
8. TESTING, LOGGING AND CORING PROGRAM:

Samples:	Catch samples from surface to TD.
DST'S:	None
Logging:	Dual Lateral/Micro-SFL w/Gamma Ray & Caliper TD to surface. Compensated Neutron/Formation Density w/Gamma Ray - TD to surface
Coring:	None