

Marathon Oil Company
Federal IBD Gas Com Well No. 2
Additional Information
to Comply with NTL-6

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers

San Andres - 410
Base of Leonard - 5540
Wolfcamp - 5720
Cisco - 6850

3. Estimated Depths of Anticipated Water, Oil, or Gas Bearing Formations

Ogallala (water) - 70'
Upper Penn (Gas) - 7100'

4. Proposed Casing Program

See attached application

5. Blowout Equipment Specifications

- 5000 psi working pressure with 10" API flange connections.
 - Blind rams, pipe rams, and choke manifold will be tested to 5000 psi.
 - Hydril will be tested to 3500 psi.
 - Will have both manual and remote controls on pipe and blind rams.
 - Pipe rams will be operated daily and blind rams will be operated every time drill pipe is tripped out of the hole.
- (See attached schematic)

6. Proposed Mud Program

0' - 150' Native mud w/lime and fresh gel
Mud wt. 8.8 - 9.2 ppg
150' - 2000' Gel - lime slurry
Mud wt. 8.4 - 9.0 ppg
2000' - 6800' Fresh water with native solids
Mud wt. 8.0 - 9.2 ppg Viscosity: 36 - 38 sec.
6800' - 7500' Salt gel with drispac
Mud wt. 9.0 - 9.2 ppg Viscosity: 36 - 38 sec. Water loss: 6 - 8 cc

7. Auxilliary Equipment

A stabbing valve will be kept on the floor to be used when the Kelly is not in the string.

8. Testing, Logging, and Coring Programs

A. No cores are anticipated.

B. The logging program is as follows:

Compensated Neutron/Compensated Density - TD - 150'
Gamma Ray/Caliper - TD - Surface
Gamma Ray/Casing Collar/Cement Bond Log - TD - Surface

C. Possible Drill Stem Tests:

Upper Penn Formation