

MARATHON OIL COMPANY
MARTINEZ-FEDERAL "31" WELL NO. 1
Additional Information
Comply with NTL-6

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers

810' Tanzo Anhydrite
1050 Yates
1950 Queen
2700 San Andres

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

| | |
|---------------------------------|--------|
| Ogallala (water) | 100' |
| Wolfcamp - Canyon (Oil and Gas) | 10,000 |
| Strawn (Gas) | 10,400 |
| Morrow (Gas) | 11,300 |

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 out of the hole.
(See attached schematic)

6. Proposed Mud Program

0' - 400' Fresh water containing gel and lime.
Mud wt.: 8.8 - 10.0 ppg
Viscosity: 34 - 36 sec.

400' - 3,100' Brine water with paper for fluid loss.
Mud wt.: 9.5 - 10.2 ppg
Viscosity: 28 - 29 sec.

3,100' - 4,500' Fresh water with brine addition beginning at 8,400' for hole stability.
Mud wt.: 9.6 - 10.0 ppg
Viscosity: 32 - 34 sec.

7. Auxiliary 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 - 900 |
| Gamma Ray/Caliper | TD - Surface |
| Dual Induction/Spherically Focused Log | TD - 900 |
| BHC Sonic/Gamma Ray | TD - 900 |
| Gamma Ray/Casing Collar/Cement Bond Log | TD - Surface |