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APPLICATION TO DRILL

Brazos Petroleum Company Yates '18' Federal No. 1 Section 18, T-9-S, R-38-E Lea County, New Mexico

In response to questions asked under Section II B of Bulletin NTL-6, the following answers are provided for your consideration:

- 1. Location: 1650' FSL & 990' FEL, Section 18, T-9-S, R-38-E, Lea County, New Mexico
- 2. Elevation Above Sea Level: 3963'
- 3. Geologic Name of Surface Formation: Alluvium
- 4. <u>Drilling Tools and Associated Equipment</u>: Conventional rotary drilling rig using mud for the circulation medium
- 5. Proposed Drilling Depth: 5200'±
- <u>Estimated Geological Marker Tops</u>: Yates 2920'; San Andres 4200'; Pi Marker 4760'; San Andres porosity 4920'.
- 7. <u>Mineral Bearing Formation</u>: Water bearing none; gas bearing none; oil bearing San Andres at 4920'.
- Casing Program: (A) Surface casing 8 5/8" 24#/ft K-55 new casing. (B) Production casing 4 1/2" 10.5#/ft K-55 new casing.
- 9. Setting Depth of Casing and Cement for Same: (A) 8 5/8" casing set at 2350'[±]. Cement will be circulated to surface using 500 sacks of Halliburton Lite with 3# gilsonite/sack, 1/4# flocele/sack, 0.2% CaCl₂; followed by 200 sacks Class 'C', 0.2% CaCl₂. (B) 4 1/2" casing set at 5200'[±] and will be cemented with 300 sacks Class 'C', 50-50 pozmix, 8# salt/sack, 3% CFR-2, 1/4# flocele/sack.
- 10. Pressure Control Equipment: Blowout preventers will be installed on the surface casing. They will be 10" API Series 900 dual preventers adapted for the drilling contractor's 4 1/2" and 5 1/2" drill pipe. They will be capable of closing off on all open areas. The blowout preventers will be hydraulically actuated by an 80-gallon Payne accumulator. The blowout preventers will be tested to 2000 psig after they are installed on the surface casing, prior to drilling out and each time they are removed or rearranged on the wellhead.

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- 11. Proposed Circulation Medium: Mud will be used for the circulating medium for all depths in this well. The following mud properties will be maintained: Viscosity sufficient to clean hole; weight 9.5-10.0 ppg; viscosity through pay zone 45 to 50 for good samples.
- 12. Testing, Logging and Coring Programs: (A) Testing All testing will be commenced after the well is drilled and casing has been set and cemented. (B) Logging At total depth the following logs will be run: 0 5200'± sidewall neutron porosity with gamma ray and caliper, dual laterolog, micro-SFL. (C) No coring.
- 13. <u>Potential Hazards</u>: No abnormal pressure or temperature zones are anticipated. Hydrogen sulfide gas is not expected to be a problem; however, the drilling rig will be so situated as to allow all gas vapors to be expelled away from all personnel gathering sites and engine exhausts.
- 14. <u>Anticipated Starting Date and Duration of Operations</u>: Commence November 10, 1980. Three weeks to completion on November 31, 1980.
- 15. Other Facets of Operation: After running 4 1/2" casing, cased hole gamma ray collar correlation logs will be run from total depth to 4200'[±]. The San Andres porosity pay will be perforated and acidized. The well will then be swab tested and a pumping unit will be installed to potential and produce the well.