APPLICATION FOR DRILLING

TMBR/SHARP DRILLING. INC. Johnson Federal, Well No. 1 1650' FNL & 2100' FEL, Sec. 33-T9S-R34E Lea County, New Mexico Lease No.: NM-82935 (Exploratory Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well, TMBR/Sharp Drilling, Inc. submits the following items of pertinent information in accordance with BLM requirements:

- The geologic surface formation is recent Permian with quaternary alluvium and 1. other surficial deposits.
- The estimated tops of geologic markers are as follows: 2.

Rustler Yates San Andres Glorieta Clearfork Wolfcamp Upper Penn. Bough "C"	2150' 2754' 4431' 5432' 6930' 8940' 9544' 9783'	Strawn Morrow Lower Miss. Woodford Devonian T.D.	10,744' 11,739' 12,218' 12,700' 12,800' 12,900'
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The estimated depths at which water, oil or gas formations are anticipated to be 3. encountered:

Water: Random fresh water sands from surface to - 200'+/-.

Possible in the San Andres below 4431', Bough "C" below 9783', and the Oil: Devonian below 12,800'.

None expected. Gas:

- Proposed Casing Program: See Form 3160-3. 4.
- Proposed Control Equipment: See Form 3160-3 and Exhibit "E". 5.
- Mud Program: See Form 3160-3. 6.
- Auxiliary Equipment: Blowout Preventer, gas detector, Kelly cock. 7.
- Testing, Logging, and Coring Program: 8.

Drill Stem Tests: None unless needed. Logging: T.D. to surface: GR-CNL-LDT, .

T.D. to intermediate casing: DLL-MSFL.

None planned. Coring:

- No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase 9. the mud weight. Estimated BHP = 5100 psi (evac.) with temperature = 180°.
- H₂S: None expected. 10.
- Anticipated starting date: October 29, 1994. 11. Anticipated completion of drilling operations: Approximately 45 days.