APPLICATION FOR DRILLING

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READ & STEVENS, INC. North Haystack Federal Well No. 1 1980' FNL & 2030' FWL, Sec. 26, T5S, R27E Chaves County, New Mexico Lease No.: NM 18821 (Exploratory Well)

O. C. D. ARTESIA, OFFICE

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Read & Stevens, Inc. submits the following items of pertinent information in accordance with USGS requirements:

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

San Andres	1200'	Cisco	5700 '
Glorietta	2900'	Mississippi	6400'
Tubb	3800'	Montoya	6500 '
Abo	4500'	Granite	6600
Wolfcamp	5250	Total depth	6700'

3. The estimated depth at which anticipated water, cil, or gas formations are expected to be encountered:

Water: Surface water between 100 to 300 feet.

- 0il: San Andres approximately 1200'. Montoya approximately 6500'.
- Gas: Abo approximately 4500!. Cisco approximately 5700!.
- 4. Proposed Casing Program: See Form 9-331C.
- 5. Pressure Control Equipment: See Form 9-331C and Exhibit "E".
- 6. Mud Program: See Form 9-331C.
- 7. Auxiliary Equipment: Blowout preventer, gas detector, kelly cock, pit level monitor, flow sensors and stabbing valve.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: One possible in each of the following: Cisco 5700' - 5800' Montoya 6500' - 6550' Logging: Gamma Ray Surface to T.D. FDC/CNL: Int. Csg. to T.D. Dual Ind. Laterolog Int. Csg. to T.D.

Coring: None.

- 9. No abnormal pressures or temperatures are anticipated. In the event abnormal pressures are encountered the proposed mud program will be modified to increase the mud weight.
- 10. Anticipated starting date: September 15, 1980. Anticipated completion of drilling operations: Approx.30 days.