

# APPLICATION FOR DRILLING

SNOW OIL & GAS. INC.  
Duffield Federal Com.. Well No. 2  
1880' FNL & 2230' FEL. SEC. 21-T16S-R27E  
Eddy County, New Mexico  
Lease No.: NM-76988  
(Development Well)

In conjunction with Form 3160-3, Application for Permit to Drill subject well. Bran Oil Corporation submits the following items of pertinent information in accordance with BLM requirements:

1. The geologic surface formation is recent Permian with quaternary alluvium and other surficial deposits.

2. The estimated tops of geologic markers are as follows:

Grayburg	1100'	Penn	6700'
San Andres	2300'	Morrow Sand	8500'
Wolfcamp	6080'	T.D.	8700'

3. The estimated depths at which water, oil or gas formations are anticipated to be encountered:

Water: Possible surface water between 100-200'.  
Possible sulfur water flow at 560'.

Oil: Possible in the Grayburg below 1100' and the San Andres below 4892'.

Gas: Possible in the Morrow below 8500'.

4. Proposed Casing Program: See Form 3160-3.

5. Proposed Control Equipment: See Form 3160-3 and Exhibit "E".

6. Mud Program: See Form 3160-3.

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 the Morrow at 8600'.

Logging: T.D. to surface casing: Gamma Ray CNL-LTD and DIL-SFL.

Coring: None planned.

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. Estimated BHP = 3680 psi with a temperature of 124°.

10. H<sub>2</sub>S: None encountered in previous wells drilled in the area.

10. Anticipated starting date: December 1, 1993.  
Anticipated completion of drilling operations: Approximately 4 weeks.