

APPLICATION FOR DRILLING

DIAMONDBACK PETROLEUM, INC.
Teresa A. Federal, Well No. 1
2970' FSL & 990' FWL, Sec. 5-T16S-R30E
Eddy County, New Mexico
Lease No.: NM-18226
(Exploratory Well)

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Diamondback Petroleum, Inc. submits the following items of pertinent information in accordance with MMS/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:

Rustler	1020'	Premier	2670'
Yates	1220'	San Andres	2705'
7-Rivers	1440'	T. D.	3300'
Queen	1990'		
3. The estimated depth at which anticipated water, oil or gas formations are expected to be encountered:

Water: Water in random sands from surface to 300' \pm .

Oil: Premier/Grayburg at approximately 2670'.
San Andres at approximately 2710'.

Gas: None expected.
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: None planned.

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: April 27, 1983.
Anticipated completion of drilling operations: Approximately 30 days.