

APPLICATION FOR DRILLING  
HARVEY E. YATES COMPANY  
Young Deep Unit #1  
Sec. 10, T-18S, R-32E  
Lea County, N. M.

In conjunction with Form 9-331C, Application for Permit to Drill the subject well in Section 10, Township 18 South, Range 32 East, Lea County, New Mexico, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with U. S. G. S. requirements;

1. The geologic surface formation is quaternary alluvium and bolson deposits and other surficial deposits.

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

Rustler	1185'	Third Sand	9220'
Yates	2660'	Wolfcamp	9410'
Queen	3800'	Cisco	11490'
Bone Springs	6050'	Strawn	11590'
First Sand	7880'	Atoka	11950'
Second Sand	8500'	Morrow	12275'
Top Reef	8980'	Total Depth	12900'
Base Reef	9090'		

3. We do not anticipate finding water but have listed the formations in which we anticipate finding oil or gas.

Queen	Bone Springs	Strawn	Morrow
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4. Proposed casing program: See Form 9-331C.

5. Pressure control equipment: See Exhibit C.

6. Mud program: See Form 9-331C.

7. Auxiliary equipment: Blowout preventer.

8. Testing, logging and coring programs: Possible DST's in the Queen, Bone Springs, Strawn and Morrow. One 60' core is planned in the Bone Springs Reef. Planned logs are CNL-FDC, DLL-MSFL.

9. Nor abnormal pressures or temperatures are anticipated.

10. Anticipated starting date: As soon as possible after approval but no later than January 20, 1980.