

APPLICATION FOR DRILLING

HARVEY E. YATES COMPANY
Young Deep Unit #9
Sec. 3, T-18S, R-32E
Lea County, NM

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SEP 2 1 07 PM '83

BUREAU OF LAND MANAGEMENT
RUSSELL SPRING, TEXAS

In conjunction with Form 9-331C, Application for Permit to Drill the Subject Well in Section 3, 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 quarternary alluvium and bolson deposits and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

Rustler	1200'	Delaware Sand	5100'
Cowden	2290'	T/Bone Spring	6100'
Base of Salt	2460'	T/1st B. Sd	7775'
Yates "A"	2735'	B/1st B. Sd	7930'
Seven Rivers	3100'	T/2nd B. Sd	8400'
Bowers	3565'	B/2nd B. Sd	8960'
Queen	3800'	T/3rd B. Sd	9150'
Penrose	4020'	Wolfcamp	9200'
Grayburg	4300'	TD	9600'

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

Bone Spring 8410'

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: Three possible DST's - all are in Bone Spring. We are not planning on doing any coring. Planned logs are Neutron-Densilog w/ Gamma Ray and Caliper, Dual Laterolog-Micro-SFL w/ Gamma Ray and Caliper.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting Date: As soon as possible after approval.