

APPLICATION FOR DRILLING

Harvey E. Yates Company, Inc.
Amoco Federal #1
Chaves County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well in Section 1, Township 8 South, Range 30 East, Chaves County, New Mexico, Harvey E. Yates Company, Inc. 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 KB measurement:

Rustler Anhydrite	1204'
Yates	1705'
Seven Rivers	1877'
Bowers	2202'
Queen	2374'
San Andres	2845'
Pi Marker	3392'
P 1	3538'
P 2	3625'
P 3	3723'
Total Depth	3793'
3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water	- At approximately 100' or less
Oil	- San Andres at approximately 3625' to 3723'
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
8. Testing, logging and coring programs: Sidewall Neutron Density, Dual Laterolog RXO. Possible Drill Stem Test in San Andres. No coring is planned.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval, about April 1, 1977.