

APPLICATION TO DRILL

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Penrose Federal #5
Section 9, Unit "E", T22S-R37E
Lea County, New Mexico

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1. Location: 2175' FNL, & 600' FWL Section 9, T22S-R37E, Lea Co., New Mexico
2. Elevation Above Sea Level: 3410.6 GL
3. Geologic Name of Surface Formation: Quaternary Aeolian Deposits
4. Drilling Tools and Associated Equipment: Conventional rotary drilling rig using mud for the circulation medium.
5. Proposed Drilling Depth: 6200'
6. Estimated Geological Marker Tops:

Salado	1150'	Grayburg	3590'
Castille	1260'	San Andres	3815'
Base of Salt	2420'	Glorietta	5030'
Yates	2640'	Blaine Marker	5490'
7- R's	2815'	Tubb Marker	5990'
Queen	3420'		
7. Possible Mineral Bearing Formation:

Blaine	5490-5890'	Oil
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8. Casing Program:

Hole Size	Interval	OD Csg	Weight Thread Grade Condition
17 1/2"	0- 40	13 3/8"	Conductor 54.5#/ft.
11"	0- 1160	8 5/8"	24# 8r J-55 ST&C New
7 7/8"	0- 6200	5 1/2"	15.5# 8r J-55 ST&C New