

# APPLICATION TO DRILL

UNIT PETROLEUM COMPANY  
GOURLEY FEDERAL # 3  
UNIT "H" SECTION 28  
T22S-R28E EDDY CO. NM

In response to questions asked under Section II of Bulletin NTL-6 the following information on the above well is provided for your consideration.

1. Location: 1650' FNL & 810' FEL SEC. 28 T22S-R28E EDDY CO. NM
2. Elevation above Sea Level: 3063' GR.
3. Geologic name of surface formation: Quaternary Aeolian Deposits.
4. Drilling tools and associated equipment: Conventional rotary drilling rig using drilling mud as a circulating medium for solids removal from hole.
5. Proposed drilling depth: 12,750'
6. Estimated tops of geological markers:

Cherry Canyon	3550'	Strawn	11,100'
1st Bone Spring Sand	7050'	Atoka	11,450'
Wolfcamp	9550'	Morrow	11,950'
7. Possible mineral bearing formations:

Bone Spring	Oil	Strawn	Gas
Wolfcamp	Gas	Atoka	Gas
		Morrow	Gas
8. Casing program:

Hole size	Interval	OD of casing	Weight	Thread	Collar	Grade
25"	0-40'	20"	NA	NA	NA	Conductor
17½"	0-400'	13 3/8"	48#	8-R	ST&C	H-40
12½"	0-2650'	9 5/8"	36#	8-R	ST&C	J-55
8 3/4"	0-11,100'	7 5/8"	26.4	8-R	LT&C	HCP-110
			29.7			
6 1/4"	10,800-12,750'	4½" Liner	11.6#	8-R	LT&C	HCP-110