

Application For Drilling

Pogo Producing Company
WBR Federal No. 1
Lea County, New Mexico

In conjunction with permitting the captioned well for drilling in Section 13, T-22-S, R-32-E, Lea County, New Mexico, Pogo Producing Company submits the following information in accordance with U.S.G.S. (NTL-6) letter dated July 1, 1976:

1. The surface formation is Quaternary sand and gravel.
2. Estimated tops of geologic markers as follows:

Rustler Anhydrite -----	900'
Base of Salt -----	4460'
Delaware Limestone -----	4820'
Bell Canyon Sandstone -----	4865'
Cherry Canyon Marker -----	6010'
Brushy Canyon Sandstone -----	7115'
Bone Spring Limestone, Sandstone and Shale -----	8650'
Wolfcamp Shale and Limestone -----	12,060'
Strawn Limestone -----	13,570'
Atoka Clastics -----	13,700'
Atoka Bank -----	13,845'
Morrow Limestone -----	14,200'
Morrow Clastics -----	14,540'
Lower Marker Morrow -----	15,050'

3. The depths at which oil, gas or water are expected are:
6010', 8650', 12,060', 13,700' and 14,540'.

4. Casing program and cement:

All casing is new. See attached "Casing Design Data Sheet".

13 3/8": 48# H-40 @ 750' w/700 sxs Premium Plus w/2% CaCl_2 .

10 3/4": 40.50# K-55, 45.50# K-55 and 51# K-55 and N-80 @ 4850' w/1500 sxs Premium Plus Neat.

7 5/8": 26.40# N-80 and S-95 and 29.70# S-95 @ 12,150' w/2 stages of cement as follows: