

## APPLICATION FOR DRILLING

**BTA OIL PRODUCERS  
GRAMA -C-, 8817 JV-P, NO. 1  
1980' FSL & 660' FWL  
Sec. 21, T22S, R34E  
Lea County, New Mexico**

In conjunction with Form 3160-3, Application for Permit to Drill, BTA Oil Producers submits the following 10 items for pertinent information in accordance with BLM requirements:

1. The geologic surface formation is Quaternary.
2. The estimated top of geologic markers are as follows:

Anhydrite	1,775'	Strawn	11,825'
Yates	3,970'	Atoka	12,115'
Delaware Sand	5,200'	Morrow LS	12,395'
Bone Spring	8,485'	U. Morrow	13,105'
Wolfcamp	11,345'	L. Morrow	13,530'

3. The estimated depth at which anticipated water, oil or gas formations are expected to be encountered:

Wolfcamp	11,345'	Morrow	13,105'
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All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and furnished to the BLM, Division of Minerals. All oil and gas shows will be adequately tested for commercial possibilities and reported and protected.

4. Proposed Casing and Cementing Program:

<u>Casing Size</u>	<u>Setting From</u>	<u>Depth to</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>
20"	0	900'	94#	H40	STC
13-3/8"	0	2,200'	68#	K55	BTC
9-5/8"	0	4,000'	40#	K55	LTC
9-5/8"	4,000'	5,200'	40#	HCK55	LTC
7" <del>Liner</del>	0	11,700'	29#	P110/S95	LTC
5" Liner	11,300'	TD	18#	P110	STL *

Depending upon availability at the time that the casing is run, equivalent ~~or~~ ~~weights~~ weights and grades may be substituted.

\* STL = GRAHAM ATLAS BRADFORD THREAD (FLUSH JOINT)