

## APPLICATION FOR DRILLING

**BTA OIL PRODUCERS**  
**Gramma Ridge Fed., 8817JV-P, NO. 3**  
**660' FSL & 1100' FWL**  
**Sec. 9, 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:

Yates	3,742'
*Delaware	5,192'
*Bone Spring Carbonate	8,442'
Strawn Carbonate	11,832'
Upper Morrow Clastics	12,642'
*Upper Morrow "EO2" Sand	12,832'
*Middle Morrow "A" Sand	13,022'
*Middle Morrow "C" Sand	13,192'

3. The estimated depth at which anticipated water, oil or gas formations are expected to be encountered are noted with the \* above.

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, 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>
13-3/8 "	0	1,300'	68#	J55	BTC
9-5/8"	0	4,000'	40#	K55	LTC
9-5/8"	4,000'	5,300'	40#	HCK55	LTC
7"	0	11,700'	29#	P110/S95	LTC
5" Liner	11,300'	TD	18#	P110	STL