

## DRILLING PROGRAM

BTA OIL PRODUCERS  
Vaca Draw, 9418 JV-P, Well No. 1  
1980' FSL & 1980' FWL  
Sec. 10, T22S, R33E  
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 marker are as follows:

Bell Canyon	5,065'	Bone Spring	9,105'
Manzanita	6,300'	Bone Spring Sands	12,045'
Brushy Canyon	7,520'		

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

Brushy Canyon	7,520'	Bone Spring Sands	12,045'
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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 protected.

4. Proposed Casing and Cementing program:

Hole Size	Casing Size	Setting From	Depth to	Weight	Grade	Joint
17-1/2"	13-3/8"	0	700'	54.5#	J55	STC
11"	8-5/8"	0	4,000'	32.0#	J55	STC
11"	8-5/8"	4,000'	5,000'	32.0#	HCK55	STC
7-7/8"	5-1/2"	0	12,500'	17.0#	P110	LTC

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

13-3/8" casing will be cemented with 750 sx Class "C" cement containing 2% CaCl to circulate to the surface.

8-5/8" casing will be cemented with sufficient light cement, tailed in with 400 sx Class "C", to circulate to the surface.

5-1/2" casing will be cemented back to  $\pm 500'$  above the bottom of the 8-5/8" casing.

Note: All casing strings will be pressure tested to 0.22 psi/ft. of setting depth or 1500 psi (whichever is greater) after cementing and prior to drillout.