

## APPLICATION FOR DRILLING

MESA PETROLEUM CO.  
Nash Unit Well No. 7  
685' FNL & 1295' FWL of Section 18 (surface location)  
1315' FSL & 1320' FWL of Section 7 (bottomhole location)  
T23S, R30E  
Eddy County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Mesa Petroleum Co., submits the following items of pertinent information in accordance with U.S.G.S. requirements.

Due to potash mining in the area, this well will be directionally drilled to reach the objective Morrow pay in the SW quarter of Section 7, T23S, R30E. The surface location will be 685' FNL & 1295' FWL of Section 18, T23S, R30E. Plans are to vertically drill to approximately 7000', gradually build angle to a total of  $18\frac{1}{2}^{\circ}$ , then continue drilling toward target area consisting of a 400' radius circle whose center is 1315' FSL and 1320' FWL of Section 7 at a true vertical depth (TVD) of 13,500'. The directional hole should cross the common section line at an approximate depth of 9617' measured depth (MD) or 9514' TVD.

1. The geologic surface formation in series is Ochoan.
2. Estimated tops of geologic markers are as follows:

<u>FORMATION</u>	<u>DEPTH (TVD)</u>	
Lamar Lime	3268	
Delaware Sand	3300	
Cherry Canyon	4865	
Brushy Canyon	5450	
Bone Spring	7050	
3rd Bone Spring	9950	
Wolfcamp	10,250	
Strawn Carbonate	12,127	
Atoka	12,250	
Morrow	13,100	
Morrow B-II	13,350	
Miss. Shale	13,850	
Total depth	13,950	14,295 MD

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

Air	250'
oil, water, gas	4850'
gas	12,290'
gas	13,500'