

# APPLICATION FOR PERMIT TO DRILL

**MATADOR OPERATING CORPORATION  
TOPACIO FEDERAL 28 COM #2  
1330' FSL & 1980' FEL  
SEC. 28, T19S, R33E  
LEA COUNTY, NEW MEXICO**

In conjunction with Form 3160-3, Application for Permit to Drill, Matador Operating Company submits the following items of pertinent information in accordance with Onshore Oil and Gas Order Nos. 1 & 2, and with all other applicable federal and state regulations.

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Important Geological Markers:

Upper Permian Yates	3103'	+ 495'
Upper Permian Seven Rivers	3362'	+ 236'
Lower Permian Delaware	5313'	-1715'
Lower Permian Bone Spring	8018'	-4420'
1st Bone Spring SS Mbr	9163'	-5565'
2nd Bone Spring SS Mbr	9453'	-5855'
2nd Bone Spring "Debris Flow"	9693'	-6095'
3rd Bone Spring "Carbonate"	10268'	-6670'
3rd Bone Spring SS Mbr	10589'	-6991'
Lower Permian Wolfcamp	10793'	-7195'
Lower Permian Wolfcamp "Chert"	10943'	-7345' +
Upper Penn Cisco	11803'	-8205'
Upper Penn Canyon	12003'	-8405'
Upper Penn Strawn	12108'	-8510'
Lower Penn Atoka	12403'	-8805' +
Lower Penn Atoka LST	12763'	-9165'
Lower Penn Morrow	12933'	-9335'
Middle Morrow Clastics	13130'	-9545' *
Lower Morrow	13500'	-9925' *
PTD	13750'	-10115'

\* = Primary Reservoir Targets

+ = Secondary Reservoir Targets