

APPLICATION FOR PERMIT TO DRILL

MATADOR OPERATING COMPANY

Federal "6" Com #2
1980' FNL; 1980' FEL
Sec 6, T20S, R34E
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. Geological Name of Surface Formation: Permian
2. Estimated Tops of Important Geological Markers:

	Measured Depth	Subsea	
Upper Permian Evaporites	1490'	+2145'	
Upper Permian Yates	3310'	+325'	
Lower Permian San Andres	4775'	-1140'	
Lower Permian Delaware	5530'	-1895'	
Lower Permian Bone Spring	8335'	-4700'	
1 st Bone Spring SS Mbr	9400'	-5765'	+
2 nd Bone Spring SS Mbr	9940'	-6305'	+
3 rd Bone Spring SS Mbr	10635'	-7000'	
Lower Permian Wolfcamp "Chert"	11235'	-7600'	
Upper Penn Cisco	11890'	-8255'	
Upper Penn Canyon	12105'	-8470'	
Upper Penn Strawn	12225'	-8590'	
Lower Penn Atoka	12470'	-8835'	
Lower Penn Atoka LS	12760'	-9125'	
Lower Penn Morrow	12925'	-9290'	+
Middle Morrow Clastics	13170'	-9535'	*
Lower Morrow	13510'	-9875'	*
Mississippian	13605'	-9970'	
PTD	13700'	-10065'	

* Primary Reservoir Target

+ Secondary Reservoir Target

