

APPLICATION FOR PERMIT TO DRILL

1. The geologic surface formation is Alluvium/Castile
2. The estimated tops of important geologic markers are:

1. Delaware Line 1940	6. Atoka Line 10560
2. Bone Spring Line 5320	7. Morrow Clastics 11150
3. 3rd Bone Spring Sand 8100	8.
4. Wolfcamp 8700	9.
5. Strawn Line 10350	10.
3. Depths at which oil, water, or gas bearing formations are expected to be encountered.

Delaware Sand	2000
Strawn	10350
Morrow Sands	11150-11550

4. Brief description of testing, logging, and coring programs.

DST as necessary		
Logging - Mud logger on hole	1900 - TD	
Electric Log Program		
Surface - TD	GR-Sonic	Dipmeter 10200-TD
10200 - TD	Neut-Dens	
1900 - TD	Dual LL or Dual IL	

5. Any anticipated abnormal pressures or temperatures expected? Any potential hazards -H2S?

NONE