

APPLICATION FOR PERMIT TO DRILL

1. The geologic surface formation is Alluvium Castile.
2. The estimated tops of important geologic markers are:
 1. Delaware Lime 1940
 2. Bone Spring Lime 5320
 3. 3rd Bone Spring Sand 8100
 4. Wolfcamp 8700
 5. Strawn Lime 10350
 6. Atoka Lime 10660
 7. Morrow Clastics 11150
 8. _____
 9. _____
 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.

Logging: Mud logger on hole - top Delaware Sand to TD
Gamma Ray: Surface - TD
Sonic and/or Neutron density: Top Delaware Sand - TD
Dual Lateralog: Top Delaware Sand - TD
No coring anticipated.
5. Any anticipated abnormal pressures or temperatures expected? Any potential hazards - H₂S?

None.