

APPLICATION FOR PERMIT TO DRILL

1. The geologic surface formation is Quaternary.

2. The estimated tops of important geologic markers are:

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|------------------------------------|---------------------------------|
| 1. <u>Delaware Sand 5200</u> | 6. <u>Atoka 13950</u> |
| 2. <u>Bone Spring Lm 9575</u> | 7. <u>Morrow Clastics 14575</u> |
| 3. <u>3rd Bone Spring Sd 11910</u> | 8. _____ |
| 4. <u>Wolfcamp 12201</u> | 9. _____ |
| 5. <u>Strawn Lm 13800</u> | 10. _____ |

3. Depths at which oil, water, or gas bearing formations are expected to be encountered.

Wolfcamp Limes	12201-13800
Strawn Lime	13800-13950
Atoka Sands	13950-14250
Morrow Sands	14575-15850

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

Gamma Ray: Surface - TD
Sonic and/or Neutron Density: Top Del Sd - TD
Dual Lateralog: Top Del Sd - TD
Mud Logger: Top Del Sd - TD
No coring anticipated

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

Possible abnormal pressures from Wolfcamp through the Atoka.
No H₂S zones expected.