

APPLICATION FOR PERMIT TO DRILL

1. The geologic surface formation is Quaternary.
2. The estimated tops of important geologic markers are:

1. <u>Rustler 1100</u>	6. <u>Strawn 13600</u>
2. <u>Delaware Lime 5360</u>	7. <u>Atoka Reef 13800</u>
3. <u>Delaware Sand 5390</u>	8. <u>Atoka Sand 13880</u>
4. <u>Bone Springs 9300</u>	9. _____
5. <u>Wolfcamp 12180</u>	10. _____
3. Depths at which oil, water, or gas bearing formations are expected to be encountered.

Wolfcamp Limes 12180 - 13600
Strawn Lime 13600 - 13880
Atoka Sand 13880 - 14100
4. Brief description of testing, logging, and coring programs.

Drill Stem test as necessary
Gamma Ray: Surface - TD
Sonic and/or Neutron Density: Top Delaware Sand - TD
Dual Laterolog: Top Delaware Sand - TD
Mud Logger: Top Delaware Sand - 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.