

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>Atoka Sand</u> | <u>12,150'</u> | 6. _____ |
| 2. <u>Atoka Bank</u> | <u>12,200'</u> | 7. _____ |
| 3. _____ | | 8. _____ |
| 4. _____ | | 9. _____ |
| 5. _____ | | 10. _____ |

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

Atoka Sands 11,740 - 12,500'

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

Drill Stem test as necessary
GR/Sonic/Density/DLL - 2700' to TD
Neutron - Surface to TD
Mud Logger - 9600 - TD
No coring anticipated

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

Possible abnormal pressures from 9600 feet through the Atoka

No H₂S zones expected.