

APPLICATION FOR PERMIT TO DRILL
McKittrick "30" Federal #1

1. The geologic surface formation is Quaternary overlying Tansill.
2. The estimated tops of important geologic markers are:
 1. Delaware 2145'
 2. Bone Springs 4750'
 3. Wolfcamp 8525'
 4. Penn 9700'
 5. Strawn 10,000'
 6. Atoka 10,375'
 7. Mississippi Lm 10,800'
 8. Morrow Lm 10,850'
 9. Morrow Clastics 11,025'
 10. _____
3. Depths at which oil, water, or gas bearing formations are expected to be encountered.

Wolfcamp 8525'-9700'
Penn 9700'-10,000'
Strawn 10,000'-10,375'
Morrow Sands 10,850'-11,025'
Morrow Clastics 11,025'-11,500'
4. Brief description of testing, logging, and coring programs.

Gamma Ray: Surface - TD
Sonic and/or Neutron Density: Top Delaware Sand - TD
Dual Lateralog: 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?

None anticipated.