

APPLICATION FOR PERMIT TO DRILL

Owen Mesa 25 Fed. Com., Well No. 1

1. The geologic surface formation is Quaternary.

2. The estimated tops of important geologic markers are:

1. <u>Delaware</u>	<u>2750</u>	6. <u>Morrow</u>	<u>12500</u>
2. <u>Cherry Canyon</u>	<u>3800</u>	7. _____	_____
3. <u>Bone Springs</u>	<u>6100</u>	8. _____	_____
4. <u>Wolfcamp</u>	<u>9640</u>	9. _____	_____
5. <u>Atoka</u>	<u>11750</u>	10. _____	_____

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

Bone Springs Lime and Sand	- 6100 - 9640
Wolfcamp Lime	- 9640 - 11750
Atoka Sands	- 11750 - 12500
Morrow Sands	- 12500 - 14300

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

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.