APPLICATION FOR PERMIT TO DRILL Bar 4 Federal #1

1.	The geologic surface formation is
2.	The estimated tops of important geologic markers are:
	1. Wolfcamp 9800 6.
	2. Strawn Lime 12250
	3. Atoka "A-5" Sand 12450 8.
	4. Atoka Bank 12500 9.
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3.	Depths at which oil, water, or gas bearing formations are expected to be encountered. Wolfcamp limes 9800 - 12500 Atoka Sands 12500 - 12800
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.
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