

APPLICATION FOR PERMIT TO DRILL
APACHE/MW PETROLEUM CORPORATION
SMITH FEDERAL GAS COM NO. 2
SEC 12, T22S, R23E
EDDY COUNTY, NEW MEXICO

In conjunction with Form 3160-3, Application For Permit to Drill, Apache/MW Petroleum Corporation submits the following items of pertinent information in accordance with Onshore Oil & Gas Order Nos. 1 & 2.

- 1) The geologic surface formation is of Permian Age and is marked by limestone outcroppings.
- 2) Estimated tops of geologic markers:

San Andres	500'
Glorietta	2100'
Bone Springs	3000'
Wolfcamp	6600'
Cisco	7425'
- 3) Estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water: Fresh water zones between 200'-1000'

Oil Or Gas: Cisco @ 7425' (Gas)
- 4) Proposed casing program: Attachment No. 1
- 5) Proposed cement progrm: Attachment No. 2
- 6) Pressure control equipment: Attachment No. 3
- 7) Proposed mud program: Attachment No. 4
- 8) Auxiliary equipment: Upper and lower kelly cock, full opening safety valve
- 9) Testing, logging, and coring programs:
 - a) Cores: None
 - b) Drill stem tests: None
 - c) Open hole logs: DIL/SFL/GR - Base of Intermediate to TD
GR/CNL/FDC - Base of Intermediate to TD