

**OKLAHOMA CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
P.O. BOX 52000
OKLAHOMA CITY, OK 73152-2000
(Rule 165:10-3-1)**

API NUMBER: 109 21990 A

Approval Date: 09/11/1995
Expiration Date: 03/25/1996

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 18 Twp: 11N Rge: 1E

County: OKLAHOMA

SPOT LOCATION: SW NE SE SE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 950 2065

Lease Name: HARRIET

Well No: 1-18

Well will be 575 feet from nearest unit or lease boundary.

Operator Name: THUNDER OIL & GAS LLC

Telephone: 5802263800

OTC/OCC Number: 10073 0

THUNDER OIL & GAS LLC
PO BOX 1788
ARDMORE, OK 73402-1788

HARRIET HELEN MHOON
4209 S TRIPLE X ROAD
CHOCTAW OK 73020

Formation(s) (Permit Valid for Listed Formations Only):

Name	Depth	Name	Depth
1 MISENER	5960	6	
2 HUNTON	5970	7	
3		8	
4		9	
5		10	

Spacing Orders: 241635

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 953131

Special Orders: 90123

Total Depth: 6250

Ground Elevation: 1226

Surface Casing: 1200

Depth to base of Treatable Water-Bearing FM: 700

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 3000 Average: 2000

E. Haul to Commercial pit facility: Sec. 21 Twn. 5N Rng. 2W Cnty. 87 Order No: 262464

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 2

Liner not required for Category: 2

Pit Location is BED AQUIFER

Pit Location Formation: GARBER

This permit does not address the right of entry or settlement of surface damages.

109 21990 HARRIET 1-18

The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.

Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.