

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

API NUMBER: 019 26016

Approval Date: 12/03/2013

Expiration Date: 06/03/2014

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 01 Twp: 3S Rge: 3W

County: CARTER

SPOT LOCATION: C NW SE

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1980 660

Lease Name: JESSICA

Well No: 2

Well will be 660 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 73401-1788

DAVID WATSON

PO BOX 278

FOX OK 73435

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

	Name	Depth	Name	Depth
1	SYCAMORE	6000	6	
2	WOODFORD	6500	7	
3			8	
4			9	
5			10	

Spacing Orders: 278736
268572

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 7000

Ground Elevation: 1047

Surface Casing: 840

Depth to base of Treatable Water-Bearing FM: 790

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: ON SITE

A. Evaporation/dewater and backfilling of reserve pit.

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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

Notes:

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.

Category	Description
SPACING - 268572	12/3/2013 - G30 - (80) NW4 & S2 1-2S-3W SU NW/SE EXT 210617 SCRM, OTHERS EXT 245455 WDFD
SPACING - 278736	12/3/2013 - G30 - NPT 268572 TO CORRECT LOCATION NW4 & S2 1-3S-3W