

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

API NUMBER: 083 24302

Approval Date: 05/14/2014
Expiration Date: 11/14/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 30 Twp: 17N Rge: 2W

County: LOGAN

SPOT LOCATION: NE NE NE NE

FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 240 250

Lease Name: ALLY CAREY

Well No: 1-19MH

Well will be 240 feet from nearest unit or lease boundary.

Operator Name: OSAGE EXPLORATION & DEVELOPMENT INC

Telephone: 4052700989

OTC/OCC Number: 23098 0

OSAGE EXPLORATION & DEVELOPMENT INC
100 PARK AVE STE 1040
OKLAHOMA CITY, OK 73102-8018

MICHAEL & MARY JANE CAREY
5175 WEST COUNTY ROAD 75
GUTHRIE OK 73044

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	5531	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 611948

Location Exception Orders: 612359
622334

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 10695

Ground Elevation: 1052

Surface Casing: 450

Depth to base of Treatable Water-Bearing FM: 200

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

Type of Pit System: CLOSE Closed System Means Steel Pits

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: C

Liner not required for Category: C

Pit Location is AP/TE DEPOSIT

Pit Location Formation: TERRACE

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-27026

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

**Cancelled Per Operator Request
8-29-14 VHL**

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.

HORIZONTAL HOLE 1

Sec 19 Twp 17N Rge 2W County LOGAN

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 200

Feet From: WEST 1/4 Section Line: 660

Depth of Deviation: 4873

Radius of Turn: 731

Direction: 355

Total Length: 4674

Measured Total Depth: 10695

True Vertical Depth: 5570

End Point Location from Lease,
Unit, or Property Line: 200

Notes:

Category

Description

LOCATION EXCEPTION - 612359

5/14/2014 - G75 - (I.O.) 19-17N-2W
X611948 MSSP, OTHERS
COMPL. INT. NCT 200 FSL, NCT 200 FNL, NCT 660 FEL
SLAWSON EXPLOR. CO., INC.
6-5-2013

LOCATION EXCEPTION - 622334

5/14/2014 - G75 - MOD 612359 CHANGING OPERATOR TO OSAGE EXPLOR. & DEVELOP., INC.
3-7-2014

SPACING - 611948

5/14/2014 - G75 - (640)(HOR) 19-17N-2W
VAC 514727 MSSLM, OTHER
EXT 604689 MSSP, OTHERS
POE TO FHL NCT 660' FB
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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Office of the Conservation Division as to when Surface Casing will be run.

083 24302 ALLY CAREY 1-19MH