

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

API NUMBER: 047 24681

Approval Date: 03/06/2013  
Expiration Date: 09/06/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 02 Twp: 24N Rge: 4W

County: GARFIELD

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 165 990

Lease Name: CHARLENE

Well No: 1-2H

Well will be 165 feet from nearest unit or lease boundary.

Operator Name: PLYMOUTH EXPLORATION LLC

Telephone: 9185991850; 9185991

OTC/OCC Number: 22491 0

PLYMOUTH EXPLORATION LLC  
110 W 7TH ST STE 2600  
TULSA, OK 74119-1031

DON NELSON & CHARLENE NELSON  
3644 EDGEWATER DRIVE  
ENID OK 73703

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5550	6
2			7
3			8
4			9
5			10

Spacing Orders: 111828

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201301030

Special Orders:

Total Depth: 10250

Ground Elevation: 1118

**Surface Casing: 330**

Depth to base of Treatable Water-Bearing FM: 280

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

**PIT 1 INFORMATION**

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 50000 Average: 5000

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 BED AQUIFER

Pit Location Formation: GARBER

Approved Method for disposal of Drilling Fluids:

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

PERMIT NO: 13-22484

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 02 Twp 24N Rge 4W County GARFIELD

Spot Location of End Point: C NW NE NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 990

Depth of Deviation: 4834

Radius of Turn: 716

Direction: 360

Total Length: 4291

Measured Total Depth: 10250

True Vertical Depth: 5850

End Point Location from Lease,  
Unit, or Property Line: 330

Notes:

Category	Description
PENDING CD - 201301030	2/28/2013 - G75 - (I.O.) 2-24N-4W X111828 MSSP SHL NCT 165 FSL, NCT 990 FEL FIRST PERF NCT 330 FSL, NCT 660 FEL LAST PERF NCT 330 FNL, NCT 660 FEL BHL NCT 330 FNL, NCT 660 FEL NO OP. NAMED REC 3-5-2013 (MCKEOWN)
SPACING - 111828	2/28/2013 - G75 - (640) 2-24N-4W EXT 103738 MSSP, OTHERS