

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

API NUMBER: 047 24839

Approval Date: 04/21/2014

Expiration Date: 10/21/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 24N Rge: 4W

County: GARFIELD

SPOT LOCATION: SW SW SW SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 165 2475

Lease Name: MABEL

Well No: 2-15H

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

JOHN & BARBARA SYNAR
RT. 1, BOX 16230
WARNER OK 74469

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

Name	Depth	Name	Depth
1	MISSISSIPPI	5535	6
2			7
3			8
4			9
5			10

Spacing Orders: 585908

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201401438
201401437

Special Orders:

Total Depth: 10200

Ground Elevation: 1092

Surface Casing: 360

Depth to base of Treatable Water-Bearing FM: 310

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: 14-26360

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 15 Twp 24N Rge 4W County GARFIELD

Spot Location of End Point: W2 SW SW SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 2475

Depth of Deviation: 5164

Radius of Turn: 636

Direction: 180

Total Length: 4037

Measured Total Depth: 10200

True Vertical Depth: 5800

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

Notes:

Category

Description

PENDING CD - 201401437

4/18/2014 - G75 - 15-24N-4W
X585908 MISS
1 WELL
NO OP. NAMED
REC 3-25-2014 (JOHNSON)

PENDING CD - 201401438

4/18/2014 - G75 - (I.O.) 15-24N-4W
X585908 MISS
SHL NCT 165 FNL, NCT 660 FEL **
FIRST PERF NCT 330 FNL, NCT 660 FEL
LAST PERF NCT 330 FSL, NCT 660 FEL
BHL NCT 330 FSL, NCT 660 FEL
NO OP. NAMED
REC 3-25-2014 (JOHNSON)

** ITD HAS SHL AS 165 FSL, 2475 FEL 10-24N-4W; TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION PER OPERATOR

SPACING - 585908

4/18/2014 - G75 - (640)(HOR) 15-24N-4W
VAC 60193 MSSLM
EST MISS
POE TO BHL NCT 660' FB