

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

API NUMBER: 047 24857

Approval Date: 05/16/2014
Expiration Date: 11/16/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: GARFIELD

SPOT LOCATION: SE SW SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 165 1800

Lease Name: MEIER

Well No: 1-24H

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

LEROY MEIER LIVING TRUST
5324 N SINCLAIR ROAD
LEROY & ABBY MEIER, CO-TRUSTEES
GARBER OK 73738

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5450	6
2			7
3			8
4			9
5			10

Spacing Orders: 201403018

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201403020

Special Orders:

Total Depth: 10200

Ground Elevation: 1056

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 300

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: 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

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

PERMIT NO: 14-27236

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 24 Twp 24N Rge 4W County GARFIELD

Spot Location of End Point: E2 NW NE NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1800

Depth of Deviation: 5064

Radius of Turn: 636

Direction: 360

Total Length: 4000

Measured Total Depth: 10200

True Vertical Depth: 5700

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

Notes:

Category	Description
PENDING CD - 201403020	5/16/2014 - G72 - 24-24N-04W X 201403018 MSSP; SHL NCT 165 FSL NCT 660 FWL; COMP INT.NCT 330 FSL NCT 330 FNL NCT 660 FWL; BHL NCT 330 FNL NCT 660 FWL; NO OPER NAMED; REC 5/13/2014 (MCKEOWN)
PENDING CD 201403018	5/16/2014 - G72 - (640) HORZ 24-24N-04W VAC 172119 MSSCT, MSSLM; EXT 589573 MSSP; EXT OTHERS; REC 5/13/2014 (MCKEOWN)

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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.

API 047 24857

TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73118 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219
Certificate of Authorization No. 1293

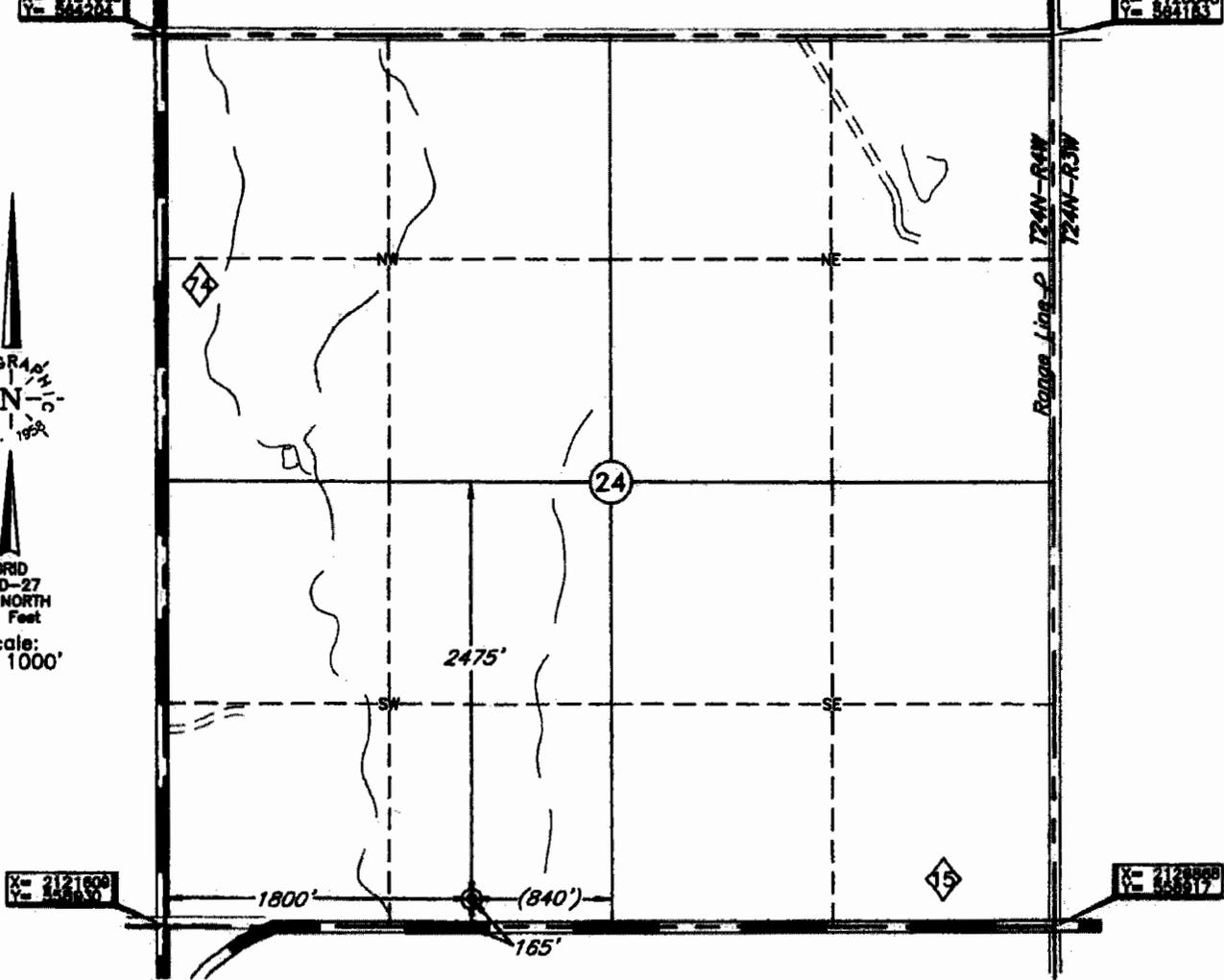
GARFIELD

County, Oklahoma

165' FSL-1800' FWL Section 24 Township 24N Range 4W I.M.

X= 2121899
Y= 559091

X= 2126848
Y= 563183



NOTE: The information shown herein is for construction purposes ONLY.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2840 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

Operator: PLYMOUTH EXPLORATION, INC.
Lease Name: MEIER
Topography & Vegetation: Loc. fell in rolling hay field

Well No.: 1-24H ELEVATION: 1056' Gr. at Stake

Good Drill Site? Yes Reference Stakes or Alternate Location Stakes Set None

Best Accessibility to Location From South off county road
Distance & Direction from Hwy Jct or Town From Garber, OK, go ±6.75 miles North on St. Hwy 74, then ±0.4 miles East on St. Hwy 15 to the well location in Sec. 24-T24N-R4W

DATUM: NAD-27
LAT: 36°32'06.6"N
LONG: 97°34'47.8"W
LAT: 36.535167595° N
LONG: 97.579956031° W
STATE PLANE COORDINATES: (US Feet)
ZONE: OK NORTH
X: 2123408
Y: 559091

Date of Drawing: May 7, 2014
Invoice # 222206 Date Staked: May 5, 2014 DB

CERTIFICATE:

I, Thomas L. Howell a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

Thomas L. Howell
Oklahoma Lic. No. 1433



This information was gathered with a GPS receiver with ±1 foot Horiz./Vert. accuracy