

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

API NUMBER: 047 24850

Approval Date: 05/02/2014
Expiration Date: 11/02/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 24N Rge: 3W

County: GARFIELD

SPOT LOCATION: S2 S2 SE SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 165 1980

Lease Name: ZACHGO

Well No: 1-6H

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

SARA M. CHAIN LIFE ESTATE
17709 E. UNION ROAD
HUNTER OK 74640

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	5500	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201402008
201402006

Special Orders:

Total Depth: 10500

Ground Elevation: 1076

Surface Casing: 260

Depth to base of Treatable Water-Bearing FM: 210

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: 14-26794
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 06 Twp 24N Rge 3W County GARFIELD

Spot Location of End Point: C N2 NE NW

Feet From: NORTH 1/4 Section Line: 330

Feet From: WEST 1/4 Section Line: 1980

Depth of Deviation: 5114

Radius of Turn: 636

Direction: 360

Total Length: 4387

Measured Total Depth: 10500

True Vertical Depth: 5750

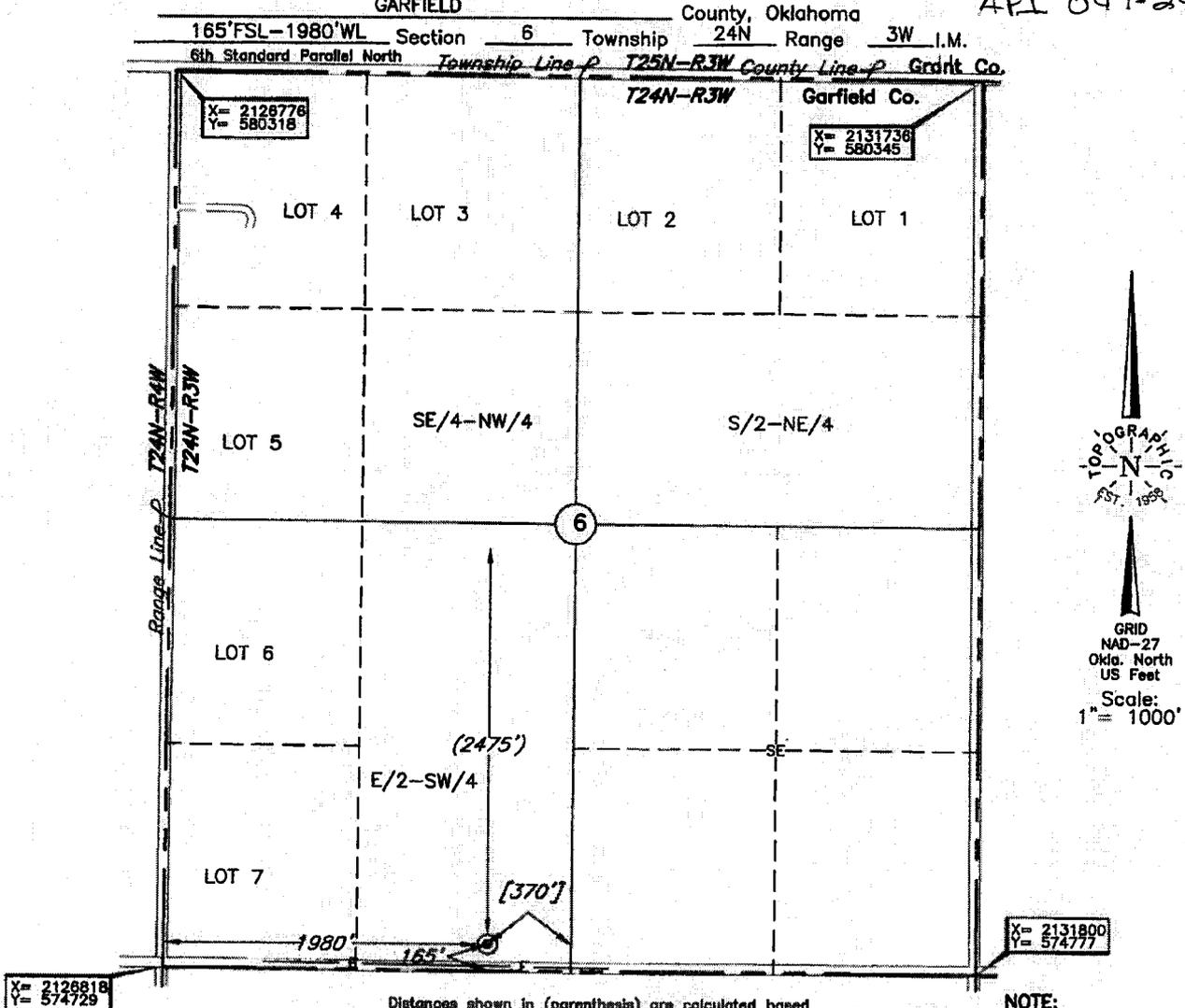
End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category	Description
PENDING CD - 201402006	5/2/2014 - G75 - (640)(HOR) 6-24N-3W EXT 621040 MSSP, OTHER COMPL. INT. NCT 660' FB REC 4-8-2014 (MCKEOWN)
PENDING CD - 201402008	5/2/2014 - G75 - (I.O.) 6-24N-3W X201402006 MSSP SHL NCT 165 FSL, NCT 660 FWL FIRST PERF NCT 330 FSL, NCT 660 FWL LAST PERF NCT 330 FNL, NCT 660 FWL BHL NCT 330 FNL, NCT 660 FWL NO OP. NAMED REC 4-8-2014 (MCKEOWN)

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5/2 SE SW
 API 047-24850



Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2840 feet, those shown in [brackets] are based on GLD (General Land Office) distances and have NOT been measured on the ground.
 NOTE: The information shown herein is for construction purposes ONLY.

Operator: PLYMOUTH EXPLORATION, INC.
 Lease Name: ZACHGO Well No.: 1-6H ELEVATION: 1076' Gr. at Stake
 Topography & Vegetation Loc. fell in wheat field, ±137' North of E-W power line
 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 the Jct. of St. Hwy. 74 & St. Hwy. 51 East, go ±3 miles North on St. Hwy. 74, then ±1 mile East to the SW Cor. of Sec. 6-T24N-R3W

DATUM: NAD-27
 LAT: 36°34'42.8"N
 LONG: 97°33'40.9"W
 LAT: 38.578563941' N
 LONG: 97.561372125' W
 STATE PLANE
 COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 2128797
 Y: 574913

Date of Drawing: Mar. 25, 2014
 Invoice # 217435 Date Staked: Mar. 18, 2014 LC

CERTIFICATE:
 I, Virgil R. Rogers a Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.
Virgil R. Rogers
 Oklahoma Lic. No. 569



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