

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

API NUMBER: 049 24929

Approval Date: 01/15/2013  
Expiration Date: 07/15/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 3N Rge: 4W

County: GARVIN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 300 330

Lease Name: 3R

Well No: 1-34H

Well will be 300 feet from nearest unit or lease boundary.

Operator Name: MARATHON OIL COMPANY

Telephone: 7132961948; 4057205

OTC/OCC Number: 1363 0

MARATHON OIL COMPANY  
P.O. Box 3128  
HOUSTON, TX 77253-3128

OLGA VELA OR FRAN CELIA MCDERMOTT, TRUSTEES  
P.O. BOX 20799  
OKLAHOMA CITY OK 73156

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

	Name	Depth	Name	Depth
1	SYCAMORE	13619	6	
2	WOODFORD	13782	7	
3	HUNTON	14032	8	
4			9	
5			10	

Spacing Orders: 599919

Location Exception Orders: 601743

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 18771

Ground Elevation: 1056

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 360

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: CLOSED 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 BED AQUIFER

Pit Location Formation: BISON

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

PERMIT NO: 12-20551

H. SEE MEMO

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.

PIT 2 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: OIL BASED

Chlorides Max: 300000 Average: 200000

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: BISON

HORIZONTAL HOLE 1

Sec 34 Twp 3N Rge 4W County GARVIN

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 60

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 13628

Radius of Turn: 572

Direction: 360

Total Length: 4244

Measured Total Depth: 18771

True Vertical Depth: 14032

End Point Location from Lease,  
Unit, or Property Line: 60

Notes:

Category

Description

DEEP SURFACE CASING

1/15/2013 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

LOCATION EXCEPTION - 601743

1/15/2013 - G75 - (I.O.) 34-3N-4W  
X599919 SCMR, WDFD, HNTN  
SHL NCT 0 FSL, NCT 250 FWL  
FIRST PERF NCT 150 FSL, NCT 250 FWL  
LAST PERF NCT 150 FNL, NCT 250 FWL  
BHL NCT 50 FNL, NCT 250 FWL  
MARATHON OIL CO.  
9-6-2012

MEMO

1/15/2013 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

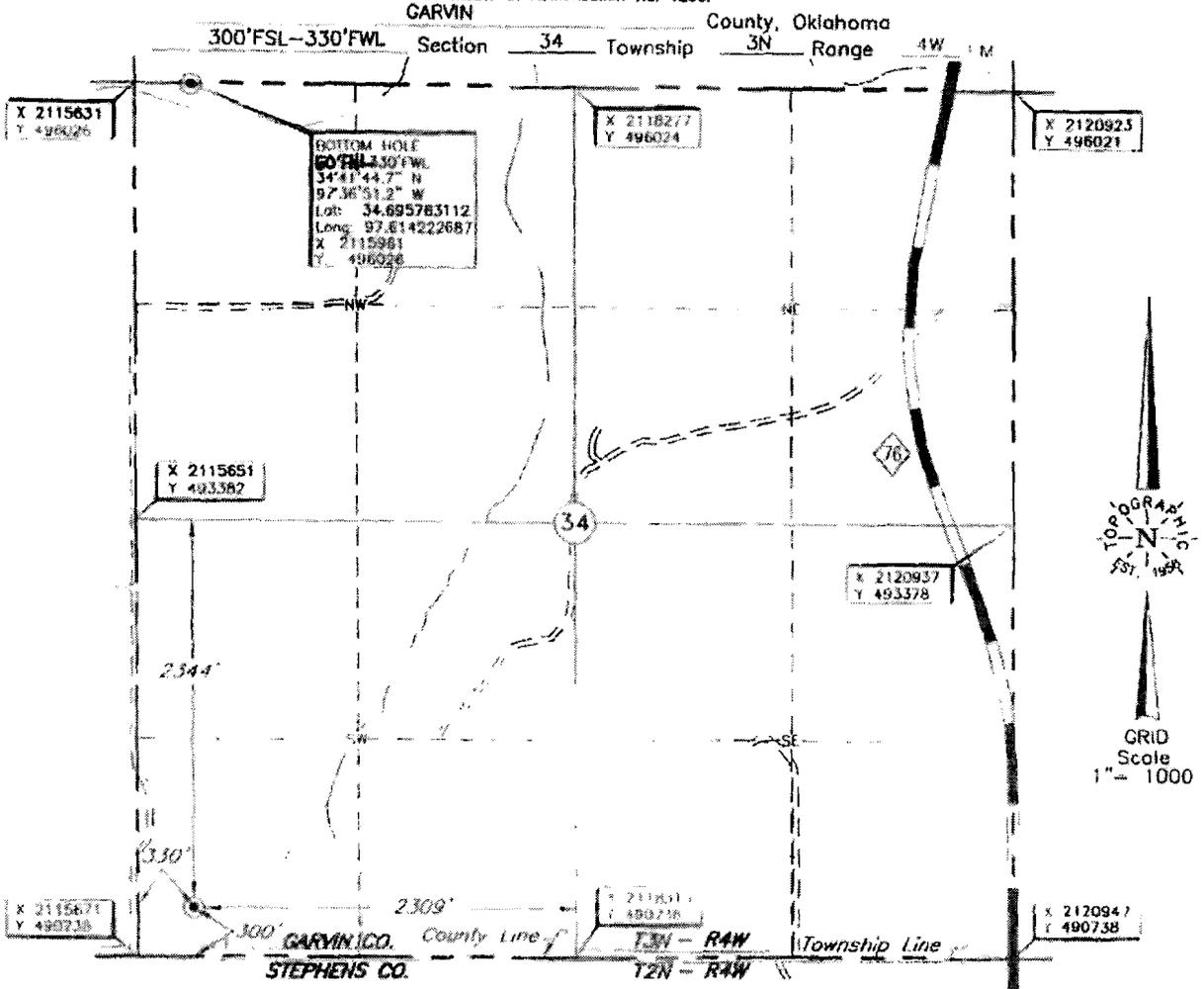
SPACING - 599919

1/15/2013 - G75 - (640) 34-3N-4W  
EXT 360755 SCMR, WDFD, HNTN, OTHERS

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.

API  
049-24929

**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**  
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293.



Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO (General Land Office) distances and have NOT been measured on the ground.

BOTTOMHOLE INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED. CORNER COORDINATES ARE TAKEN FROM POINTS SURVEYED IN THE FIELD.

Operator: MARATHON OIL CO. OKLAHOMA CITY OPERATIONS  
Lease Name: 3R

**ELEVATION:**  
1056' Cr. at Stake

Topography & Vegetation Loc. fell in sloping pasture, ± 240' North of powerline, ± 250' North of R/W fence

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

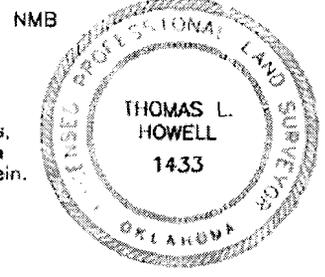
Best Accessibility to Location From South off county road

Distance & Direction From the junction of St. Hwy 29 & St. Hwy 76, go 3 miles North on St. Hwy 76, then 1 mile West to the Southwest Corner of Section 34, T3N - R4W.

**SCANNED**

This information was gathered with a GPS receiver with sub-meter accuracy.  
DATUM: NAD-27  
LAT: 34°40'55.4\"/>

Date of Drawing: May 31, 2012  
Invoice # 183888 Date Staked: May 24, 2012



**CERTIFICATE:**  
I, Thomas L. Howell, a Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors, do hereby certify that the above described well location was surveyed and staked on the ground as shown herein.

*Thomas L. Howell*  
Oklahoma Reg. No. 1433