

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

API NUMBER: 011 23843

Approval Date: 08/14/2017  
Expiration Date: 02/14/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 29 Twp: 16N Rge: 11W County: BLAINE  
SPOT LOCATION:  NE  NE  NE  NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 325 275

Lease Name: PIERCE BIA 1611 Well No: 1-29-32MXH Well will be 275 feet from nearest unit or lease boundary.  
Operator Name: MARATHON OIL COMPANY Telephone: 7132962003 OTC/OCC Number: 1363 0

MARATHON OIL COMPANY  
5555 SAN FELIPE ST  
HOUSTON, TX 77056-2701

JERRY DON PIERCE, TRUSTEE  
81459 S. 2590 ROAD  
WATONGA OK 73772

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

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

Spacing Orders: 648706  
655950

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201704655  
201704654

Special Orders:

Total Depth: 21269

Ground Elevation: 1528

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 70

Under Federal Jurisdiction: Yes

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: 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

HORIZONTAL HOLE 1

Sec 32 Twp 16N Rge 11W County BLAINE

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 375

Depth of Deviation: 10438

Radius of Turn: 462

Direction: 178

Total Length: 10105

Measured Total Depth: 21269

True Vertical Depth: 11430

End Point Location from Lease,  
Unit, or Property Line: 50

Notes:

Category

Description

DEEP SURFACE CASING

7/26/2017 - G58 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

7/26/2017 - G58 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK: [HTTP://WWW.OCCWEB.COM/OG/OGFORMS.HTML](http://www.occeweb.com/og/ogforms.html); AND,

3)THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/)

INTERMEDIATE CASING

7/26/2017 - G58 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES

MEMO

7/26/2017 - G58 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

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.

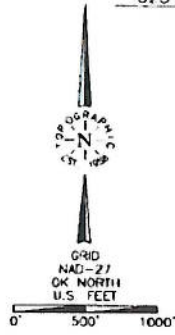
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Category	Description
PENDING CD - 201704654	8/1/2017 - G60 - (I.O.) 29 & 32-16N-11W X648706 MSSP (29-16N-11W) X655950 MSSP (32-16N-11W) COMPL. INT. (29-16N-11W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (32-16N-11W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL MARATHON OIL. CO. REC. 8/11/17 (THOMAS)
PENDING CD - 201704655	8/1/2017 - G60 - (I.O.) 29 & 32-16N-11W EST MULTIUNIT HORIZONTAL WELL X648706 MSSP (29-16N-11W) X655950 MSSP (32-16N-11W) 50% 29-16N-11W 50% 32-16N-11W MARATHON OIL CO. REC. 8/11/17 (THOMAS)
SPACING - 648706	8/1/2017 - G60 - (640) 29-16N-11W EST MSSP, OTHERS
SPACING - 655950	8/1/2017 - G60 - (640) 32-16N-11W EST MSSP, OTHERS

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Office of the Conservation Division as to when Surface Casing will be run.

**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 LS

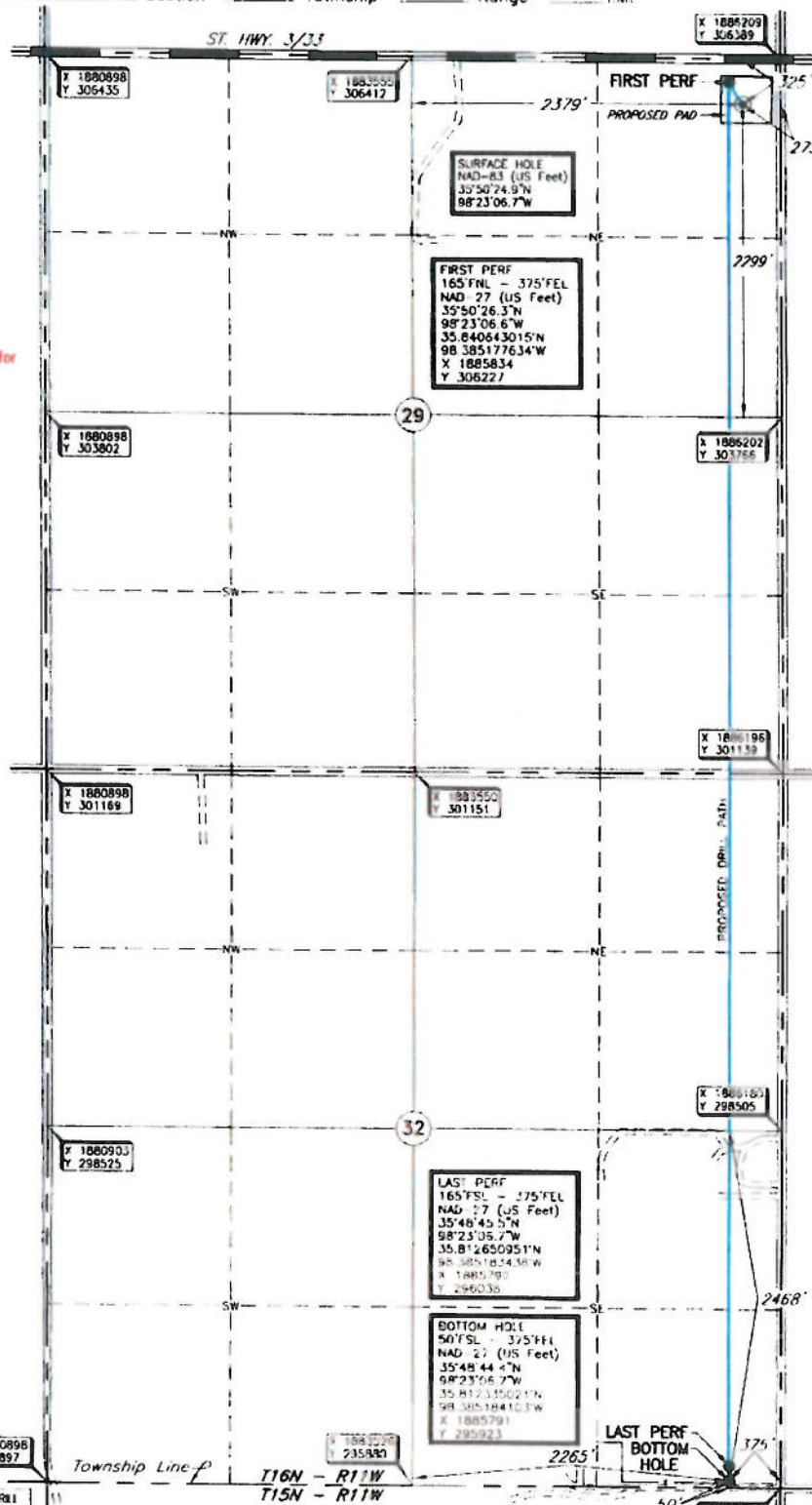
BLAINE County, Oklahoma  
 375' FNL - 275' FEL Section 29 Township 16N Range 11W 1/4 M.



**-NOTE-**  
 The information shown herein is for construction purposes ONLY.

Operator: MARATHON OIL COMPANY  
 Lease Name: PIERCE BIA 1611  
 Topography & Vegetor or Location: Well in grass pasture, ±231' South of fence, 1242' West of fence.  
 Good Drill Site? Yes Alternate Location Stake Set None  
 Best Accessibility to Location: From east of county road  
 Distance & Direction: From the jct. of St. Hwy. 3/33 and St. Hwy. 8 in Watonga, Ok., go ±2 miles East on St. Hwy. 3/33, to the NE corner of Section 29, T16N - R11W

**ELEVATION:**  
 1528' Gr. at Stake NAD88  
 1527' Gr. at Stake NAD29



POINT	PLAN	LAST PERF	BOTTOM HOLE AND DRILL PAD	INFORMATION PROVIDED BY OPERATOR LISTED	NOT SURVEYED
DATUM	NAD-27				
LAT	35°50'24.7\"/>				
LONG	98°23'05.4\"/>				
LAT	35.840201994\"/>				
LONG	98.384839650\"/>				
STATE PLANE					
COORDINATES (US Feet)					
ZONE	OK NORTH				
X	1885933				
Y	306067				

Revision **A** Date of Drawing: January 18, 2017  
 Invoice # 263300 Date Staked: January 10, 2017

**CERTIFICATE:**

I, Lee K. Goss, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein.

*Lee K. Goss*  
 Oklahoma Lic. No. 1778

