

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

API NUMBER: 011 23762

Approval Date: 03/10/2017
Expiration Date: 09/10/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 15N Rge: 11W

County: BLAINE

SPOT LOCATION: SE SW SW SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 285 390

Lease Name: LANDRETH BIA

Well No: 1-14H

Well will be 285 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

BOBBY & ANNETTE LANDRETH
RT 2 BOX 139
WATGONA OK 73772

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	10165	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201700978
201700980

Special Orders:

Total Depth: 16227

Ground Elevation: 1475

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 110

Under Federal Jurisdiction: Yes

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: 8000 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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

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 14 Twp 15N Rge 11W County BLAINE

Spot Location of End Point: NE NW NW NW

Feet From: NORTH 1/4 Section Line: 48

Feet From: WEST 1/4 Section Line: 331

Depth of Deviation: 10744

Radius of Turn: 462

Direction: 359

Total Length: 4757

Measured Total Depth: 16227

True Vertical Depth: 11468

End Point Location from Lease,
Unit, or Property Line: 48

Notes:

Category

Description

COMPLETION INTERVAL

3/10/2017 - G64 - WILL BE GREATER THAN 150' FNL, 150' FSL, 330' FWL PER OPERATOR

DEEP SURFACE CASING

3/3/2017 - G71 - 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

3/3/2017 - G71 - OCC 165:10-3-10 REQUIRES: 1) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS BE REPORTED TO FRACFOCUS USING THE FOLLOWING LINK [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/) WITH NOTICE GIVEN 48 HOURS IN ADVANCE OF FRACTURING TO THE LOCAL OCC DISTRICT OFFICE; AND, 2) PRIOR TO COMMENCEMENT OF FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE ALSO GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE

INTERMEDIATE CASING

3/3/2017 - G71 - 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

3/3/2017 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201700978

3/3/2017 - G64 - (640) 14-15N-11W
X653025 MSSP, OTHERS
REC. 3-7-2017 (DUNN)

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

PENDING CD - 201700980

Description

3/3/2017 - G64 - (I.O.) 14-15N-11W
X201700978 MSSP, OTHERS
COMPL. INT. NCT 150' FNL, NCT 150' FSL, NCT 330' FWL
NO OP. NAMED
REC. 3-7-2017 (DUNN)

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.

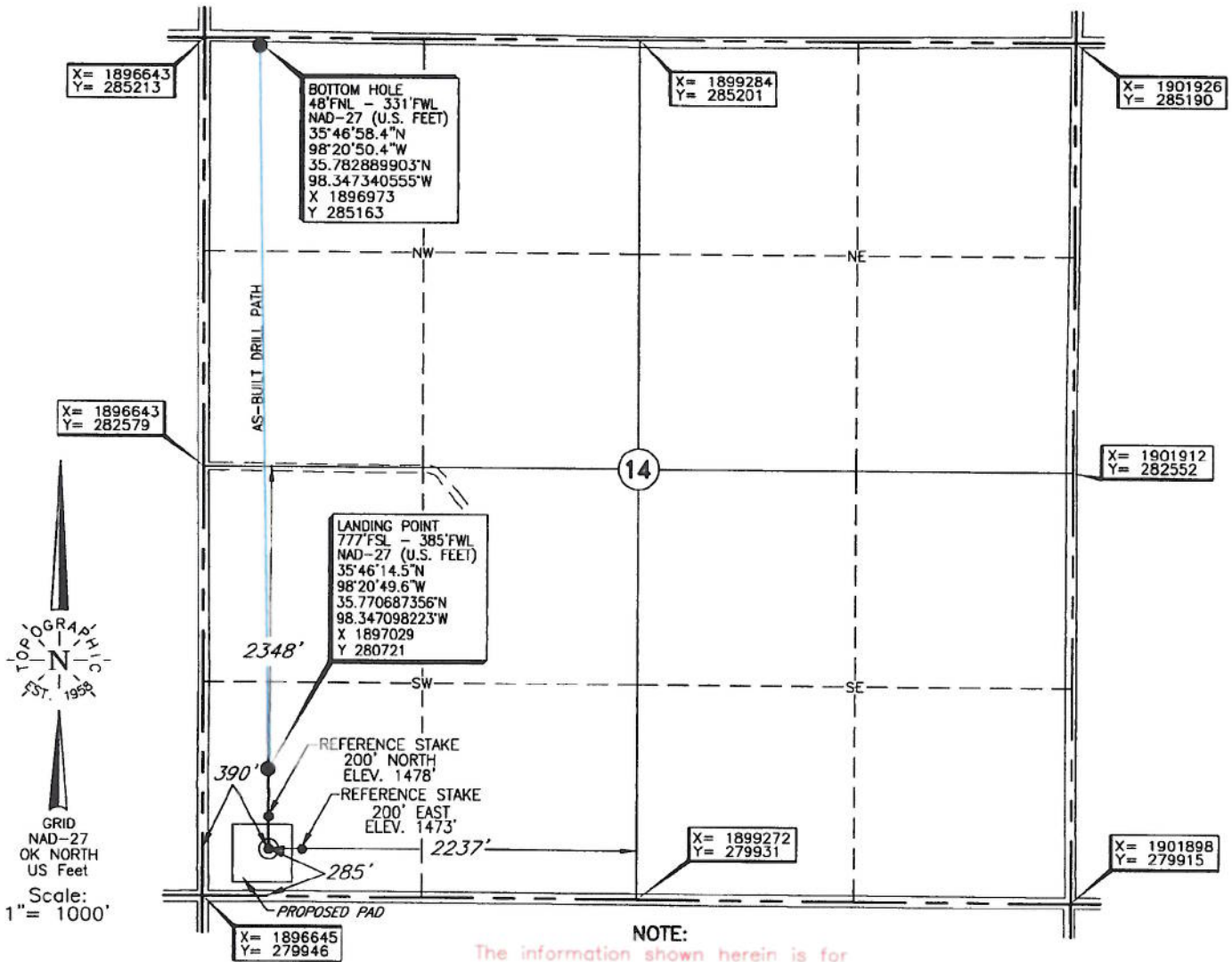
TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

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

285'FSL - 390'FWL Section 14 Township 15N Range 11W I.M.



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

Operator: MARATHON OIL COMPANY

Lease Name: LANDRETH BIA

Well No.: 1-14H **ELEVATION:** 1475' Gr. at Stake

Topography & Vegetation Location fell in sloped wheat field and pasture

Good Drill Site? Fair Reference Stakes Set 200' North Elev. 1478'; 200' East Elev. 1473'

Best Accessibility to Location From South off county road
 Distance & Direction from Hwy Jct or Town From Jct. St. Hwy. 33 East and US Hwy. 270 South in Watonga, OK, go ±4.0 miles East on St. Hwy. 33, then ±5.0 miles South on paved road to the SW Corner of Section 14, T15N-R11W.

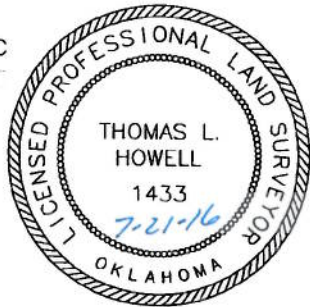
DATUM: NAD-27
 LAT: 35°46'09.6"N
 LONG: 98°20'49.5"W
 LAT: 35.769335788° N
 LONG: 98.347072069° W
 STATE PLANE COORDINATES: (US Feet)
 ZONE: OK NORTH
 X: 1897035
 Y: 280229

Revision A Date of Drawing: June 23, 2016
 Invoice # 256175 Date Staked: Jan. 27, 2016 AC

CERTIFICATE:

I, Thomas L. Howell an 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