

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

API NUMBER: 073 25452

Approval Date: 12/06/2016  
Expiration Date: 06/06/2017

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 35 Twp: 15N Rge: 6W

County: KINGFISHER

SPOT LOCATION:  NW  SE  SW  SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 350 835

Lease Name: MCCARTHY 1506

Well No: 2-35MH

Well will be 350 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

G WADE MOFFAT  
5501 CIMMARON ROAD NW  
PIEDMONT OK 73078

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	7450	6
2			7
3			8
4			9
5			10

Spacing Orders: 626212  
640613

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201605239

Special Orders:

Total Depth: 12490

Ground Elevation: 1230

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 260

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: 5000 Average: 3000

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

Is depth to top of ground water greater than 10ft below base of pit? Y

H. SEE MEMO

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: DUNCAN

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: DUNCAN

HORIZONTAL HOLE 1

Sec 35 Twp 15N Rge 6W County KINGFISHER

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 6988

Radius of Turn: 462

Direction: 305

Total Length: 4776

Measured Total Depth: 12490

True Vertical Depth: 7713

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

Notes:

Category

Description

DEEP SURFACE CASING

12/1/2016 - 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

12/1/2016 - 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.

MEMO

12/1/2016 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201605239

12/1/2016 - G64 - (E.O.) 35-15N-6W  
X626212/640613 MSSP  
COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL  
NO OP. NAMED  
REC. 12-5-2016 (DUNN)

SPACING - 626212

12/1/2016 - G64 - (640)(HOR) 35-15N-6W  
VAC 55880/62761 MSSLM N2, SE4  
VAC 55880/62761/169572 MSSLM SW4  
VAC OTHERS  
EXT 621116 MSSP, OTHERS  
COMPL. INT. NLT 330' FB (AMD BY 640613 TO NCT 660' FB)

SPACING - 640613

12/1/2016 - G64 - (640)(HOR) 35-15N-6W  
AMD 626212 TO CHANGE COMPL. INT. (MSSP) TO NCT 660' FB

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.

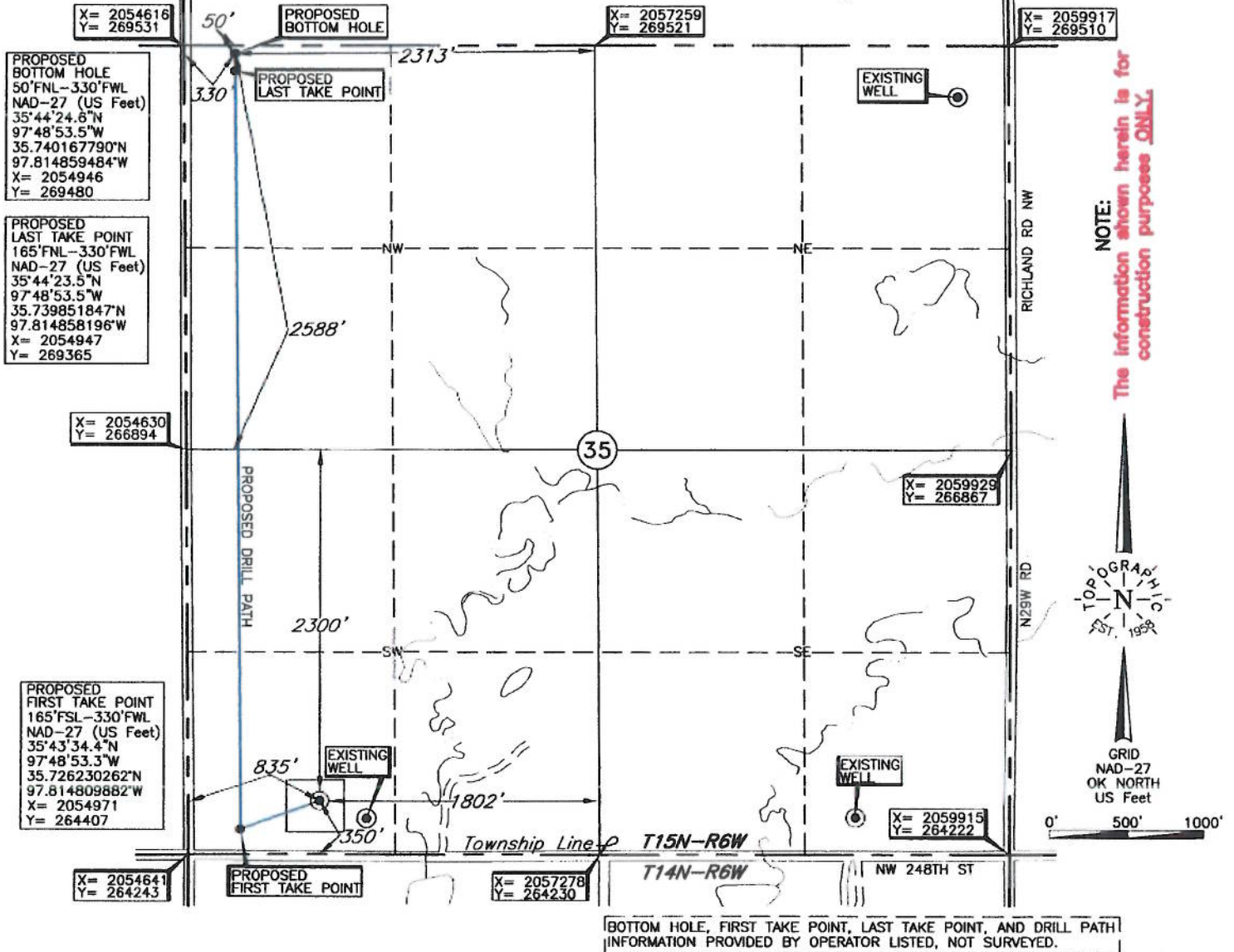
**TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA**

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

KINGFISHER

County, Oklahoma

350FSL-835'FWL Section 35 Township 15N Range 6W I.M.



BOTTOM HOLE, FIRST TAKE POINT, LAST TAKE POINT, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

Operator: MARATHON OIL COMPANY

Lease Name: MCCARTHY 1506

Well No.: 2-35MH

**ELEVATION:**

1230' Gr. at Stake NGVD29

Topography & Vegetation Loc. fell in terraced field, NW of existing pad; ±324' NW of existing well

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

Best Accessibility to Location From South off county road

Distance & Direction From Okarche, OK, go East on paved road for ±9 miles to the SW

Cor. of Sec. 35-T15N-R6W.

Date of Drawing: Nov. 9, 2016

Invoice # 267839 Date Staked: Nov. 7, 2016

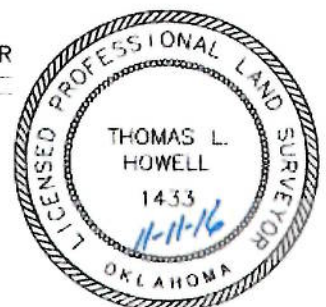
TR

**DATUM:** NAD-27  
**LAT:** 35°43'36.2"N  
**LONG:** 97°48'47.2"W  
**LAT:** 35.726729285°N  
**LONG:** 97.813109973°W  
**STATE PLANE COORDINATES:** (US Feet)  
**ZONE:** OK NORTH  
**X:** 2055475  
**Y:** 264589

**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.