

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

API NUMBER: 073 26172

Approval Date: 07/25/2018

Expiration Date: 01/25/2019

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 15N Rge: 9W

County: KINGFISHER

SPOT LOCATION: ☐ SE ☐ SW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 300 800

Lease Name: MIKE STROUD BIA 1509

Well No: 3-28-33MXH

Well will be 300 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

WWS, LLC.
P.O. BOX 58
OKARCHE OK 73762

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN SOLID	9030	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 198249
161901
672024

Location Exception Orders: 672019
672015
672016

Increased Density Orders: 670365
677221

Pending CD Numbers:

Special Orders:

Total Depth: 20362

Ground Elevation: 1308

Surface Casing: 630

Depth to base of Treatable Water-Bearing FM: 380

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: BLAINE

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 not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: BLAINE

HORIZONTAL HOLE 1

Sec 28 Twp 15N Rge 9W County KINGFISHER

Spot Location of End Point: NW NE NW NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 1669

Depth of Deviation: 8758

Radius of Turn: 800

Direction: 355

Total Length: 10347

Measured Total Depth: 20362

True Vertical Depth: 10855

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

Notes:

Category

Description

HYDRAULIC FRACTURING

7/16/2018 - G71 - 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: 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: FRACFOCUS.ORG

INCREASED DENSITY - 670365

7/20/2018 - G57 - 33-15N-9W
X161901 MSSSD
8 WELLS
MARATHON OIL COMPANY
11-22-2017

INCREASED DENSITY - 677221

7/20/2018 - G57 - 28-15N-9W
X198249 MSSSD
7 WELLS
MARATHON OIL COMPANY
5-3-2018

INTERMEDIATE CASING

7/16/2018 - 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

This permit does not address the right of entry or settlement of surface damages.

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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.

073 26172 MIKE STROUD BIA 1509 3-28-33MXH

Category	Description
LOCATION EXCEPTION - 672015	7/20/2018 - G57 - (I.O.) 28-15N-9W X165:10-3-28(C)(2)(B) MSSSD (MIKE STROUD BIA 1509 3-28-33MXH) MAY BE CLOSER THAN 600' TO THE STROUD 2, COLUMBIA 1-28, MJ 1-28, APOLLO 1-28, MIKE STROUD 1-28H, HUBBARD B1, SKYLAB 2-28 & PROPOSED HORIZONTAL WELLS MARATHON OIL COMPANY 1-10-2018
LOCATION EXCEPTION - 672016	7/20/2018 - G57 - (I.O.) 33-15N-9W X165:10-3-28(C)(2)(B) MSSSD (MIKE STROUD BIA 1509 3-28-33MXH) MAY BE CLOSER THAN 600' TO THE STROUD 33-A, DARRELL 1-33, THUNDERBULL USA 1-33, FIJI 1-33 & PROPOSED HORIZONTAL WELLS MARATHON OIL COMPANY 1-10-2018
LOCATION EXCEPTION - 672019	7/20/2018 - G57 - (I.O.) 33 & 28-15N-9W X198249 MSSSD 28-15N-9W X161901 MSSSD 33-15N-9W COMPL. INT. (33-15N-9W) NCT 150' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (28-15N-9W) NCT 0' FSL, NCT 150' FNL, NCT 330' FEL MARATHON OIL COMPANY 1-10-2018
MEMO	7/16/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 161901	7/20/2018 - G57 - (640) 33-15N-9W EXT OTHERS EST MSSSD, OTHER
SPACING - 198249	7/20/2018 - G57 - (640) 28-15N-9W EXT OTHERS EXT 139333 MSSSD, OTHER
SPACING - 672024	7/20/2018 - G57 - (I.O.) 33 & 28-15N-9W EST MULTIUNIT HORIZONTAL WELL X198249 MSSSD 28-15N-9W X161901 MSSSD 33-15N-9W 50% 33-15N-9W 50% 28-15N-9W MARATHON OIL COMPANY 1-10-2018

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

13800 WIRELESS WAY, OKLA. CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219

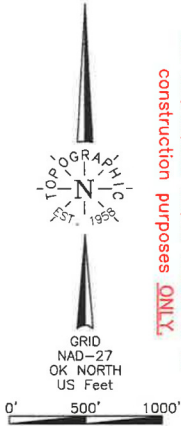
Certificate of Authorization No. 1293 LS

KINGFISHER

County, Oklahoma

API: 073 26172

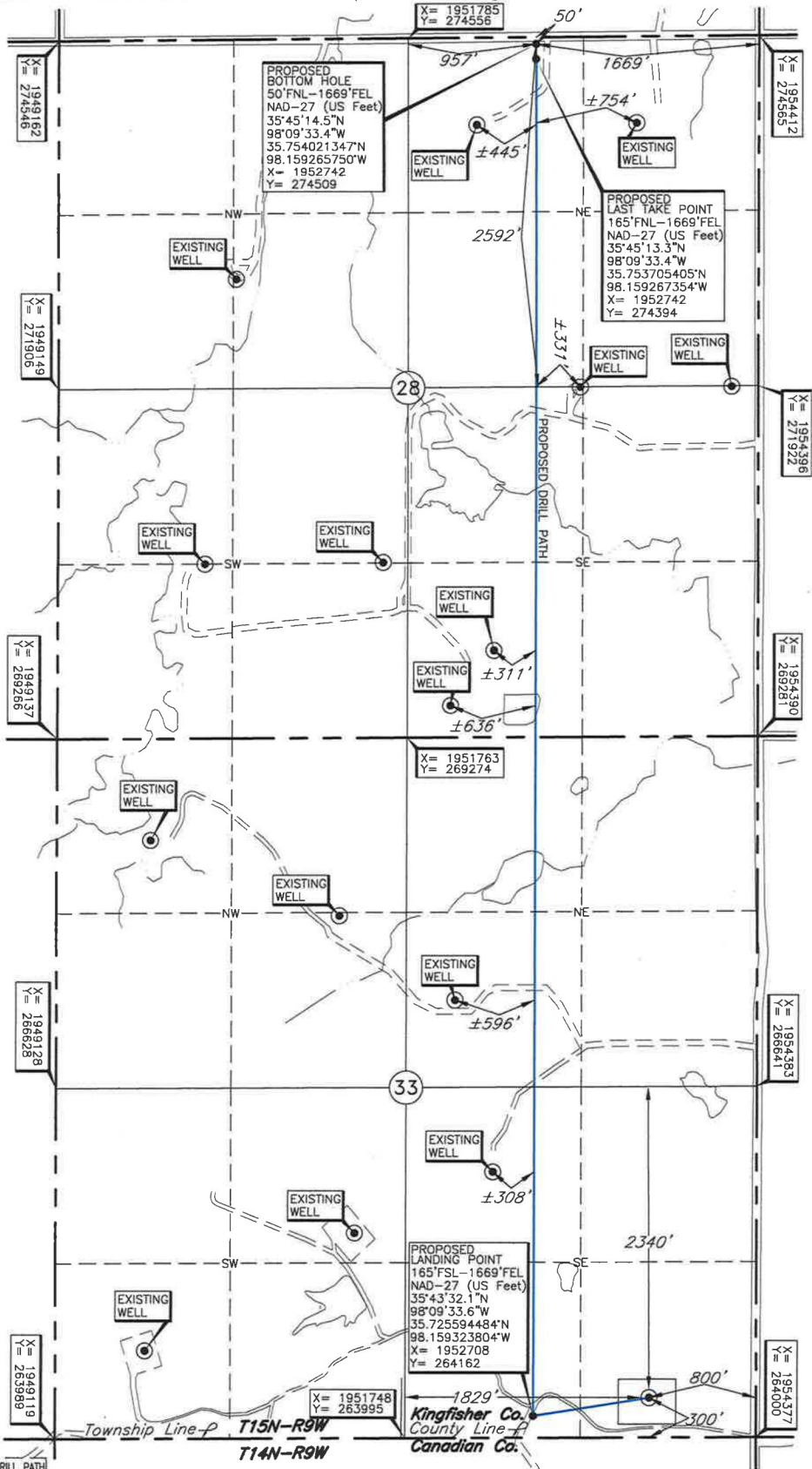
300'FSL-800'FEL Section 33 Township 15N Range 9W I.M.



NOTE:

The information shown herein is for construction purposes ONLY.

Operator: MARATHON OIL COMPANY
 Lease Name: MIKE STROUD BIA 1509
 Topography & Vegetation Loc. fell in rough pasture.
 Good Drill Site? Yes
 Best Accessibility to Location From the South off lease road.
 Distance & Direction from Hwy Jct or Town From Okarche, OK, go ±10 miles West to the SE Cor. of Sec. 33-15N-9W.
 Reference Stakes or Alternate Location Stakes Set None
 Well No.: 3-28-33MXH
 ELEVATION: 1308' Gr. at Stake NGVD29



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

DATUM: NAD-27
 LAT: 35°43'33.5\"/>

Date of Drawing: May 4, 2018
 Invoice # 293519A Date Staked: Feb. 20, 2017

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

