API NUMBER: 011 24044

Oil & Gas

Horizontal Hole

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

Approval Date: 07/19/2018
Expiration Date: 01/19/2019

## PERMIT TO DRILL

WELL LOCATION: Sec:	27	Twp:	17N	Rge:	10W	County:	BLAINE
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SPOT LOCATION: NW NE NW NE FEET FROM QUARTER: FROM NORTH FROM EAST SECTION LINES:

SECTION LINES: 260 1715

Lease Name: OLIVE JUNE 1710 Well No: 2-22-15MXH Well will be 260 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

COLETA M. STARK 24175 E. 996 ROAD

WEATHERFORD OK 73096

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

 Name
 Depth
 Name
 Depth

 1
 MERAMEC
 9093
 6

 2
 7

 3
 4
 8

 4
 9

 5
 10

Spacing Orders: 649535 Location Exception Orders: Increased Density Orders:

Pending CD Numbers: 201803757

Total Depth: 19873 Ground Elevation: 1224 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 60

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: 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 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: FLOWERPOT

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

Special Orders:

H. SEE MEMO

## 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: FLOWERPOT

## HORIZONTAL HOLE 1

Sec. 15 Twp 17N Rge 10W County **BLAINE** Spot Location of End Point: NW NF NF NW Feet From: NORTH 1/4 Section Line: 50 WEST Feet From: 1/4 Section Line: 2180

Depth of Deviation: 8757 Radius of Turn: 477 Direction: 355

Total Length: 10367

Measured Total Depth: 19873

True Vertical Depth: 9093

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

Notes:

Category Description

DEEP SURFACE CASING 7/11/2018 - 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 7/11/2018 - 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

INTERMEDIATE CASING 7/11/2018 - 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

MEMO 7/11/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 -

OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category Description

PENDING CD - 201803754 7/18/2018 - G57 - 15-17N-10W

X649535 MRMC 3 WELLS NO OP. NAMED

REC 6-4-2018 (M. PORTER)

PENDING CD - 201803755 7/18/2018 - G57 - 22-17N-10W

X649535 MRMC 3 WELLS NO OP. NAMED

REC 6-4-2018 (M. PORTER)

PENDING CD - 201803757 7/18/2018 - G57 - (I.O.) 15 & 22-17N-10W

X649535 MRMC

COMPL. INT. (22-17N-10W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (15-17N-10W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL

NO OP. NAMÈD

REC 6-4-2018 (M. PORTER)

PENDING CD - 201803758 7/18/2018 - G57 - (I.O.) 22 & 15-17N-10W

X649535 MRMC

X165:10-3-28(C)(2)(B) MRMC (OLIVE JUNE 1710 2-22-15MXH) MAY BE CLOSER THAN 600' TO

BLEHM NO. 22-2 NO OP. NAMED

REC 6-4-2018 (M. PORTER)

PENDING CD - 20183756 7/18/2018 - G57 - (I.O.) 15 & 22-17N-10W

EST MULTIUNIT HORIZONTAL WELL

X649535 MRMC 50% 15-17N-10W 50% 22-17N-10W NO OP. NAMED

REC 6-4-2018 (M. PORTER)

SPACING - 649535 7/18/2018 - G57 - (640)(HOR) 15 & 22-17N-10W

EST MRMC, OTHÈR POE TO BHL NCT 660' FB

(COEXIST W/SP. ORDER 95567 MRMC)

