API NUMBER: 073 26124

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: 06/27/2018

Expiration Date: 12/27/2018

PERMIT TO DRILL

WELL LOCATION: Sec: 15 Twp: 16N Rge: 9W County: KINGFISHER

SPOT LOCATION: NW SE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 818 910

Lease Name: RUTHIE 1609 Well No: 3-15-22MXH Well will be 818 feet from nearest unit or lease boundary.

Operator MARATHON OIL COMPANY Telephone: 7132962003 OTC/OCC Number: 1363 0

MARATHON OIL COMPANY 5555 SAN FELIPE ST

1

HOUSTON. TX 77056-2701

BOB & RUTH MURRAY TRUST

19057 N. 2710 ROAD

OMEGA OK 73764

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

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

 Name
 Depth
 Name
 Depth

 MISSISSIPPIAN (EX CHESTER)
 9140
 6

2 7 3 8 4 9 5

Spacing Orders: 658849 Location Exception Orders: Increased Density Orders: 658952

Pending CD Numbers: 201803249 Special Orders:

Total Depth: 19513 Ground Elevation: 1156 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 580

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

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: CHICKASHA

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: CHICKASHA

HORIZONTAL HOLE 1

Sec 22 Twp 16N Rge 9W County KINGFISHER

Spot Location of End Point: SW SW SE SW
Feet From: SOUTH 1/4 Section Line: 50
Feet From: WEST 1/4 Section Line: 1445

Depth of Deviation: 8440
Radius of Turn: 477
Direction: 170

Total Length: 10324

Measured Total Depth: 19513

True Vertical Depth: 9670

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

 Additional Surface Owner
 Address
 City, State, Zip

 BOB & RUTH MURRAY TRUST
 19057 N. 2710 ROAD
 OMEGA, OK 73764

Notes:

Category Description

DEEP SURFACE CASING 6/6/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF

CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR

SURFACE CASING

HYDRAULIC FRACTURING 6/6/2018 - 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 6/6/2018 - 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 6/6/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 -

OBM TO VENDOR, OBM CUTTINGS 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.

073 26124 RUTHIE 1609 3-15-22MXH

Category Description

PENDING CD - 201803242 6/26/2018 - G75 - (I.O.) 15-16N-9W

X658849 MSNLC 7 WELLS MARATHON OIL CO.

REC 5-14-2018 (DENTON)

PENDING CD - 201803243 6/26/2018 - G75 - (I.O.) 15-16N-9W

X165:10-3-28(C)(2)(B) MSNLC (RUTHIE 1609 3-15-22MXH) MAY BE CLOSER THAN 600' TO OTHER PROPOSED WELLS

MARATHON OIL CO. REC 5-14-2018 (DENTON)

PENDING CD - 201803244 6/26/2018 - G75 - (I.O.) 22-16N-9W

X658952 MSNLC

7 WELLS

MARATHON OIL CO. REC 5-14-2018 (DENTON)

PENDING CD - 201803245 6/26/2018 - G75 - (I.O.) 22-16N-9W

X165:10-3-28(C)(2)(B) MSNLC (RUTHIE 1609 3-15-22MXH)

MAY BE CLOSER THAN 600' TO OPPEL 4-22, OPPEL TRÚST 5-22 OR OTHER PROPOSED

WELLS

MARATHON OIL CO. REC 5-14-2018 (DENTON)

PENDING CD - 201803248 6/26/2018 - G75 - (I.O.) 15 & 22-16N-9W EST MULTIUNIT HORIZONTAL WELL

X658849 MSNLC 15-16N-9W X658952 MSNLC 22-16N-9W

50% 15-16N-9W 50% 22-16N-9W MARATHON OIL CO. REC 5-14-2018 (DENTON)

PENDING CD - 201803249 6/26/2018 - G75 - (I.O.) 15 & 22-16N-9W

X658849 MSNLC 15-16N-9W X658952 MSNLC 22-16N-9W

COMPL. INT. (15-16N-9W) NCT 150' FNL, NCT 0' FSL, NCT 990' FWL COMPL. INT. (22-16N-9W) NCT 0' FNL, NCT 150' FSL, NCT 990' FWL

MARATHON OIL CO. REC 5-14-2018 (DENTON)

SPACING - 658849 6/26/2018 - G75 - (640)(HOR) 15-16N-9W

EST MSNLC

POE TO BHL NLT 660' FB

(COEXIST SP. ORDER # 489218 MSSLM & ORDER # 72763 MNNG)

SPACING - 658952 6/26/2018 - G75 - (640)(HOR) 22-16N-9W

EST MSNLC

POE TO BHL NLT 660' FB

(COEXIST SP. ORDER # 165403 MSSSD W2; ORDER # 77626 MNNG W2 & ORDER #

127439/391664 MNNG E2)

