

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

API NUMBER: 017 25056

Approval Date: 08/24/2017
Expiration Date: 02/24/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 08 Twp: 13N Rge: 5W

County: CANADIAN

SPOT LOCATION: NW NE SE SW

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 300 1100

Lease Name: HAROLD ROTHER 1305

Well No: 1-8-17MXH

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

HAROLD ROTHER FARMS INC
7350 E 6TH AVENUE
EDMOND OK 73003

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	7658	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 615498

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201703402
201703405
201703401

Special Orders:

Total Depth: 18212 Ground Elevation: 1154

Surface Casing: 1000

Depth to base of Treatable Water-Bearing FM: 730

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pit

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: BISON

Approved Method for disposal of Drilling Fluids:

E. Haul to Commercial pit facility: Sec. 31 Twp. 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 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: BISON

HORIZONTAL HOLE 1

Sec 17 Twp 13N Rge 5W County CANADIAN

Spot Location of End Point: S2 SE SE SE

Feet From: SOUTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 7288

Radius of Turn: 462

Direction: 178

Total Length: 10198

Measured Total Depth: 18212

True Vertical Depth: 8284

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

Notes:

Category

Description

DEEP SURFACE CASING

8/11/2017 - G58 - 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

8/11/2017 - G58 - OCC 165:10-3-10 REQUIRE

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: [HTTP://WWW.OCCWEB.COM/OG/OGFORMS.HTML](http://www.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 [HTTP://FRACFOCUS.ORG/](http://fracfocus.org/)

MEMO

8/11/2017 - G58 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS REQUIRED. PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

Category	Description
PENDING CD - 201703401	8/18/2017 - G60 - (I.O.) 8 & 17-13N-5W EST MULTIUNIT HORIZONTAL WELL X615498 MSSP (8-13N-5W) X201703402 MSSP (17-13N-5W) 51.3% 17-13N-5W 48.7% 8-13N-5W NO OP. NAMED REC. 8/22/17 (LEAVITT)
PENDING CD - 201703403	8/18/2017 - G60 - (640)(HOR) 17-13N-5W VAC 108937 MISS EXT 620700 MSSP, OTHER COMPL. INT. NLT 660' FB REC. 8/22/17 (LEAVITT)
PENDING CD - 201703405	8/18/2017 - G60 - (I.O.) 8 & 17-13N-5W X615498 MSSP (8-13N-5W) X201703402 MSSP (17-13N-5W) COMPL. INT. (8-13N-5W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL. INT. (17-13N-5W) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC. 8/22/17 (LEAVITT)
SPACING - 615498	8/18/2017 - G60 - (640)(HOR) 8-13N-5W EST MSSP COMPL. INT. NLT 660' FB (COEXIST WITH SP. ORDER 169876/190092 MSSP)

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.