

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

API NUMBER: 051 24698

Approval Date: 08/21/2019

Expiration Date: 02/21/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 33 Twp: 7N Rge: 5W

County: GRADY

SPOT LOCATION: ☐ NE ☐ NW ☐ SE ☐ SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 1120 1749

Lease Name: ETHEL MAE 0605

Well No: 1-4-9MXH

Well will be 1120 feet from nearest unit or lease boundary.

Operator
Name: MARATHON OIL COMPANY

Telephone: 4057285228

OTC/OCC Number: 1363 0

MARATHON OIL COMPANY
PO BOX 68
OKLAHOMA CITY, OK 77001-0068

NICKEY O. CROSKEY & JEAN M. CROSKEY
1565 HIGHWAY 62
CHICKASHA OK 73018

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	12020	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 188337
153801

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201903757
201903756

Special Orders:

Total Depth: 22454

Ground Elevation: 1154

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 370

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 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

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 19-36823

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 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 09 Twp 6N Rge 5W County GRADY

Spot Location of End Point: SW SW SE SW

Feet From: SOUTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1480

Depth of Deviation: 11543

Radius of Turn: 477

Direction: 185

Total Length: 10162

Measured Total Depth: 22454

True Vertical Depth: 12039

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

Notes:

Category

Description

DEEP SURFACE CASING

8/7/2019 - 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

8/7/2019 - 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

MEMO

8/7/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - WINTER CREEK LAKE), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT

PENDING CD - 201903756

8/20/2019 - GC2 - (I.O.) 4 & 9-6N-5W
EST MULTIUNIT HORIZONTAL WELL
X188337 MSSP 4-6N-5W
X153801 MSSP 9-6N-5W
50% 4-6N-5W
50% 9-6N-5W
NO OP. NAMED
REC. 8-6-2019 (NORRIS)

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

051 24698 ETHEL MAE 0605 1-4-9MXH

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.

Category	Description
PENDING CD - 201903757	8/20/2019 - GC2 - (I.O.) 4 & 9-6N-5W X188337 MSSP 4-6N-5W X153801 MSSP 9-6N-5W COMPL. INT. (4-6N-5W) NCT 150' FNL, NCT 0' FSL, NCT 1,000' FWL COMPL. INT. (9-6N-5W) NCT 0' FNL, NCT 150' FSL, NCT 1,000' FWL NO OP. NAMED REC. 8-6-2019 (NORRIS)
SPACING - 153801	8/20/2019 - GC2 - (640) 9-6N-5W EXT 147146 MSSP, OTHERS EXT OTHER
SPACING - 188337	8/20/2019 - GC2 - (640) 4-6N-5W EXT OTHERS EXT 147146 MSSP, OTHER EST OTHER
WATERSHED STRUCTURE	8/7/2019 - G71 - WELL WITHIN 1/2 MILE OF AN OKLAHOMA CONSERVATION COMMISSION WATERSHED STRUCTURE. CONTACT THE LOCAL CONSERVATION DISTRICT OFFICE AT (405) 224-0523 PRIOR TO DRILLING

STATE PLANE
NAD-27
OK SOUTH

0' 1000' 2000'

ATWELL
866.850.4200 www.atwell-group.com
704 W. 41st Street | Sand Springs, OK 74063
OK CA #6036

REV#	DATE	DESC.
1	06/04/19	SHIFTED PAD
2	06/18/19	SHIFTED PAD
3	06/26/19	SHIFTED PAD

GRADY COUNTY, OKLAHOMA

1,120' FSL - 1,749' FWL SECTION 33 TOWNSHIP 07N RANGE 05W I.M.

PROPOSED SURFACE HOLE
1,120'FSL-1,749'FWL
NAD 27 (US FEET)
N35°01'57.6"
W97°44'06.3"
N35.032654
W97.735083
X:2079311
Y:618516

PROPOSED FIRST TAKE POINT
1,480'FWL-165'FNL
NAD 27 (US FEET)
N35°01'44.8"
W97°44'09.6"
N35.029124
W97.735988
X:2079043
Y:617231

PROPOSED LAST TAKE POINT
1,480'FWL-165'FSL
NAD 27 (US FEET)
N35°00'03.4"
W97°44'09.3"
N35.000940
W97.735929
X:2079088
Y:606973

PROPOSED BOTTOM HOLE
1,480'FWL-50'FSL
NAD 27 (US FEET)
N35°00'02.2"
W97°44'09.3"
N35.000624
W97.735928
X:2079088
Y:606858

X:2077562
Y:617393

X:2082656
Y:617404

X:2080209
Y:617398

X:2077576
Y:614744

X:2082878
Y:614761

X:2077591
Y:612095

X:2080245
Y:612104

X:2082900
Y:612113

X:2077600
Y:609449

X:2082904
Y:609467

X:2077608
Y:606804

X:2080258
Y:606811

X:2082908
Y:606818

OPERATOR: MARATHON OIL COMPANY

LEASE NAME: ETHEL MAE 0605 WELL NO.: 1-4-9MXH

TOPOGRAPHY & VEGETATION: OPEN FIELD W/INTERMITTENT TREES

GOOD DRILL SITE? YES REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET NONE

BEST ACCESS TO LOCATION: NORTH FROM COUNTY ROAD 1370

DISTANCE AND DIRECTION
FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF OK HWY. 39 & OK HWY. 9 ±6.7 MI. EAST FROM CHICKASHA OK, THENCE EAST ALONG OK HWY. 39 ±4.6 MI.
THENCE SOUTH ALONG N2950 RD ±1.0 MI. THENCE EAST ALONG COUNTY ROAD 1370 ±0.3 MI. PAD SITE IS ON THE NORTH SIDE OF THE ROAD.

DATUM: NAD 27
 LAT: 35° 01' 57.6" N
 LONG: 97° 44' 06.3" W
 LAT: 35.032654° N
 LONG: 97.735083° W
 STATE PLANE
 COORDINATES: (US FEET)
 ZONE: OK SOUTH
 X: 2079311
 Y: 618516

This information was gathered with a GPS receiver with ±1 foot Horz/Vert accuracy.

DATE OF DRAWING: 05-29-19
 DATE STAKED: 05-29-19
 JOB NO.: 19002008

CERTIFICATE:
 I, MICHAEL C. RAY, an Oklahoma Licensed Land Surveyor and an authorized agent of Atwell, LLC, do hereby certify to the information shown herein

 Oklahoma Lic. No. 1553