

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

API NUMBER: 073 26326

Approval Date: 11/01/2018

Expiration Date: 05/01/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 28 Twp: 16N Rge: 7W

County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ NE ☐ NW ☐ NW

FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 266 1121

Lease Name: FIRESTONE 1607

Well No: 2-21MH

Well will be 266 feet from nearest unit or lease boundary.

Operator Name: MARATHON OIL COMPANY

Telephone: 4057205508

OTC/OCC Number: 1363 0

MARATHON OIL COMPANY
7301 NW EXPRESSWAY STE 225
OKLAHOMA CITY, OK 73132-1590

STEPHENS LAND COMPANY
4 BEECHWOOD LANE
HUTCHISON KS 67502

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN (LESS CHESTER)	7485	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 652847

Location Exception Orders: 669725

Increased Density Orders: 670019

671414

685798

685804

Pending CD Numbers:

Special Orders:

Total Depth: 12822

Ground Elevation: 1088

Surface Casing: 470

Depth to base of Treatable Water-Bearing FM: 220

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: BISON

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 21 Twp 16N Rge 7W County KINGFISHER

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1670

Depth of Deviation: 7023

Radius of Turn: 462

Direction: 3

Total Length: 5073

Measured Total Depth: 12822

True Vertical Depth: 7762

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

Notes:

Category

Description

EXCEPTION TO RULE - 671414

11/1/2018 - G56 - (I.O.) 21-16N-7W
X165:10-3-28(C)(2)(B) MSNLC (FIRESTONE 1607 4-21MH)
MAY BE CLOSER THAN 600' TO MUEGGENBORG 1-21 WELL OR ANY OTHER WELLS IN THE
UNIT
MARATHON OIL COMPANY
12-22-2017

HYDRAULIC FRACTURING

10/26/2018 - GA8 - 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 - 670019

10/30/2018 - G56 - (I.O.) 21-16N-7W
X652847 MSNLC
9 WELLS
MARATHON OIL COMPANY
11/14/2017

INCREASED DENSITY - 685798

11/1/2018 - G56 - EXTEND 670019 TO 11/14/2019

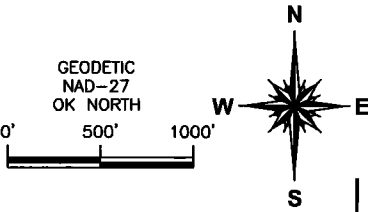
This permit does not address the right of entry or settlement of surface damages.

073 26326 FIRESTONE 1607 2-21MH

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
LOCATION EXCEPTION - 669725	10/30/2018 - G56 - (I.O.) 21-16N-7W X652847 MSNLC COMPL INT NCT 150' FSL, NCT 150' FNL, NCT 330' FWL MARATHON OIL COMPANY 11/3/2017
LOCATION EXCEPTION - 685804	11/1/2018 - G56 - EXTEND 669725 TO 11/3/2019
MEMO	10/26/2018 - GA8 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 652847	10/30/2018 - G56 - (640)(HOR) 21-16N-7W EXT 646887 MSNLC, OTHER COMPL INT NLT 660' FB (COEXIST WITH SP # 494881 MSSLM)



GEODETIC
NAD-27
OK NORTH

0' 500' 1000'



ATWELL
770.423.0807 www.atwell-group.com
1255 Lakes Parkway, Bldg. 100, Suite 120
Lawrenceville, GA 30043

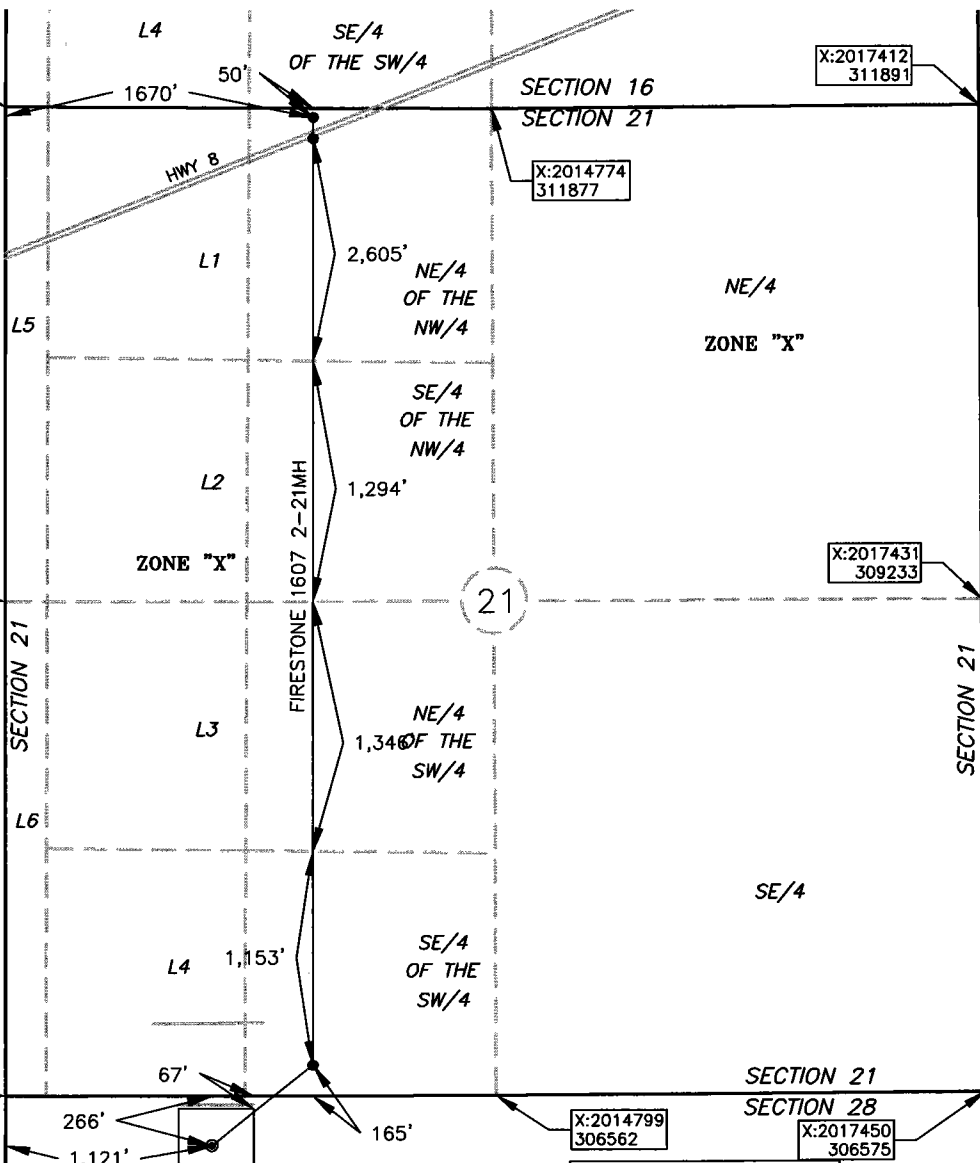
KINGFISHER COUNTY, OKLAHOMA
1121' FWL - 266' FNL SECTION 28 TOWNSHIP 16N RANGE 7W I.M.

**PROPOSED
BOTTOM HOLE**
50' FNL - 1670' FWL
NAD 27 (US FEET)
N35°51'23.9"
W97°57'12.2"
N35.856647
W97.953395
X:2013811
Y:311829

**PROPOSED
LAST TAKE POINT**
165' FNL - 1670' FWL
NAD 27 (US FEET)
N35°51'22.8"
W97°57'12.2"
N35.856331
W97.953396
X:2013811
Y:311714

**PROPOSED
FIRST TAKE POINT**
165' FNL - 1670' FWL
NAD 27 (US FEET)
N35°50'33.5"
W97°57'12.3"
N35.842626
W97.953419
X:2013806
Y:306725

**PROPOSED
SURFACE HOLE**
1121' FWL - 266' FNL
SECT. 28
NAD 27 (US FEET)
N35°50'29.2"
W97°57'19.0"
N35.841437
W97.955273
X:2013257
Y:306292



X:2012141
311883

X:2017412
311891

X:2014774
311877

X:2017431
309233

X:2012138
309220

X:2012136
306556

X:2014799
306562

X:2017450
306575

OPERATOR: MARATHON OIL COMPANY
LEASE NAME: FIRESTONE 1607
TOPOGRAPHY & VEGETATION: OPEN FIELD
WELL NO.: 2-21MH

ELEVATION:
1,088' GR. AT STAKE NAVD88
1,085' GR. AT STAKE NGVD29

GOOD DRILL SITE? YES
REFERENCE STAKES OR ALTERNATE LOCATION STAKES SET NONE
BEST ACCESS TO LOCATION: E0810 RD. (E. WILL ROGERS DR.)
DISTANCE AND DIRECTION FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF OK E0810 RD (E. WILL ROGERS DR.) AND S. MAIN ST. (HWY.3). IN KINGFISHER OK. DRIVE WEST E0810 RD. FOR APPROX. 1.5 MILES. SITE IS IN THE FIELD ON THE SOUTH SIDE OF THE ROAD.

DATUM: NAD 27

LAT: 35° 50' 29.2" N

LONG: 97° 57' 19.0" W

LAT: 35.841437° N

LONG: 97.955273° W

STATE PLANE COORDINATES: (US FEET)

ZONE: OK SOUTH

X: 2013257

Y: 306292

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

DATE OF DRAWING: 08/13/18

DATE STAKED: 08/03/18

JOB NO.: 18002578

CERTIFICATE:

I, DAVID L. ANDERSON an Oklahoma Licensed Land Surveyor and an authorized agent of Atwell, LLC, do hereby certify to the information shown herein

David L. Anderson 8/20/18

Oklahoma Lic. No. 1927

