

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

API NUMBER: 073 26327

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 1101

Lease Name: FIRESTONE 1607

Well No: 1-21MH

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	7485	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: No Spacing

Location Exception Orders: 671323

Increased Density Orders: 670019

671414

685807

Pending CD Numbers:

Special Orders:

Total Depth: 12828

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: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 7023

Radius of Turn: 462

Direction: 355

Total Length: 5079

Measured Total Depth: 12828

True Vertical Depth: 7763

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

LOCATION EXCEPTION - 671323

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
12/19/2017

LOCATION EXCEPTION - 685807

11/1/2018 - G56 - EXTEND 671323 TO 12/19/2019

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

073 26327 FIRESTONE 1607 1-21MH

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
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)



ATWELL
770.423.0807 www.atwell-group.com

1255 Lakes Parkway, Bldg. 100, Suite 120
Lawrenceville, GA 30043

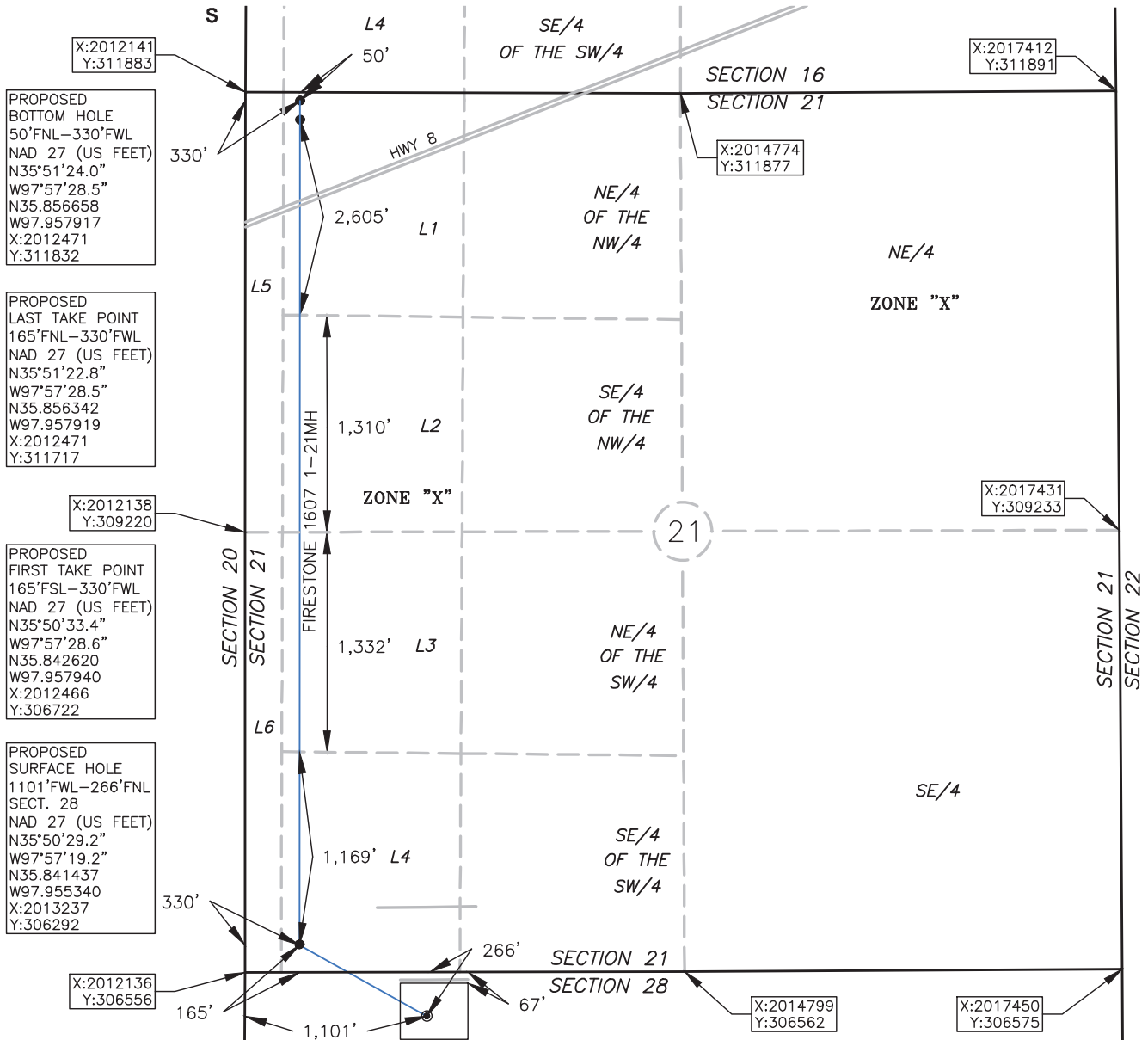
GEODETIC
NAD-27
OK NORTH

0' 500' 1000'



KINGFISHER COUNTY, OKLAHOMA

1101' FWL - 266' FNL SECTION 28 TOWNSHIP 16N RANGE 7W I.M.



OPERATOR: MARATHON OIL COMPANY

LEASE NAME: FIRESTONE 1607

WELL NO.: 1-21MH

TOPOGRAPHY & VEGETATION: OPEN FIELD

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' 19.2" W
LAT: 35.841437° N
LONG: 97.955340° W

STATE PLANE
COORDINATES: (US FEET)
ZONE: OK SOUTH

X: 2013237
Y: 306292

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

JOB NO.: 18002577

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

DATE OF DRAWING: 08/13/18

DATE STAKED: 08/03/18

