

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

API NUMBER: 073 26329

Approval Date: 11/01/2018

Expiration Date: 05/01/2020

Horizontal Hole Oil & Gas

PERMIT TO DRILL

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

County: KINGFISHER

SPOT LOCATION: ☐ NW ☐ NW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 1122 1083

Lease Name: FIRESTONE 1607

Well No: 4-21MH

Well will be 1083 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

CHARLENE MCINTOSH
4413 NORTH VERMONT AVE
OKLAHOMA CITY OK 73112

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: 671520

Increased Density Orders: 670019

671414

685798

685799

Pending CD Numbers:

Special Orders:

Total Depth: 13769

Ground Elevation: 1044

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 200

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 located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 21 Twp 16N Rge 7W County KINGFISHER

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: 7513

Radius of Turn: 462

Direction: 175

Total Length: 4742

Measured Total Depth: 12981

True Vertical Depth: 8236

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

| Additional Surface Owner | Address | City, State, Zip |
|--------------------------|---------------------|----------------------|
| RONALD FIRESTONE | 1456 CR 1190 | TUTTLE, OK 73089 |
| SHERYL TURNER | 139 BLUE MOON COURT | SPRINGTOWN, TX 76082 |
| WESLEY FIRESTONE | 1345 CR 1300 | CHICKASHA, OK 73018 |
| ROBERT FIRESTONE | 1120 SEQUOYAH TRAIL | NORMAN, OK 73071 |

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

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

073 26329 FIRESTONE 1607 4-21MH

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 |
|-----------------------------|---|
| INCREASED DENSITY - 670019 | 10/31/2018 - G56 - (I.O.) 21-16N-7W X652847 MSNLC 9 WELLS MARATHON OIL COMPANY 11/14/2017 |
| LOCATION EXCEPTION - 671520 | 10/31/2018 - G56 - (I.O.) 21-16N-7W X652847 MSNLC COMPL INT NCT 150' FNL, NCT 150' FSL, NCT 330' FEL MARATHON OIL COMPANY 12/28/2017 |
| LOCATION EXCEPTION - 685799 | 11/1/2018 - G56 - EXTEND 671520 TO 12/28/2019 |
| MEMO | 10/26/2018 - GA8 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS REQUIRED (KINGFISHER CREEK), PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT |
| SPACING - 652847 | 10/31/2018 - G56 - (640)(HOR) 21-16N-7W EXT 646887 MSNLC, OTHER COMPL INT NLT 660' FB (COEXIST WITH SP # 494881 MSSLM) |

