

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

API NUMBER: 011 23976

Approval Date: 03/28/2018
Expiration Date: 09/28/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 16N Rge: 10W County: BLAINE
SPOT LOCATION: NE NE NW NW FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 238 1236

Lease Name: IRVEN JOHN 1710 Well No: 2-34-27MXH Well will be 238 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

EDWARD QUINTLE & VELTA QUINTLE
28212 STATE HIGHWAY 33
OMEGA OK 73764

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	9361	6
2			7
3			8
4			9
5			10

Spacing Orders: 648021 Location Exception Orders: 673558 Increased Density Orders: 673555
648022 673553 673557
673556

Pending CD Numbers:

Special Orders:

Total Depth: 20093 Ground Elevation: 1227 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 40

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: 8000 Average: 5000

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: CHICKASHA

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: CHICKASHA

HORIZONTAL HOLE 1

Sec 27 Twp 17N Rge 10W County BLAINE

Spot Location of End Point: NE NW NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1949

Depth of Deviation: 9001

Radius of Turn: 477

Direction: 355

Total Length: 10343

Measured Total Depth: 20093

True Vertical Depth: 10130

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

Notes:

Category

Description

DEEP SURFACE CASING

3/16/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

EXCEPTION TO RULE - 673553

3/23/2018 - G75 - (E.O.) 27-17N-10W
X165:10-3-28(C)(2)(B) MSSP (IRVEN JOHN 1710 2-34-27MXH)
MAY BE CLOSER THAN 600' TO STEPHEN 27-1
MARATHON OIL CO.
2-12-2018

HYDRAULIC FRACTURING

3/16/2018 - 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

INCREASED DENSITY - 673555

3/23/2018 - G75 - (E.O.) 27-17N-10W
X648021 MSSP
3 WELLS
MARATHON OIL CO.
2-12-2018

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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.

011 23976 IRVEN JOHN 1710 2-34-27MXH

Category	Description
INCREASED DENSITY - 673557	3/23/2018 - G75 - (E.O.) 34-17N-10W X648022 MSSP 3 WELLS MARATHON OIL CO. 2-12-2018
INTERMEDIATE CASING	3/16/2018 - G71 - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVER-PRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
LOCATION EXCEPTION - 673558	3/23/2018 - G75 - (E.O.) X648022 MSSP 34-17N-10W X648021 MSSP 27-17N-10W SHL (3-16N-10W) 238' FNL, 1236' FEL ** COMPL. INT. (34-17N-10W) NCT 165 FSL, NCT 0 FNL, NCT 1980 FWL ++ COMPL. INT. (27-17N-10W) NCT 0 FSL, NCT 165 FNL, NCT 1980 FWL ++ MARATHON OIL CO. 2-12-2018 ** ITD HAS SHL AS 1236' FWL 3-16N-10W; TO BE CORRECTED AT THE HEARING FOR THE FINAL ORDER LOCATION EXCEPTION PER OP. ++ ITD HAS LATERAL AS 1949' FWL; TO BE CORRECTED AT THE HEARING FOR THE FINAL ORDER LOCATION EXCEPTION PER OP.
MEMO	3/16/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT
SPACING - 648021	3/23/2018 - G75 - (640)(HOR) 27-17N-10W VAC 95567 CRLM, OSGE EST MSSP, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 95567 MRMC)
SPACING - 648022	3/23/2018 - G75 - (640)(HOR) 34-17N-10W VAC 95567 CRLM, MRMC, OSGE EST MSSP, OTHER POE TO BHL NCT 660' FB
SPACING - 673556	3/23/2018 - G75 - (E.O.) 34 & 27-17N-10W EST MULTIUNIT HORIZONTAL WELL X648022 MSSP 34-17N-10W X648021 MSSP 27-17N-10W 50% 34-17N-10W 50% 27-17N-10W MARATHON OIL CO. 2-12-2018

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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.

REV#	DATE	DESC.
1	12/19/17	MOVED SHL
2	01/08/18	FLOOD ZONE INFO
3	02/02/18	MOVED WELL SLOT



BLAINE COUNTY, OKLAHOMA

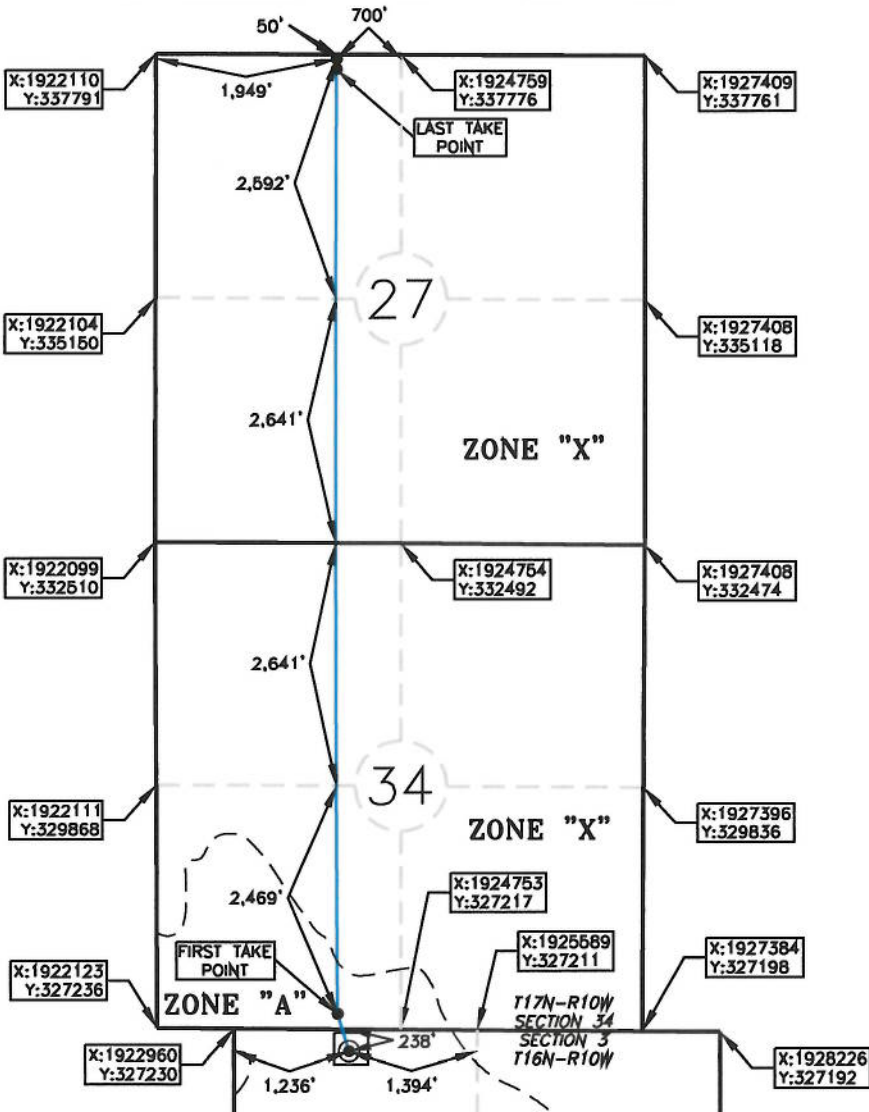
238' FNL - 1,236' FWL SECTION 3 TOWNSHIP 16N RANGE 10W I.M.

PROPOSED
BOTTOM HOLE
50'FNL-1,949'FWL
NAD 27 (US FEET)
N35°55'39.1"
W98°15'23.4"
N35.927535
W98.256492
X:1924059
Y:337730

PROPOSED
LAST TAKE POINT
165'FNL-1,949'FWL
NAD 27 (US FEET)
N35°55'38.0"
W98°15'23.4"
N35.927219
W98.256492
X:1924059
Y:337615

PROPOSED
FIRST TAKE POINT
165'FSL-1,949'FWL
NAD 27 (US FEET)
N35°53'56.8"
W98°15'22.9"
N35.899122
W98.256358
X:1924071
Y:327367

PROPOSED
SURFACE HOLE
238'FNL-1,236'FWL
NAD 27 (US FEET)
N35°53'52.8"
W98°15'21.4"
N35.898013
W98.255935
X:1924196
Y:326983



OPERATOR: MARATHON OIL COMPANY
LEASE NAME: IRVEN JOHN 1710
TOPOGRAPHY & VEGETATION: CULTIVATED FIELD

WELL NO.: 2-34-27MXH

ELEVATION:
1,229' GR. AT STAKE NAVD88
1,227' GR. AT STAKE NGVD29

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

BEST ACCESS TO LOCATION: E0770 RD TO THE NORTH

DISTANCE AND DIRECTION FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF US HWY 281 AND OK HWY 3 IN WATONGA, OK DRIVE EAST APPROX. 8.9 MILES. THEN TAKE N2660 RD NORTH FOR APPROX. 4 MILES. THEN DRIVE EAST ON E0770 RD FOR APPROX. .25 MILES. THE SITE IS IN THE FIELD ON THE SOUTH SIDE OF THE ROAD.

DATUM: NAD 27
LAT: 35° 53' 52.8" N
LONG: 98° 15' 21.4" W
LAT: 35.898013° N
LONG: 98.255935° W
STATE PLANE COORDINATES: (US FEET)
ZONE: OK NORTH
X: 1924196
Y: 326983

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

DATE OF DRAWING: 11/6/17
JOB NO.: 17003087 DATE STAKED: 11/2/17

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

David L. Anderson 02/02/18
Oklahoma Lic. No. 1927

