

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

API NUMBER: 011 23928

Approval Date: 01/30/2018

Expiration Date: 07/30/2018

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 03 Twp: 16N Rge: 10W County: BLAINE
SPOT LOCATION: ☐ NW ☐ NE ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 234 1733

Lease Name: IRVEN JOHN 1710 Well No: 4-34-27MXH Well will be 234 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

PALMER S. HAFFNER & MARCIA DIANNE JOHNSON
8317 NW 71ST STREET
OKLAHOMA CITY OK 73132

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

Name	Depth	Name	Depth
1 MISSISSIPPIAN	9337	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 648021
648022

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201800207
201800202
201800204
201800208

Special Orders:

Total Depth: 20064 Ground Elevation: 1243 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

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: FLOWERPOT

E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 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: FLOWERPOT

HORIZONTAL HOLE 1

Sec 27 Twp 17N Rge 10W County BLAINE

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 8967

Radius of Turn: 477

Direction: 5

Total Length: 10348

Measured Total Depth: 20064

True Vertical Depth: 10106

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

Notes:

Category

Description

DEEP SURFACE CASING

1/23/2018 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY FOR ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/23/2018 - 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

INTERMEDIATE CASING

1/23/2018 - 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

MEMO

1/23/2018 - G71 - PIT 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST; PIT 2 - OBM TO VENDOR, OBM CUTTINGS PER DISTRICT

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.

011 23928 IRVEN JOHN 1710 4-34-27MXH

Category	Description
PENDING CD - 201800202	1/24/2018 - G75 - (E.O.) 27-17N-10W X648021 MSSP 3 WELLS MARATHON OIL CO. REC 1-16-2018 (M. PORTER)
PENDING CD - 201800204	1/24/2018 - G75 - (E.O.) 34-17N-10W X648022 MSSP 3 WELLS MARATHON OIL CO. REC 1-16-2018 (M. PORTER)
PENDING CD - 201800207	1/24/2018 - G75 - (E.O.) 34 & 27-17N-10W X648022 MSSP 34-17N-10W X648021 MSSP 27-17N-10W COMPL. INT. (34-17N-10W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. (27-17N-10W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL MARATHON OIL CO. REC 1-23-2018 (JACKSON)
PENDING CD - 201800208	1/24/2018 - 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. REC 1-16-2018 (M. PORTER)
SPACING - 648021	1/24/2018 - G75 - (640)(HOR) 27-17N-10W VAC 95567 CRLM, OSGE EST MSSP, OTHER POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 95567 MPMC)
SPACING - 648022	1/24/2018 - G75 - (640)(HOR) 34-17N-10W VAC 95567 CRLM, MPMC, OSGE EST MSSP, OTHER POE TO BHL NCT 660' FB

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.

REV#	DATE	DESC.
1	12/14/17	RENUMBERED WELL



ATWELL
866.850.4200 www.atwell-group.com

4271 South Lee St., Suite 202
Buford, GA 30518
C.O.A. No. CA 6036

BLAINE COUNTY, OKLAHOMA

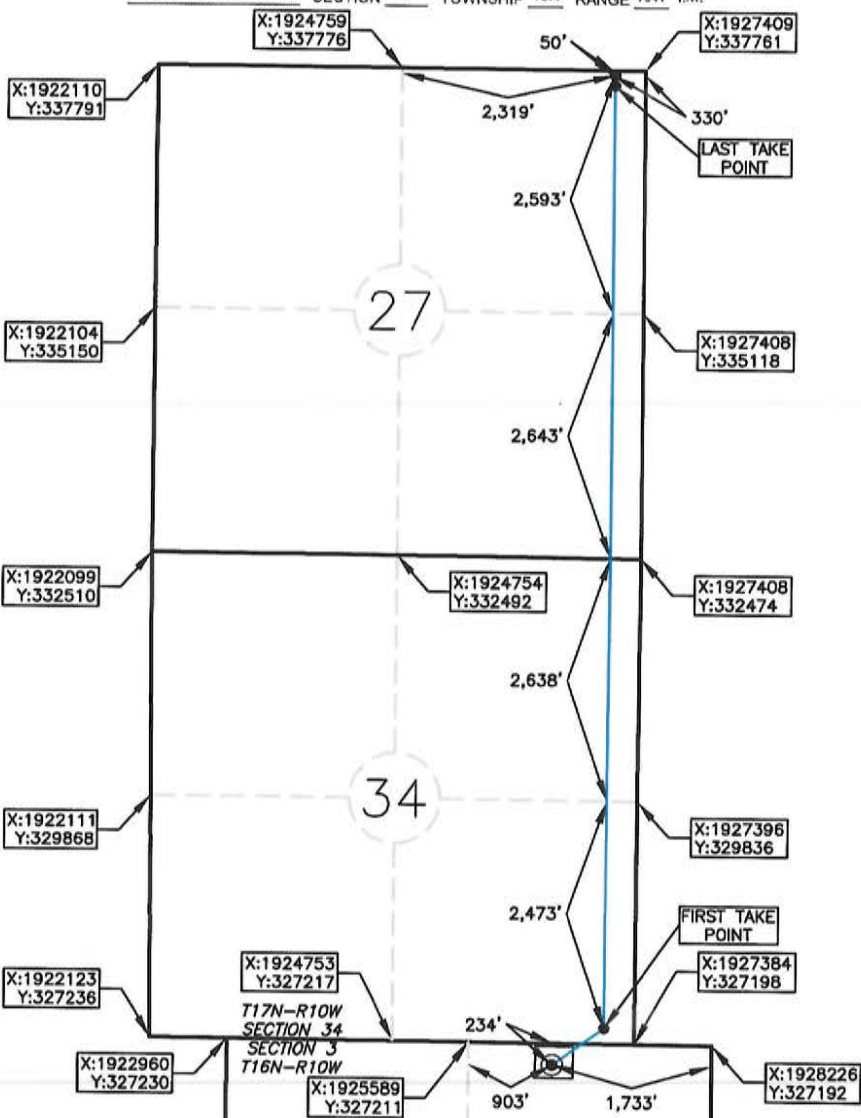
234' FNL - 1,733' FEL SECTION 3 TOWNSHIP 16N RANGE 10W I.M.

PROPOSED
BOTTOM HOLE
50'FNL-330'FEL
NAD 27 (US FEET)
N35°55'39.0"
W98°14'46.7"
N35.927511
W98.246293
X:1927079
Y:337713

PROPOSED
LAST TAKE POINT
165'FNL-330'FEL
NAD 27 (US FEET)
N35°55'37.9"
W98°14'46.7"
N35.927195
W98.246292
X:1927079
Y:337598

PROPOSED
FIRST TAKE POINT
165'FNL-330'FEL
NAD 27 (US FEET)
N35°53'56.7"
W98°14'46.6"
N35.899083
W98.246284
X:1927055
Y:327365

PROPOSED
SURFACE HOLE
234'FNL-1,733'FEL
NAD 27 (US FEET)
N35°53'52.8"
W98°14'53.5"
N35.897996
W98.248181
X:1926492
Y:326971



OPERATOR: MARATHON OIL COMPANY

LEASE NAME: IRVEN JOHN 1710

WELL NO.: 4-34-27MXH

TOPOGRAPHY & VEGETATION: CULTIVATED FIELD

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. .6 MILES. THE SITE IS IN THE FIELD ON THE SOUTH SIDE OF THE ROAD.

ELEVATION:

1,245' GR. AT STAKE NAVD88

1,243' GR. AT STAKE NGVD29

DATUM: NAD 27

LAT: 35° 53' 52.8" N

LONG: 98° 14' 53.5" W

LAT: 35.897996° N

LONG: 98.248181° W

STATE PLANE
COORDINATES: (US FEET)

ZONE: OK NORTH

X: 1926492

Y: 326971

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

JOB NO.: 17003089

DATE OF DRAWING: 11/6/17

DATE STAKED: 11/2/17

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
Oklahoma Lic. No. 1927

12/15/17

