

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

API NUMBER: 011 24177

Approval Date: 02/14/2019

Expiration Date: 08/14/2020

Horizontal Hole
Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 25 Twp: 17N Rge: 10W

County: BLAINE

SPOT LOCATION: ☐ NW ☐ NW ☐ NW ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 2386 2383

Lease Name: LLOYD 1710

Well No: 2-25-24MXH

Well will be 2383 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

STEVE & PATTY MENDELL
14112 N 2770 ROAD
LOYAL OK 73756

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	8320	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 650409

Location Exception Orders:

Increased Density Orders: 689234

689235

Pending CD Numbers: 201809328
201809327

Special Orders:

Total Depth: 17044

Ground Elevation: 1247

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 190

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 24 Twp 17N Rge 10W County BLAINE

Spot Location of End Point: NW NW NE NW

Feet From: NORTH 1/4 Section Line: 50

Feet From: WEST 1/4 Section Line: 1620

Depth of Deviation: 8612

Radius of Turn: 462

Direction: 350

Total Length: 7707

Measured Total Depth: 17044

True Vertical Depth: 9527

End Point Location from Lease,
Unit, or Property Line: 2386

Notes:

Category

Description

DEEP SURFACE CASING

1/10/2019 - G71 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING

HYDRAULIC FRACTURING

1/10/2019 - 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 - 689234

2/13/2019 - G58 - 24-17N-10W
X249128 MSSP
3 WELLS
NO OP. NAMED
1/4/2019

INCREASED DENSITY - 689235

2/13/2019 - G58 - 25-17N-10W
X650409 MSSP
6 WELLS
NO OP. NAMED
1/4/2019

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

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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.

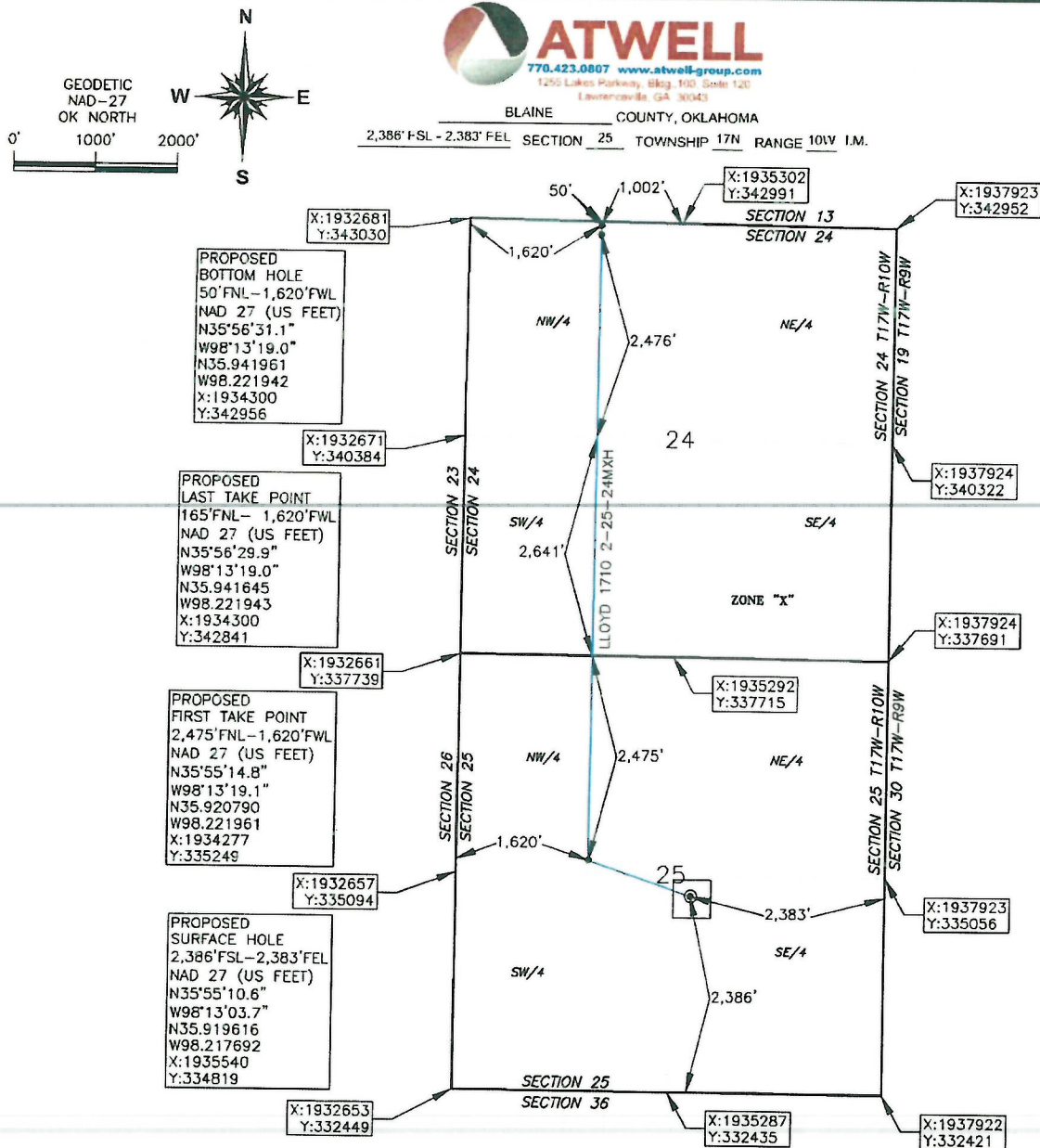
011 24177 LLOYD 1710 2-25-24MXH

Category	Description
INTERMEDIATE CASING	1/10/2019 - 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	1/10/2019 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201809327	2/13/2019 - G58 - (I.O.) 24 & 25-17N-10W EST MULTIUNIT HORIZONTAL WELL X649128 MSSP X650409 MSSP 67% 24-17N-10W 33% 25-17N-10W NO OP. NAMED REC 12/17/2018 (P. PORTER)
PENDING CD - 201809328	2/13/2019 - G58 - (I.O.) 24 & 25-17N-10W X649128 MSSP X650409 MSSP COMPL. INT. 25-17N-10W NCT 150' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 24-17N-10W NCT 0' FSL, NCT 150' FNL, NCT 330' FWL NO OP. NAMED REC 12/17/2018 (P. PORTER)
SPACING - 649128	2/13/2019 - G58 - (640)(HOR) 24-17N-10W VAC 121396 MSSNC, MNNG, MSSD SW4 VAC 121396 MNNG NE4 EXT 644205 MSSP, OTHERS POE TO BHL NLT 660' FB (COEXIST SP. ORDER 121396 MSSNC, MSSSD NE4 & ORDER 121396 MSSNC, MNNG, MSSSD NW4, SE4)
SPACING - 650409	2/13/2019 - G58 - (640)(HOR) 25-17N-10W VAC OTHERS VAC 121396 MSSNC, MNNG, MSSSD W2 VAC 121396 MNNG SE4 EXT 644205 MSSP, OTHERS POE TO BHL NCT 660' FB (COEXIST SP. ORDER # 121396 MSSNC, MNNG, MSSSD NE4 & ORDER # 121396 MSSNC, MSSSD SE4)

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

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OPERATOR: MARATHON OIL COMPANY

LEASE NAME LLOYD 1710

WELL NO. 2-25-24MXH

TOPOGRAPHY & VEGETATION: OPEN FIELD

ELEVATION:

1,247' GR. AT STAKE NAVD88

1,244' GR. AT STAKE NGVD29

GOOD DRILL SITE? YES

REFERENCE STAKES OR ALTERNATE LOCATION
STAKES SET NONE

BEST ACCESS TO LOCATION: E0760 TO THE SOUTH

DISTANCE AND DIRECTION

FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF OK HWY 8 AND E0760 RD. 3.8 MILES SOUTH OF HITCHCOCK. OK. DRIVE EAST ALONG E0760 RD. FOR APPROX. 7.6

MILES. SITE IS IN THE FIELD ON THE NORTH SIDE OF THE ROAD.

DATUM: NAD 27

LAT. 35° 55' 10.6" N

LONG. 98° 13' 03.7" W

LAT. 35.919616° N

LONG. 98.217692° W

STATE PLANE
COORDINATES (US FEET)

ZONE: OK NORTH

X: 1935540

Y: 334819

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

DATE OF DRAWING: 11/5/18

JOB NO. 18003490

DATE STAKED: 10/29/18

CERTIFICATE:

I, DAVID L. ANDERSON, an Oklahoma Licensed Land
Surveyor and an authorized agent of Atwell, LLC, do
hereby certify to the information shown hereinDavid L. Anderson 2-6-19
Oklahoma Lic. No. 1927