

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

API NUMBER: 017 25352

Approval Date: 01/14/2019

Expiration Date: 07/14/2020

Horizontal Hole  
Multi Unit  
Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 20 Twp: 13N Rge: 7W

County: CANADIAN

SPOT LOCATION: SW SE SE NE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 215 393

Lease Name: CHEYENNE-ARAPAHO BIA 1307

Well No: 1-20-17 WXH

Well will be 393 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

CHEYENNE ARAPAHO TRIBES  
C/O DAMON DUNBAR  
100 RED MOON CIRCLE  
CONCHO OK 73022

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

Name	Depth	Name	Depth
1 WOODFORD	9790	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 644920  
646207  
683407  
686444

Location Exception Orders: 686359

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 17254

Ground Elevation: 1318

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 260

Under Federal Jurisdiction: Yes

Fresh Water Supply Well Drilled: Yes

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 17 Twp 13N Rge 7W County CANADIAN

Spot Location of End Point: N2 N2 NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 660

Depth of Deviation: 9358

Radius of Turn: 462

Direction: 358

Total Length: 7170

Measured Total Depth: 17254

True Vertical Depth: 10203

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

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

12/29/2018 - 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

12/29/2018 - 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](http://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](http://FRACFOCUS.ORG)

#### LOCATION EXCEPTION - 686359

1/14/2019 - GB1 - (I.O.) 17 & N2 20-13N-7W  
X644920 WDFD N2 20-13N-7W  
X683407 WDFD 17-13N-7W  
COMPL. INT. (17-13N-7W) NCT 150' FNL, NCT 0' FSL, NCT 330' FEL  
COMPL. INT. (N2 20-13N-7W) NCT 0' FNL, NCT 150' FSL, NCT 330' FEL  
MARATHON OIL COMPANY  
11/8/2018

#### MEMO

12/29/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED 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.

017 25352 CHEYENNE-ARAPAHO BIA 1307  
1-20-17 WXH

Category	Description
SPACING - 644920	1/14/2019 - GB1 - (320)(HOR) N2, S2 20-13N-7W AMD 630646 WDFD, OTHERS COMPL. INT. NLT 165' FNL & FSL, NTL 330' FEL & FWL
SPACING - 646207	1/14/2019 - GB1 - NPT PARAGRAPH 8.2 OF 644920 TO CHANGE IN FACTS AND CIRCUMSTANCES RELATING TO BIA APPROVING LEASE
SPACING - 683407	1/14/2019 - GB1 - (640)(HOR) 17-13N-7W VAC OTHERS EXT 645281 WDFD, OTHER COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 686444	1/14/2019 - GB1 - (I.O.) 17 & N2 20-13N-7W EST MULTIUNIT HORIZONTAL WELL X644920 WDFD N2 20-13N-7W X683407 WDFD 17-13N-7W 66% 17-13N-7W 34% N2 20-13N-7W MARATHON OIL COMPANY 11/9/2018

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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.

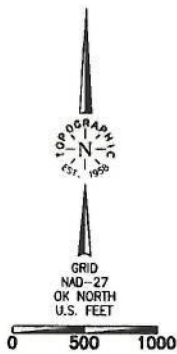
## TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

13800 WIRELESS WAY, OKLA CITY, OKLA. 73134 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219  
Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

215° FSL - 393° FEL - NE/4 Section 20 Township 13N Range 7W I.M. 50'

X 2012320  
Y 221844

## -NOTE-

The information shown herein is for construction purposes ONLY.

Operator: MARATHON OIL COMPANY  
 Lease Name: CHEYENNE-ARAPAHO BIA 1307  
 Topography & Vegetation: Location fall in flat open field. N-S fence 210' East. N-S Powerline 231' East. E-W Powerline 218' South. E-W fence 220' South.  
 Good Drill Site? Yes  
 Reference Stokes Set (1) 200' South Elev. 1318' (2) 190' East Elev. 1318' of the Cheyenne-Arapaho BIA 1307 1-20-17MXH stake.  
 Best Accessibility to Location: From East off U.S. Hwy. 81  
 Distance & Direction: From U.S. Hwy. 81 North of El Reno, Ok. and the Concho turn off, go ±0.25 mile South on U.S. Hwy. 81 to the NE corner of Section 20, 13N - 7W

Well No.: 1-20-17MXH

## ELEVATION:

1318' G. at Stake (NGVD29)

LANDING POINT, LAST TAKE POINT, BOTTOM HOLE AND DRILL PATH INFORMATION PROVIDED BY OPERATOR LISTED, NOT SURVEYED.

DATUM: NAD-27  
 LAT: 35°35'17.5"N  
 LONG: 97°57'36.0"W  
 LAT: 35.588196706°N  
 LONG: 97.960010477°W  
 STATE PLANE  
 COORDINATES: (US Feet)  
 ZONE: OK NORTH  
 X: 2011891  
 Y: 214112

Invoice # 287058 Date of Drawing: January 27, 2018 Date Staked: January 18, 2018 RKM

## CERTIFICATE:

I, Thomas L. Howell, an Oklahoma Licensed Land Surveyor and an authorized agent of Topographic Land Surveyors of Oklahoma, do hereby certify to the information shown herein

*Thomas L. Howell*  
 Oklahoma Lic. No. 1433

