

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

API NUMBER: 017 25353

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: 215 373

Lease Name: CHEYENNE-ARAPAHO BIA 1307 Well No: 1-20-17 MXH Well will be 373 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 MISSISSIPPIAN	9328	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 644920
646207
683407
686443

Location Exception Orders: 686358

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 17009

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

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

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 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 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 9113

Radius of Turn: 462

Direction: 1

Total Length: 7170

Measured Total Depth: 17009

True Vertical Depth: 9958

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; 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

LOCATION EXCEPTION - 686358

1/14/2019 - GB1 - (I.O.) 17 & N2 20-13N-7W
X644920 MSSP N2 20-13N-7W
X683407 MSSP 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 25353 CHEYENNE-ARAPAHO BIA 1307
1-20-17 MXH

Category	Description
SPACING - 644920	1/14/2019 - GB1 - (320)(HOR) N2 & S2 20-13N-7W AMD 630646 MSSP, OTHERS COMPL. INT. NCT 660' FB
SPACING - 646207	1/14/2019 - GB1 - NPT PARAGRAPH 8.2 OF 644920 TO CHANGE THE FACTS AND CIRCUMSTANCES RELATING TO BIA APPROVING LEASE
SPACING - 683407	1/14/2019 - GB1 - (640)(HOR) 17-13N-7W VAC 163530 MSCST, MISS EXT 645281 MSSP, OTHER COMPL. INT. NLT 660' FB
SPACING - 686443	1/14/2019 - GB1 - (I.O.) 17 & N2 20-13N-7W EST MULTIUNIT HORIZONTAL WELL X644920 MSSP N2 20-13N-7W X683407 MSSP 17-13N-7W 66% 17-13N-7W 34% N2 20-13N-7W MARATHON OIL COMPANY 11/9/2018

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TOPOGRAPHIC LAND SURVEYORS OF OKLAHOMA

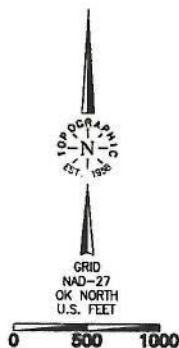
6709 NORTH CLASSEN BLVD., OKLA. CITY, OKLA. 73116 • LOCAL (405) 843-4847 • OUT OF STATE (800) 654-3219

Certificate of Authorization No. 1293 LS

CANADIAN

County, Oklahoma

215' FSL - 373' FEL - NE/4 Section 20 Township 13N Range 7W 1.M.

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: flat open field. N-S fence 190' East. N-S Powerline 191' East. E-W Powerline 218' South. E-W fence 220' South.
Good Drill Site? Yes
Reference Stakes Set (1) 200' South Elev. 1318' (2) 190' East Elev. 1318'
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 Corcho turn off, go ±0.25 mile South on U.S. Hwy. 81 to the NE corner of Section 20, T13N - R7W

Well No.: 1-20-17MXH

ELEVATION:

1318' Gr. at Stake (NGVD29)

FIRST PERF, LAST PERF, BOTTOM HOLE
AND DRILL PATH INFORMATION PROVIDED
BY OPERATOR LISTED, NOT SURVEYED.

DATUM: NAD-27
LAT: 35°35'17.5"N
LONG: 97°57'35.8"W
LAT: 35.588196601°N
LONG: 97.959943159°W
STATE PLANE
COORDINATES: (US Feet)
ZONE: OK NORTH
X: X 2011911
Y: Y 214112

Revision ☒ A Date of Drawing: June 12, 2017 NMB
Invoice # 275606 Date Staked: May 10, 2017 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

