

API NUMBER: 073 26686

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

Approval Date: 03/11/2020
Expiration Date: 09/11/2021

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 28 Township: 16N Range: 9W County: KINGFISHER

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 370 1885

Lease Name: LO-NIC BIA 1609 Well No: 2-28-21MXH Well will be 370 feet from nearest unit or lease boundary.
Operator Name: MARATHON OIL COMPANY Telephone: 4057285228 OTC/OCC Number: 1363 0

MARATHON OIL COMPANY
PO BOX 68
HOUSTON, TX 77001-0068

RICHARD & SHERRILL MURRAY
3420 E. 790 ROAD
KINGFISHER OK 73750

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

Name	Code	Depth
1 MISSISSIPPIAN (LESS CHESTER)	359MSNLC	9397

Spacing Orders: 660247 Location Exception Orders: 707583 Increased Density Orders: 707481
659515 707408 707125
707409

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 19037 Ground Elevation: 1173 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 650

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 20-37300
H. SEE MEMO

PIT 1 INFORMATION

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 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

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

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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.

MULTI UNIT HOLE 1				
Section: 21	Township: 16N	Range: 9W	Total Length: 9376	
County: KINGFISHER			Measured Total Depth: 19037	
Spot Location of End Point: NW	NE	NW	NW	True Vertical Depth: 9890
Feet From: NORTH	1/4 Section Line: 165		End Point Location from	
Feet From: WEST	1/4 Section Line: 865		Lease,Unit, or Property Line: 165	

NOTES:	
Category	Description
DEEP SURFACE CASING	2/27/2020 - 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
EXCEPTION TO RULE – 707408 (201810895)	3/10/2020 - GB6 - (I.O.) 28-16N-9W X165:10-3-28(C)(2)(B) MSNLC (KARSON KONNER 1609 2-21-28MHX**) MAY BE CLOSER THAN 600' TO CONLEY 3-28 (API 07324650) AND/OR CONLEY 4-28 (API 07324670) NO OP. NAMED 01/13/2020 **S/B LO-NIC BIA 2-28-21MXH. WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR.
HYDRAULIC FRACTURING	2/27/2020 - 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 – 707125 (201810894)	3/10/2020 - GB6 - 28-16N-9W X659515 MSNLC 5 WELLS MARATHON OIL COMPANY 01/03/2020
INCREASED DENSITY – 707481 (201810892)	3/10/2020 - GB6 - 21-16N-9W X660247 MSNLC 5 WELLS MARATHON OIL COMPANY 01/14/2020
INTERMEDIATE CASING	2/27/2020 - 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 – 707583 (201810897)	3/10/2020 - GB6 - (I.O.) 21 & 28 -16N-9W X659515 MSNLC 28-16N-9W X660247 MSNLC 21-16N-9W COMPL. INT. (28-16N-9W) NCT 150' FSL, NCT 0' FNL, NCT 660' FWL COMPL. INT. (21-16N-9W) NCT 0' FSL, NCT 150' FNL, NCT 660' FWL NO OP. NAMED 01/16/2020
MEMO	2/27/2020 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING – 659515	3/10/2020 - GB6 - (640)(HOR) 28-16N-9W EXT 655017 MSNLC, OTHER COMPL. INT. (MSNLC) NCT 660' FB (COEXIST SP. ORDER # 5551190 MSSSD W2 28-16N-9W)
SPACING – 660247	3/10/2020 - GB6 - (640)(HOR) 21-16N-9W EXT 655017 MSNLC, OTHER COMPL. INT. (MSNLC) NCT 660' FB

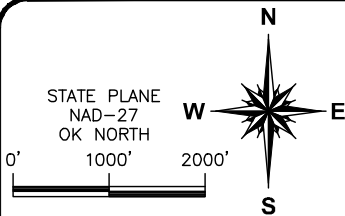
This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1.
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

SPACING – 707409 (201810896)

3/10/2020 - GB6 - (I.O.) 21 & 28 -16N-9W
EST MULTIUNIT HORIZONTAL WELL
X659515 MSNLC 28-16N-9W
X660247 MSNLC 21-16N-9W
50% 21-16N-9W
50% 28-16N-9W
NO OP. NAMED
01/13/2020

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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.

073 26686 LO-NIC BIA 1609 2-28-21MXH



ATWELL
866.850.4200 www.atwell-group.com
704 W. 41st Street | Sand Springs, OK 74063
OK CA #6036

KINGFISHER COUNTY, OKLAHOMA

370' FSL - 1,885' FWL SECTION 28 TOWNSHIP 16N RANGE 09W I.M.

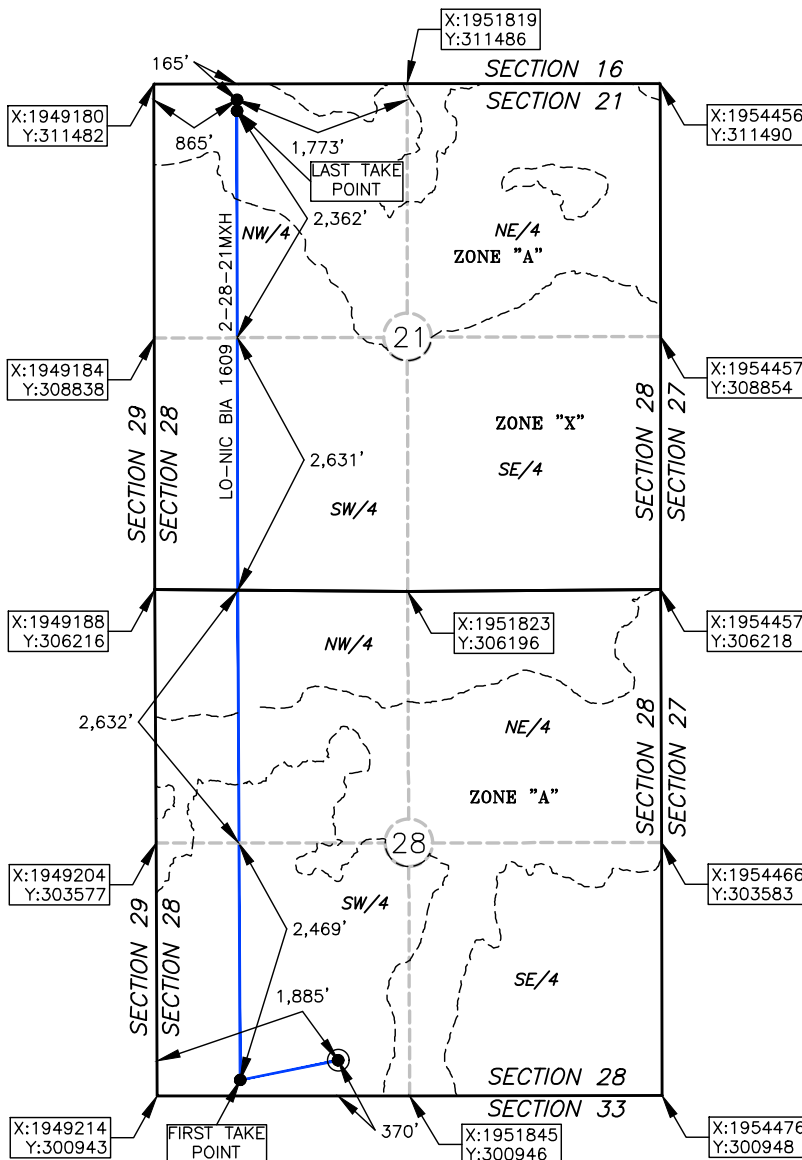
073-26686

PROPOSED
BOTTOM HOLE
165'FNL-865'FWL
NAD 27 (US FEET)
N35°51'18.5"
W98°10'06.8"
N35.855133
W98.168567
X:1950046
Y:311318

PROPOSED
LAST TAKE POINT
280'FNL-865'FWL
NAD 27 (US FEET)
N35°51'17.3"
W98°10'06.8"
N35.854817
W98.168566
X:1950046
Y:311203

PROPOSED
FIRST TAKE POINT
165'FSL-865'FWL
NAD 27 (US FEET)
N35°49'37.5"
W98°10'06.2"
N35.827087
W98.168399
X:1950078
Y:301109

PROPOSED
SURFACE HOLE
370'FSL-1,885'FWL
NAD 27 (US FEET)
N35°49'39.6"
W98°09'53.9"
N35.827658
W98.164962
X:1951097
Y:301315



OPERATOR: MARATHON OIL COMPANY

LEASE NAME: LO-NIC BIA 1609

WELL NO.: 2-28-21MXH

TOPOGRAPHY & VEGETATION: CULTIVATED FIELD

ELEVATION:

1,173' GR. AT STAKE NAVD88

1,170' GR. AT STAKE NGVD29

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

BEST ACCESS TO LOCATION: FROM THE NORTH SIDE OF E0820 RD.

DISTANCE AND DIRECTION
FROM HWY JCT OR TOWN BEGINNING AT THE INTERSECTION OF OK. HWY. 33, OK. HWY. 3 & OK. HWY. 81 IN KINGFISHER, OK. THENCE WEST ALONG OK. HWY. 33/3 ±12.8 MI. THENCE
SOUTH ALONG N2720 RD ±1.0 MI. THENCE WEST ALONG E0820 RD ±0.6 MI. THE PAD IS IN AN OPEN FIELD ON THE NORTH SIDE OF THE ROAD.

DATUM: NAD 27

LAT: 35° 49' 39.6" N

LONG: 98° 09' 53.9" W

LAT: 35.827658° N

LONG: 98.164962° W

STATE PLANE
COORDINATES: (US FEET)

ZONE: OK NORTH

X: 1951097

Y: 301315

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

JOB NO.: 19004190

DATE OF DRAWING: 12/04/19

DATE STAKED: 11/12/19

CERTIFICATE:

I, MICHAEL C. RAY, an Oklahoma Licensed Land
Surveyor and an authorized agent of Atwell, LLC, do
hereby certify to the information shown herein

Oklahoma Lic. No. 1653

