API NUMBER: 073 26728

Multi Unit Oil & Gas

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

Approval Date: 02/05/2021
Expiration Date: 08/05/2022

PERMIT TO DRILL

WELL LOCATION: Section: 29 Township: 17N Range: 8W County: KINGFISHER

SPOT LOCATION: SE NE NE NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**

SECTION LINES: **358** **2330**

Lease Name: **MIKE** **Well No:** **1708 4H-17X** **Well will be** **358** **feet from nearest unit or lease boundary.**

Operator Name: **OVINTIV MID-CONTINENT INC.** Telephone: 2812105100; 9188781290; OTC/OCC Number: 20944 0

OVINTIV MID-CONTINENT INC.
4 WATERWAY AVE STE 100
THE WOODLANDS, TX 77380-2764

PATSY KIRTLEY
P.O. BOX 1224
KINGFISHER OK 73750

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

	Name	Code	Depth
1	MISSISSIPPIAN (LESS CHESTER)	359MSNLC	8295
2	MERAMEC	353MRMC	8295

Spacing Orders: 647789
716507

Location Exception Orders: 716508

Increased Density Orders: 716583
716502

Pending CD Numbers: 202001969

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 18619 Ground Elevation: 1115 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 250

Deep surface casing has been approved

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)	PERMIT NO: 21-37519
E. Haul to Commercial pit facility	Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498
H. (Other)	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** located in a Hydrologically Sensitive Area.

Category of Pit: C
Liner not required for Category: C
Pit Location is: BED AQUIFER
Pit Location Formation: CEDAR HILL

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: BED AQUIFER
Pit Location Formation: CEDAR HILL

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: 17	Township: 17N	Range: 8W	Meridian: IM	Total Length:	10226
County:	KINGFISHER			Measured Total Depth:	18619
Spot Location of End Point:	NE NE NW NW			True Vertical Depth:	8300
Feet From:	**NORTH**	1/4 Section Line: 85		End Point Location from Lease,Unit, or Property Line:	85
Feet From:	**WEST**	1/4 Section Line: 1260			

NOTES:

Category	Description
DEEP SURFACE CASING	[2/3/2021 - GC2] - 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	[2/3/2021 - GC2] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INCREASED DENSITY - 716502	[2/5/2021 - G56] - 17-17N-8W X647789 MSNLC 5 WELLS OVINITV MID-CON INC 1/22/2021
INCREASED DENSITY - 716583	[2/5/2021 - G56] - 20-17N-8W X647789 MRMC 5 WELLS OVINTIV MID-CON INC 1/28/2021
LOCATION EXCEPTION - 716508	[2/5/2021 - G56] - (I.O.) 17 & 20-17N-8W X647789 MSNLC 17-17N-8W X647789 MRMC 20-17N-8W COMPL INT (20-17N-8W) NCT 165' FSL, NCT 0' FNL, NCT 990' FWL COMPL INT (17-17N-8W) NCT 0' FSL, NCT 165' FNL, NCT 990' FWL OVINTIV MID-CON INC 1/28/2021
MEMO	[2/3/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202001969	[2/5/2021 - G56] - (I.O.) 17 & 20-17N-8W X165:10-3-28(C)(2)(B) MSNLC, MRMC (MIKE 1708 4H-17X) MAY BE CLOSER THAN 600' TO LELA 1-17, MERCER 1-20, MERCER 20-1, MERCER, 20-2, BISHOP-BROWNBACK 17-1, MIKE 1H-17X AND/OR PROPOSED WELLS NO OP NAMED REC 1/5/2021 (THOMAS)
SPACING - 647789	[2/5/2021 - G56] - (640)(HOR) 17 & 20-17N-8W EXT OTHER EST MSNLC, OTHERS 17-17N-8W EST MRMC, OTHERS 20-17N-8W COMPL INT (MSNLC, MRMC) NLT 660' FB (COEXIST MISS SW4 SE4 17-17N-8W LEASE BASIS, SP # 143505 MSSLM, # 181352 MSSSD, # 197684 MNNG, MSSSD)

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 - 716507	[2/5/2021 - G56] - (I.O.) 17 & 20-17N-8W EST MULTIUNIT HORIZONTAL WELL X647789 MSNLC 17-17N-8W X647789 MRMC 20-17N-8W 50% 17-17N-8W 50% 20-17N-8W OVINTIV MID-CON INC 1/22/2021

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.

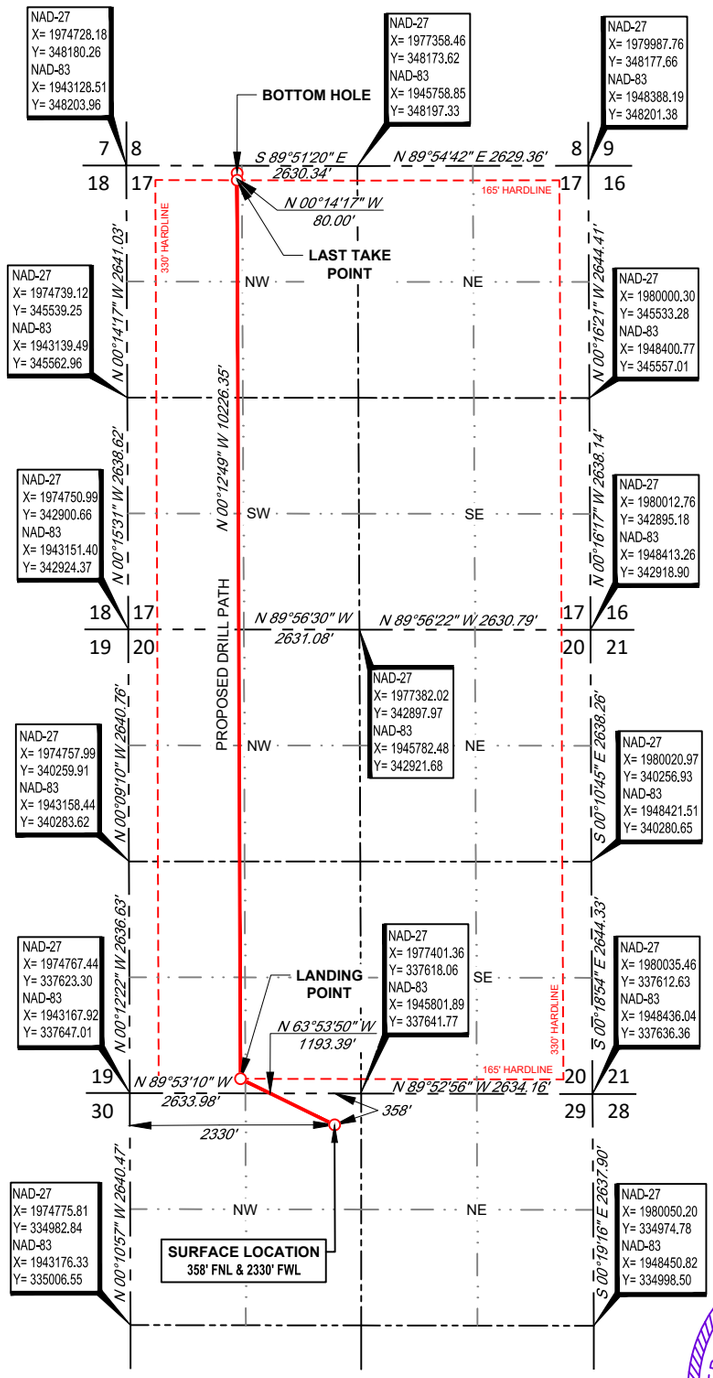
WELL LOCATION

MIKE 1708 4H-17X
OVINTIV MID-CONTINENT INC.
SECTION 29, TOWNSHIP 17N, RANGE 8W, I.M.
KINGFISHER COUNTY, OKLAHOMA

GRID
OK NORTH
US FEET

SCALE: 1" = 2000'
0' 1000' 2000'

LEGEND
SECTION LINE
QUARTER SECTION LINE
16TH LINE
PROPOSED WELL BORE



BOTTOM HOLE
85' FNL & 1260' FWL
NAD-27
X= 1975989
Y= 348092
LAT.: 35°57'22.5" N
LONG.: 98°04'52.1" W
LAT.: 35.956250° N
LONG.: 98.081129° W
NAD-83
X= 1944389
Y= 348116
LAT.: 35°57'22.6" N
LONG.: 98°04'53.3" W
LAT.: 35.956290° N
LONG.: 98.081467° W

LAST TAKE POINT
165' FNL & 1260' FWL
NAD-27
X= 1975989
Y= 348012
LAT.: 35°57'21.7" N
LONG.: 98°04'52.1" W
LAT.: 35.956031° N
LONG.: 98.081127° W
NAD-83
X= 1944389
Y= 348036
LAT.: 35°57'21.9" N
LONG.: 98°04'53.3" W
LAT.: 35.956070° N
LONG.: 98.081466° W

SURFACE LOCATION
358' FNL & 2330' FWL
NAD-27
X= 1977098
Y= 337261
LAT.: 35°55'35.4" N
LONG.: 98°04'38.5" W
LAT.: 35.926497° N
LONG.: 98.077349° W
ELEV.: 1115' (NGVD29)
NAD-83
X= 1945499
Y= 337284
LAT.: 35°55'35.5" N
LONG.: 98°04'39.7" W
LAT.: 35.926538° N
LONG.: 98.077687° W
ELEV.: 1115' (NAVD88)

LANDING POINT
165' FSL & 1260' FWL
NAD-27
X= 1976027
Y= 337786
LAT.: 35°55'40.6" N
LONG.: 98°04'51.5" W
LAT.: 35.927937° N
LONG.: 98.080970° W
NAD-83
X= 1944427
Y= 337810
LAT.: 35°55'40.7" N
LONG.: 98°04'52.7" W
LAT.: 35.927978° N
LONG.: 98.081308° W

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
2-1-21
OKLAHOMA

SURVEYOR'S CERTIFICATE:
I, THOMAS L. HOWELL, AN OKLAHOMA LICENSED LAND SURVEYOR AND AN AUTHORIZED AGENT OF TOPOGRAPHIC LAND SURVEYORS, DO HEREBY CERTIFY TO THE INFORMATION SHOWN HEREIN.

Thomas L. Howell
Thomas L. Howell, P.L.S. No. 1433
Authorized Agent of Topographic Land Surveyors

LEASE NAME & WELL NO. MIKE 1708 4H-17X
SECTION 29 TWP 17N RGE 8W MERIDIAN I.M.
COUNTY KINGFISHER STATE OKLAHOMA
DESCRIPTION 358' FNL & 2330' FWL

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
13800 WIRELESS WAY • OKLAHOMA CITY, OKLAHOMA 73134
TELEPHONE: (405) 843-4847 OR (800) 654-3219
CERTIFICATE OF AUTHORIZATION NO. 1292 LS
WWW.TOPOGRAPHIC.COM

MIKE 1708 4H-17X	REVISION: INT	DATE
DATE: 01/29/2021		
FILE:LO_MIKE_1708_4H-17X		
DRAWN BY: KEU		
SHEET : 1 OF 1		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS SHOWN HEREON ARE GRID OKLAHOMA COORDINATE SYSTEM OF 1983 NORTH ZONE ACCORDING TO THE RESULT OF STATIC GPS OBSERVATION PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO OKLAHOMA COORDINATE SYSTEM THROUGH NORTH ZONE AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. OKLAHOMA COORDINATE SYSTEM OF 1927 AND NATIONAL GEOGRAPHIC VERTICAL DATUM OF 1929 INFORMATION CONVERTED FROM OKLAHOMA COORDINATE SYSTEM OF 1983 AND NORTH AMERICAN VERTICAL DATUM OF 1988.
4. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT/LOCATION, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY OVINTIV MID-CONTINENT INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT/LOCATION, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
5. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
6. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY