

API NUMBER: 073 26729

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

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

Multi Unit Oil & Gas

**PERMIT TO DRILL**

WELL LOCATION: Section: 20 Township: 16N Range: 7W County: KINGFISHER

SPOT LOCATION: SW SE SW NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 2420 1713

Lease Name: PEARL FIU 1607 Well No: 2H-17X Well will be 1713 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

JOYCE K. BROWN  
P.O. BOX 418  
KINGFISHER OK 73750

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

Name	Code	Depth
1 MISSISSIPPIAN (LESS CHESTER)	359MSNLC	7975

Spacing Orders: 642257  
716588

Location Exception Orders: 716589  
716596

Increased Density Orders: 716585  
716586

Pending CD Numbers: No Pending

Working interest owners' notified: \*\*\*

Special Orders: No Special Orders

Total Depth: 18386 Ground Elevation: 1061

Surface Casing: 470

Depth to base of Treatable Water-Bearing FM: 220

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: 21-37507
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 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: BISON

**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: BISON

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: 16N	Range: 7W	Meridian: IM	Total Length: 7500
County: KINGFISHER				Measured Total Depth: 18386
Spot Location of End Point: NW	NW	NE	NW	True Vertical Depth: 8300
Feet From: <b>NORTH</b>	1/4 Section Line: 85			End Point Location from
Feet From: <b>WEST</b>	1/4 Section Line: 1550			Lease, Unit, or Property Line: 85

## NOTES:

Category	Description
EXCEPTION TO RULE - 716596	[2/8/2021 - G56] - (I.O.) 17 & 20-16N-7W X165:10-3-28(C)(2)(B) MSNLC (PEARL FIU 1607 2H-17X) MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS OVINTIV MID-CON INC 1/28/2021
HYDRAULIC FRACTURING	[2/4/2021 - 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: <a href="http://OCCEWEB.COM/OG/OGFORMS.HTML">OCCEWEB.COM/OG/OGFORMS.HTML</a> ; 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 <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 716585	[2/8/2021 - G56] - 17-16N-7W X642257 MSNLC 4 WELLS OVINTIV MID-CON INC 1/28/2021
INCREASED DENSITY - 716586	[2/8/2021 - G56] - 20-17N-6W X642257 MSNLC 7 WELLS OVINTIV MID-CON INC 1/28/2021
LOCATION EXCEPTION - 716589	[2/8/2021 - G56] - (I.O.) 17 & 20-16N-7W X642257 MSNLC COMPL INT (17-16N-7W) NCT 165' FNL, NCT 0' FSL, NCT 1500' FWL COMPL INT (20-16N-7W) NCT 0' FNL, NCT 2200' FSL, NCT 1500' FWL OVINTIV MID-CON INC 1/28/2021
MEMO	[2/4/2021 - GC2] - CLOSED SYSTEM=STEEL PITS ( REQUIRED - DEEP INDIAN CREEK), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 642257	[2/8/2021 - G56] - (640)(HOR) 17 & 20-16N-7W EXT OTHER EST MSNLC COMPL INT NLT 660' FB (COEXIST WITH SP # 77792 MSSLM)
SPACING - 716588	[2/8/2021 - G56] - (I.O.) 17 & 20-16N-7W EST MULTIUNIT HORIZONTAL WELL X642257 MSNLC 67% 17-16N-7W 33% 20-16N-7W OVINTIV MID-CON INC 1/28/2021
SURFACE HOLE ISSUE	[2/4/2021 - GC2] - NO DEEP SURFACE CASING ALLOWED DUE TO SURFACE HOLE ISSUES IN SW SE SW SW 28-16N-7W

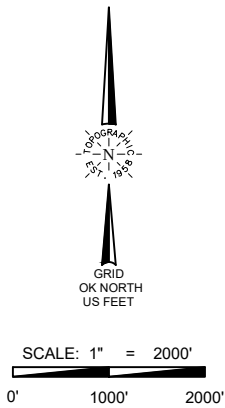
This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation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

073 26729 PEARL FIU 1607 2H-17X

WELL LOCATION  
PEARL FIU 1607 2H-17X  
OVINTIV MID-CONTINENT INC.  
SECTION 20, TOWNSHIP 16N, RANGE 7W I.M.  
KINGFISHER COUNTY, OKLAHOMA

LEGEND

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



**BOTTOM HOLE**  
85' FNL & 1550' FWL  
NAD-27  
X= 2008348  
Y= 316999  
LAT.: 35°52'15.1" N  
LONG.: 97°58'18.6" W  
LAT.: 35.870856° N  
LONG.: 97.971826° W  
NAD-83  
X= 1976749  
Y= 317023  
LAT.: 35°52'15.2" N  
LONG.: 97°58'19.8" W  
LAT.: 35.870899° N  
LONG.: 97.972159° W

**LANDING POINT**  
2369' FNL & 1550' FWL  
NAD-27  
X= 2008379  
Y= 309419  
LAT.: 35°51'00.1" N  
LONG.: 97°58'18.2" W  
LAT.: 35.850032° N  
LONG.: 97.971728° W  
NAD-83  
X= 1976780  
Y= 309443  
LAT.: 35°51'00.3" N  
LONG.: 97°58'19.4" W  
LAT.: 35.850076° N  
LONG.: 97.972061° W

**LAST TAKE POINT**  
165' FNL & 1550' FWL  
NAD-27  
X= 2008348  
Y= 316919  
LAT.: 35°52'14.3" N  
LONG.: 97°58'18.6" W  
LAT.: 35.870636° N  
LONG.: 97.971825° W  
NAD-83  
X= 1976749  
Y= 316943  
LAT.: 35°52'14.4" N  
LONG.: 97°58'19.8" W  
LAT.: 35.870679° N  
LONG.: 97.972158° W

**SURFACE LOCATION**  
2420' FNL & 1713' FEL  
NAD-27  
X= 2010426  
Y= 309419  
LAT.: 35°51'00.1" N  
LONG.: 97°57'53.4" W  
LAT.: 35.850030° N  
LONG.: 97.964822° W  
ELEV.: 1061' (NGVD29)  
NAD-83  
X= 1978827  
Y= 309443  
LAT.: 35°51'00.3" N  
LONG.: 97°57'54.6" W  
LAT.: 35.850073° N  
LONG.: 97.965154° W  
ELEV.: 1061' (NAVD88)

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.



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



THOMAS L. HOWELL  
THOMAS L. HOWELL, P.L.S. No. 1433  
Authorized Agent of Topographic Land Surveyors

LEASE NAME & WELL NO. PEARL FIU 1607 2H-17X

SECTION 20 TWP 16N RGE 7W MERIDIAN I.M.  
COUNTY KINGFISHER STATE OKLAHOMA  
DESCRIPTION 2420' FNL & 1713' FEL

PEARL FIU 1607 2H-17X	REVISION:	
	INT	DATE
	TR	10/02/2020
DATE: 09/14/2020	JS	01/19/2021
FILE:LO_PEARL FIU_1607_2H-17X_REV3	JS	01/20/2021
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 RESULTS OF STATIC GPS OBSERVATIONS PROCESSED THROUGH OPUS ON THE CONTROL POINT OCCUPIED WHILE MEASURING SAID LINES. OPUS RESULTS ARE CORRELATED TO THE OKLAHOMA COORDINATE SYSTEM OF 1983 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