

API NUMBER: 073 26754

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

Approval Date: 05/28/2021
Expiration Date: 11/28/2022

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 29 Township: 15N Range: 7W County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 580 2390

Lease Name: LAURA 1507 Well No: 2H-17X Well will be 580 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

KENNETH KARRENBROCK
21380 N 2880 RD
KINGFISHER OK 73750

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	8448

Spacing Orders: 633113	Location Exception Orders: 695973	Increased Density Orders: 692676
695971	695972	692677
710590	710591	710583
717900	717901	717256
	710592	710582
	717902	717255

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 19135 Ground Elevation: 1192

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 380

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: 21-37638
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: DUNCAN

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: DUNCAN

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: 15N	Range: 7W	Meridian: IM	Total Length: 10251
County: KINGFISHER				Measured Total Depth: 19135
Spot Location of End Point: N2	N2	N2	NW	True Vertical Depth: 8500
Feet From: NORTH	1/4 Section Line: 85		End Point Location from	
Feet From: WEST	1/4 Section Line: 1320		Lease, Unit, or Property Line: 85	

NOTES:

Category	Description
DEEP SURFACE CASING	[5/27/2021 - 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	<p>[5/27/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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: OCCWEB.COM/OG/OGFORMS.HTML; AND,</p> <p>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</p>
INCREASED DENSITY - 692676 (201809966)	[5/28/2021 - GB1] - 17-15N-7W X633133 MSSP 3 WELLS NEWFIELD EXPLORATION MID-CONTINENTAL INC 3/11/2019
INCREASED DENSITY - 692677 (201809967)	[5/28/2021 - GB1] - 20-15N-7W X633133 MSSP 3 WELLS NEWFIELD EXPLORATION MID-CONTINENTAL INC 3/11/2019
INCREASED DENSITY - 710582 (201809966)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER #692676 UNTIL 3/11/21
INCREASED DENSITY - 710583 (201809967)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER #692677 UNTIL 3/11/21
INCREASED DENSITY - 717255 (201809966)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER # 692676 UNTIL 3/11/22
INCREASED DENSITY - 717256 (201809967)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER #692677 UNTIL 3/11/22
LOCATION EXCEPTION - 695972 (201809975)	[5/28/2021 - GB1] - (I.O.) 17 & 20-15N-7W X633113 MSSP, OTHER COMPL INT (17-15N-7W) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL INT (20-15N-7W) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NEWFIELD EXPLORATION MID-CONTINENT INC 5-13-2019
LOCATION EXCEPTION - 695973 (201809976)	[5/28/2021 - GB1] - (I.O.) 17 & 20-15N-7W X165:10-3-28(C)(2)(B) MSSP (LAURA 1507 2H-17X) MAY BE CLOSER THAN 600' TO LAURA 1H-17X, AJ SCHRODER 1, GRUNTMEIER UNIT 1 AND EACH OTHER NO OP NAMED 5/13/2019
LOCATION EXCEPTION - 710591 (201809975)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER # 695972 UNTIL 5/13/21
LOCATION EXCEPTION - 710592 (201809976)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER # 695973 UNTIL 5/14/21
LOCATION EXCEPTION - 717901 (201809975)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER #695972 UNTIL 5/13/22
LOCATION EXCEPTION - 717902 (201800976)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER # 695973 UNTIL 5/14/22

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.

MEMO	[5/27/2021 - GC2] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
SPACING - 633113	[5/28/2021 - GB1] - (640)(HOR) 17 & 20-15N-7W EST OTHER EXT 623630 MSSP, OTHER COMPL INT NLT 660' FB (COEXIST SP #37910 MSCTR 17 AND 20-15-7W, SP # 216965 MSSLM SW4 20-15N-7W)
SPACING - 695971 (201809974)	[5/28/2021 - GB1] - (I.O.) 17 & 20-15N-7W EST MULTIUNIT HORIZONTAL WELL X633113 MSSP, OTHER 50% 17-15N-7W 50% 20-15N-7W NEWFIELD EXPLORATION MID-CONTINENT INC 5-13-2019
SPACING - 710590 (201809974)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER # 695971 UNTIL 5/13/21
SPACING - 717900 (201809974)	[5/28/2021 - GB1] - EXT OF TIME FOR ORDER # 695971 UNTIL 5/13/22

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

LAURA 1507 2H-17X
OVINTIV MID-CONTINENT INC.
SECTION 29, TOWNSHIP 15N, RANGE 7W, I.M.
KINGFISHER COUNTY, OKLAHOMA

LEGEND

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



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

SURFACE LOCATION

580' FNL & 2390' FEL
NAD-27
X= 2009878
Y= 274214
LAT.: 35°45'11.9" N
LONG.: 97°58'00.2" W
LAT.: 35.753314° N
LONG.: 97.966711° W
ELEV.: 1192' (NGVD29)
NAD-83
X= 1975346.32
Y= 282706.30
LAT.: 35°45'12.1" N
LONG.: 97°58'01.3" W
LAT.: 35.753360° N
LONG.: 97.967041° W
ELEV.: 1192' (NAVD88)

LANDING POINT

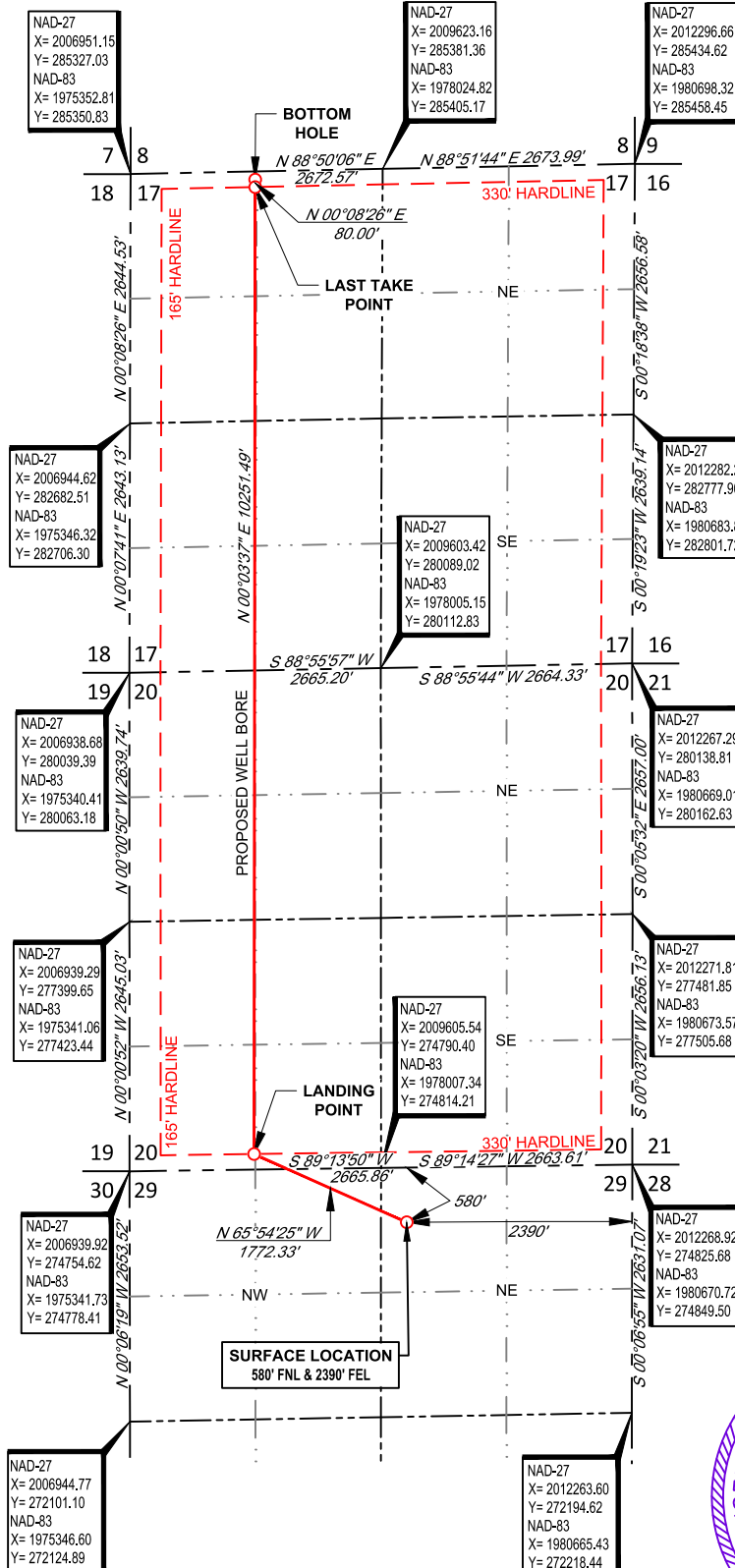
165' FSL & 1320' FWL
NAD-27
X= 2008260
Y= 274937
LAT.: 35°45'19.1" N
LONG.: 97°58'19.8" W
LAT.: 35.755303° N
LONG.: 97.972163° W
NAD-83
X= 1976662
Y= 274961
LAT.: 35°45'19.3" N
LONG.: 97°58'21.0" W
LAT.: 35.755349° N
LONG.: 97.972493° W

LAST TAKE POINT

165' FNL & 1320' FWL
NAD-27
X= 2008271
Y= 285189
LAT.: 35°47'00.5" N
LONG.: 97°58'19.6" W
LAT.: 35.783466° N
LONG.: 97.972116° W
NAD-83
X= 1976672
Y= 285213
LAT.: 35°47'00.6" N
LONG.: 97°58'20.8" W
LAT.: 35.783511° N
LONG.: 97.972447° W

BOTTOM HOLE

85' FNL & 1320' FWL
NAD-27
X= 2008271
Y= 285269
LAT.: 35°47'01.3" N
LONG.: 97°58'19.6" W
LAT.: 35.783686° N
LONG.: 97.972115° W
NAD-83
X= 1976673
Y= 285293
LAT.: 35°47'01.4" N
LONG.: 97°58'20.8" W
LAT.: 35.783731° N
LONG.: 97.972446° W



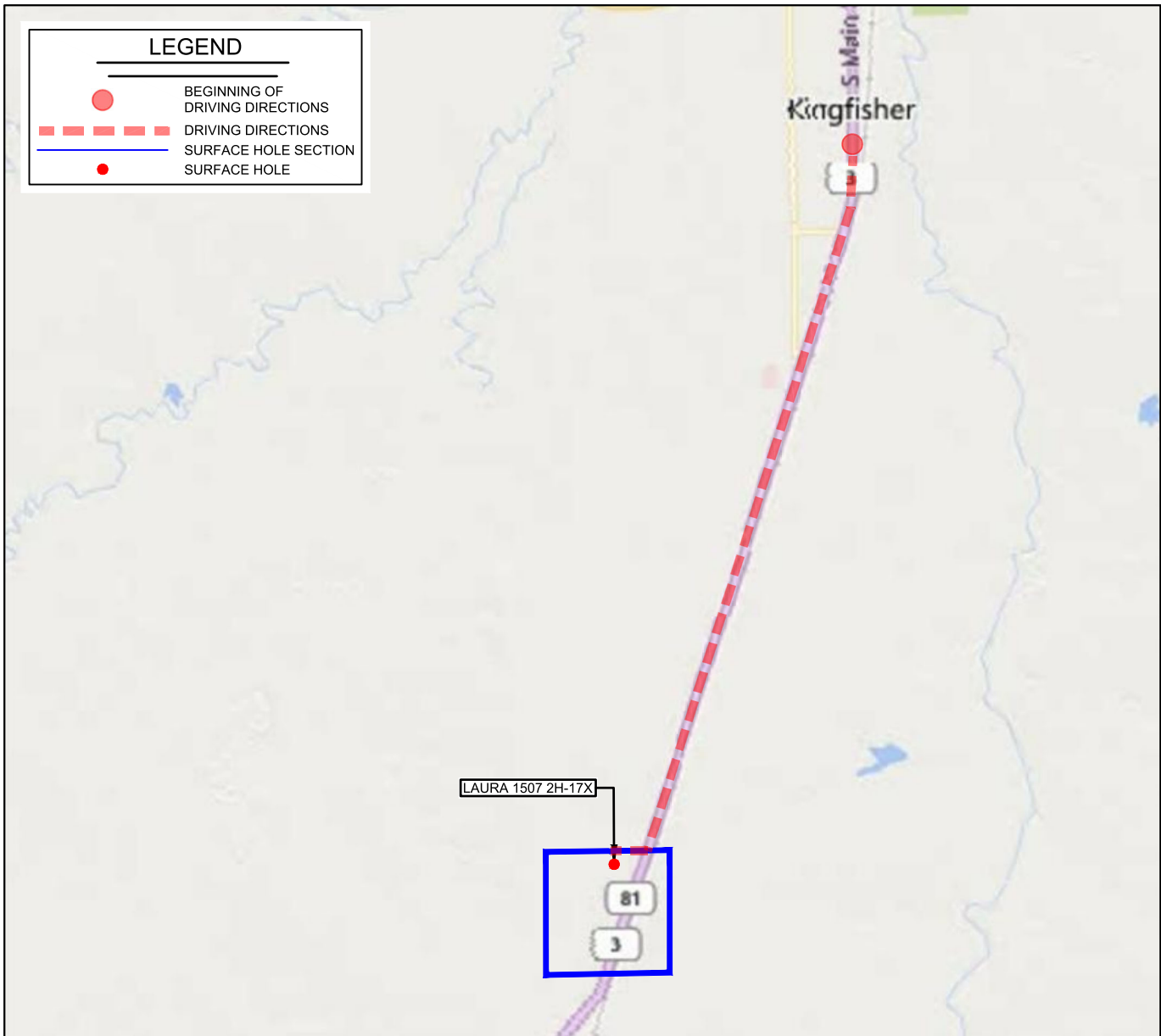
SURVEYOR'S CERTIFICATE:

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

VICINITY MAP



LEASE NAME & WELL NO. LAURA 1507 2H-17X

SECTION 29 TWP 15N RGE 7W MERIDIAN I.M.

COUNTY KINGFISHER STATE OKLAHOMA

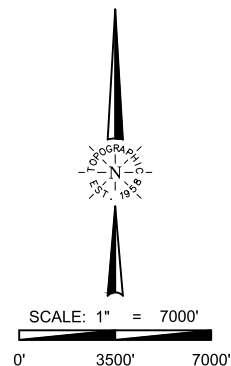
DESCRIPTION 580' FNL & 2390' FEL

DISTANCE & DIRECTION

FROM WILL ROGERS DRIVE AND HIGHWAY 81 (S. MAIN STREET) IN KINGFISHER. TAKE HIGHWAY 81 SOUTHWEST FOR APPROXIMATELY 6.5 MILES. TO E0870RD. TAKE E0870RD WEST FOR APPROXIMATELY 1000 FEET TO LOCATION TO THE SOUTH.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY OVINTIV MID-CONTINENT INC.. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE OKLAHOMA STATE PLANE COORDINATE SYSTEM, NORTH ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET AND THE NORTH AMERICAN VERTICAL DATUM OF 1988.



 **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