API NUMBER: 073 26691 A

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

Approval Date: 03/13/2020
Expiration Date: 09/13/2021

Multi Unit Oil & Gas

Amend reason: CHANGE WELL NAME, SHL, BHL, LAND OWNER, ADD ORDERS, ADD FORMATION

AMEND PERMIT TO DRILL

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

SPOT LOCATION: NW NE NE NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**
SECTION LINES: **325** **2295**

Lease Name: **MARY** **Well No:** **1507 3H-34XX** **Well will be** **325** **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

DAVID KRETCHMAR AND MARY LORETTA KRETCHMAR
26973 N. 2840 RD
KINGFISHER OK 73750

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	7670
2	MISSISSIPPIAN (LESS CHESTER)	359MSNLC	7811

Spacing Orders: 617362
639912

Location Exception Orders: 695441
709457

Increased Density Orders: 709445
692478
709444
692479
692437
709584

Special Orders: No Special Orders

Pending CD Numbers: 202001025
202001026

Total Depth: 19626 Ground Elevation: 1124 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 270

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: 20-37308
E. Haul to Commercial pit facility: Sec. 31 Twn. 12N Rng. 8W Cnty. 17 Order No: 587498

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 HILLS

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.

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 HILLS

MULTI UNIT HOLE 1

Section: 34 Township: 15N Range: 7W
County: KINGFISHER
Spot Location of End Point: NW NW SW SE
Feet From: **SOUTH** 1/4 Section Line: 1000
Feet From: **EAST** 1/4 Section Line: 2553

Total Length: 11295
Measured Total Depth: 19626
True Vertical Depth: 7811
End Point Location from Lease,Unit, or Property Line: 1000

NOTES:

Category	Description
DEEP SURFACE CASING	3/5/2020 - 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
EXCEPTION TO RULE - 695441 (201810281)	3/13/2020 - GC2 - (I.O.) 3 & 10-15N-7W X165:10-3-28(C)(2)(B) MSSP, OTHER (MARY 1507 3H-3X) MAY BE CLOSER THAN 600' TO MARY 1507 2H-3X, MARY 1507 4H-3X, MAY 1507 5H-3X, MARY 1507 6H-3X, MARY 7H-3X, MARY 1H-3X NO OP. NAMED 5-1-2019
EXCEPTION TO RULE - 709457 (201810281)	3/13/2020 - GC2 - EXT OF TIME ORDER 695441 UNTIL 5-1-2021
HYDRAULIC FRACTURING	3/5/2020 - GC2 - 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 - 692437	6/9/2020 - GC2 - 34-16N-7W X639912 MSNLC 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC (BOUGHT IN ITS ENTIRETY BY OVINTIV MID-CONTINENT INC) 3-5-2019
INCREASED DENSITY - 692478 (201810267)	3/13/2020 - GC2 - 3-15N-7W X617362 MSSP 6 WELLS NO OP. NAMED 3-6-2019
INCREASED DENSITY - 692479 (201810268)	3/13/2020 - GC2 - 10-15N-7W X617362 MSSP 6 WELLS NO OP. NAMED 3-6-2019
INCREASED DENSITY - 709444 (201810267)	3/13/2020 - GC2 - EXT OF TIME FOR ORDER 692478 UNTIL 3-6-2021
INCREASED DENSITY - 709445 (201810268)	3/13/2020 - GC2 - EXT OF TIME FOR ORDER 692479 UNTIL 3-6-2021
INCREASED DENSITY - 709584	6/9/2020 - GC2 - EXT OF TIME FOR ORDER 692437 UNTIL 3-5-2021

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.

MEMO	6/5/2020 - G71 - PIT 1 & 2 - CLOSED SYSTEM = STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS & OBM CUTTINGS CAPTURED IN STEEL HALF PITS, WBM/CUTTINGS WILL BE SOIL FARMED, OBM CUTTINGS TRANSFERRED TO R360 587498 (31-12N-8W), CANADIAN CO, PIT 2 - OBM TO VENDOR
PENDING CD - 202001025	6/9/2020 - GC2 - (I.O.) 3 & 10-15N-7W & 34-16N-7W EST MULTIUNIT HORIZONTAL WELL X617362 MSSP, OTHER 3 & 10-15N-7W X639912 MSNLC, OTHER 34-16N-7W 39% 10-15N-7W 41% 3-15N-7W 20% 34-16N-7W NO OP. NAMED REC. 5-19-2020 (P. PORTER)
PENDING CD - 202001026	6/9/2020 - GC2 - (I.O.) 3 & 10-15N-7W & 34-16N-7W X617362 MSSP, OTHER X639912 MSNLC, OTHER COMPL. INT. (10-15N-7W) NCT 165' FSL, NCT 0' FNL, NCT 1,980' FWL*** COMPL. INT. (3-15N-7W) NCT 0' FSL, NCT 0' FNL, NCT 1,980' FWL*** COMPL. INT. (34-16N-7W) NCT 0' FSL, NCT 2,640' FNL, NCT 1,980' FWL*** NO OP. NAMED REC. 5-19-2020 (P. PORTER) ***S/B FEL; WILL BE CHANGED FOR OPERATOR BY ATTORNEY AT HEARING
SPACING - 617362	3/13/2020 - GC2 - (640)(HOR) 3 & 10-15N-7W VAC 41819 MSLCR VAC 184418 MSSLM, MNNG VAC 37910 MSLCR VAC OTHER EST MSSP, OTHER COMPL. INT. (MSSP) NCT 660' FB
SPACING - 639912	6/9/2020 - GC2 - (640)(HOR) 34-16N-7W EST MSNLC, OTHER COMPL. INT (MSNLC) NCT 660' FB (COEXIST EXISTING NON-HORIZONTAL SPACING UNITS; SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

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

MARY 1507 3H-34XX
OVINTIV MID-CONTINENT INC.
SECTION 15, TOWNSHIP 15-N, RANGE 7-W I.M.
KINGFISHER COUNTY, OKLAHOMA

API:073-26691A

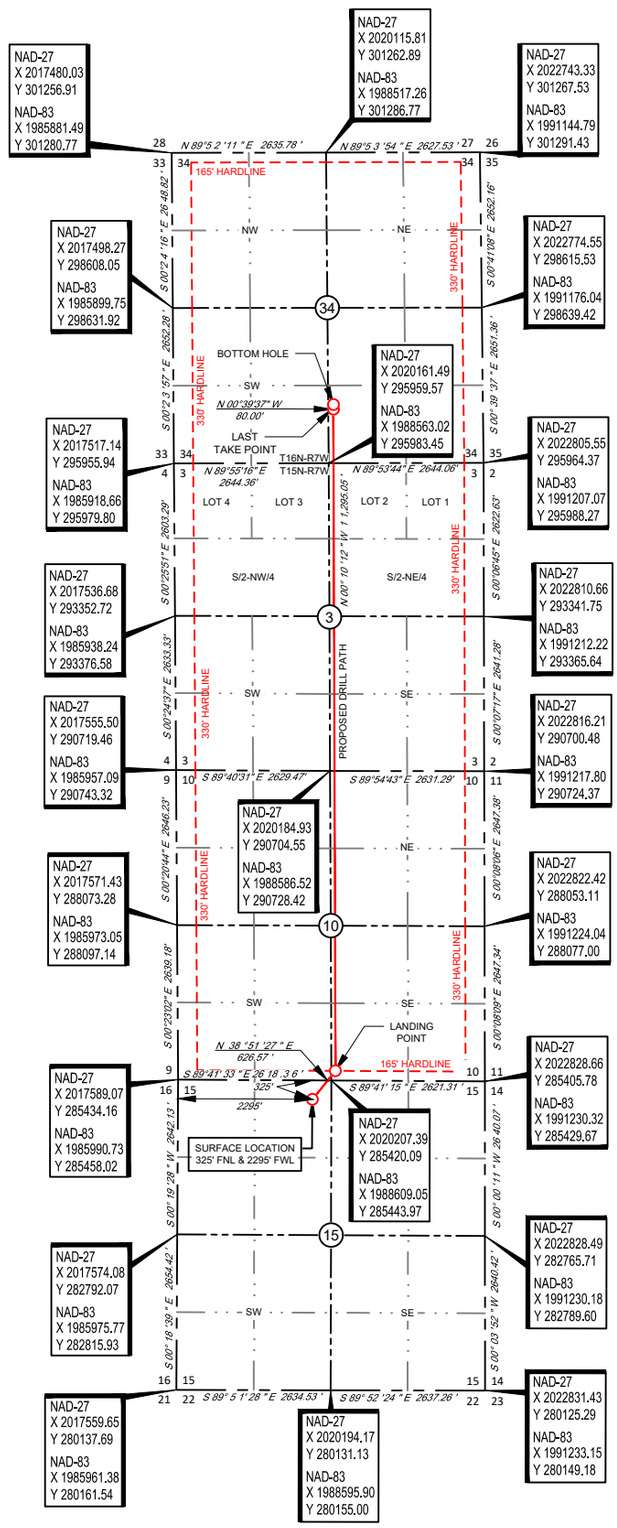
GRID
NAD-83
OK NORTH
US FEET

SCALE: 1" = 3000'

0' 1500' 3000'

LEGEND

- BLOCK/TOWNSHIP LINE
- MERIDIAN/SECTION LINE
- QUARTER SECTION LINE
- SIXTEENTH SECTION LINE
- PROPOSED WELL BORE



LAST TAKE POINT
920' FSL - 2553' FEL
NAD-27
X=2020242
Y=296880
LAT.: 35°48'56.0" N
LONG.: 97°55'54.2" W
LAT.: 35.815567° N
LONG.: 97.931730° W
NAD 83
X=1988643
Y=296904
LAT.: 35°48'56.2" N
LONG.: 97°55'55.4" W
LAT.: 35.815612° N
LONG.: 97.932060° W

BOTTOM HOLE
1000' FSL - 2553' FEL
NAD-27
X=2020241
Y=296960
LAT.: 35°48'56.8" N
LONG.: 97°55'54.2" W
LAT.: 35.815787° N
LONG.: 97.931733° W
NAD 83
X=1988642
Y=296984
LAT.: 35°48'57.0" N
LONG.: 97°55'55.4" W
LAT.: 35.815831° N
LONG.: 97.932063° W

LANDING POINT
165' FSL - 2553' FEL
NAD-27
X=2020275
Y=285585
LAT.: 35°47'04.3" N
LONG.: 97°55'53.9" W
LAT.: 35.784538° N
LONG.: 97.931644° W
NAD 83
X=1988677
Y=285609
LAT.: 35°47'04.5" N
LONG.: 97°55'55.1" W
LAT.: 35.784583° N
LONG.: 97.931974° W

SURFACE LOCATION
325' FNL & 2295' FWL
NAD-27
X=2019882
Y=285097
LAT.: 35°46'59.5" N
LONG.: 97°55'58.7" W
LAT.: 35.783198° N
LONG.: 97.932970° W
NAD 83
X=1988284
Y=285121
LAT.: 35°46'59.7" N
LONG.: 97°55'59.9" W
LAT.: 35.783243° N
LONG.: 97.933300° 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.

LICENSED PROFESSIONAL LAND SURVEYOR
THOMAS L. HOWELL
1433
06-03-20
OKLAHOMA

ELEVATION:
1124' Gr. at Existing Pad (NGVD29)
1124' Gr. at Existing Pad (NAVD88)

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

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

LEASE NAME & WELL NO.: MARY 1507 3H-34XX

SECTION 15 TWP 15-N RGE 7-W MERIDIAN I.M.
COUNTY KINGFISHER STATE OKLAHOMA
DESCRIPTION 325' FNL & 2295' FWL

MARY 1507 3H-34XX	REVISION: INT	DATE
	KEU	5/29/20
DATE: 05/29/20	KEU	6/3/20
FILE: LO_MARY_1507_3H-34XX_REV2		
DRAWN BY: KEU		
SHEET : 1 OF 2		

NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 14"
2. ALL BEARINGS SHOWN HEREON ARE GRID 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 OKLAHOMA, NORTH ZONE, NAD 83 - HORIZONTAL AND NAVD 88 - VERTICAL.
3. 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.
4. LANDING POINT, BOTTOM HOLE, AND DRILL PATH INFORMATION PROVIDED BY OPERATOR AS SHOWN AND ARE NOT SURVEYED LOCATIONS.
5. THE INFORMATION SHOWN HEREIN IS FOR CONSTRUCTION PURPOSES ONLY