

API NUMBER: 073 26702

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

Approval Date: 05/14/2020

Expiration Date: 11/14/2021

Multi Unit

Oil & Gas

## PERMIT TO DRILL

WELL LOCATION: Section: 12 Township: 15N Range: 9W County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ NE ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST  
SECTION LINES: 415 1935

Lease Name: SOUTH STANGL Well No: 1509 2H-12X Well will be 415 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

RYAN MCILVAIN  
10544 248TH STREET NW  
OKARCHE OK 73762

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSSP	9175

Spacing Orders: 645167	Location Exception Orders: 690916	Increased Density Orders: 689307
633506	690929	689308
690915	707215	707199
707201	707202	707200
637835		

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 20021 Ground Elevation: 1206 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 160

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: 20-37357  
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 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: 13	Township: 15N	Range: 9W	Total Length: 10221	
County: KINGFISHER			Measured Total Depth: 20021	
Spot Location of End Point: SE	SW	SE	SW	True Vertical Depth: 9454
Feet From: <b>SOUTH</b>	1/4 Section Line: 85		End Point Location from	
Feet From: <b>WEST</b>	1/4 Section Line: 1840		Lease, Unit, or Property Line: 85	

NOTES:	
Category	Description
DEEP SURFACE CASING	5/7/2020 - 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 - 690929	5/13/2020 - G56 - (I.O.) 12 & 13-15N-9W X165:10-3-28(C)(2)(B) MSSP MAY BE CLOSER THAN 600' TO STANGL 1509 2H-12X, 3H-12X, 4H-12X, 5H-12X, 6H-12X, 7H-12X, STANGL 1H-12X, AND P M PATTERSON WELLS NO OP NAMED 2/5/2019
EXCEPTION TO RULE - 707215	5/13/2020 - G56 - EXTENSION OF TIME FOR ORDER # 690929
HYDRAULIC FRACTURING	5/7/2020 - 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: <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 TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 689307	5/13/2020 - G56 - 12-15N-9W X637835/645167 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 1/7/2019
INCREASED DENSITY - 689308	5/13/2020 - G56 - 13-15N-9W X633506 MSSP 7 WELLS NEWFIELD EXPLORATION MID-CONTINENT INC. 1/7/2019
INCREASED DENSITY - 707199	5/13/2020 - G56 - EXTENSION OF TIME FOR ORDER # 689307
INCREASED DENSITY - 707200	5/13/2020 - G56 - EXTENSION OF TIME FOR ORDER # 689308
INTERMEDIATE CASING	5/7/2020 - 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 - 690916	5/13/2020 - G56 - (I.O.) 12 & 13-15N-9W X637835/645167 MSSP, OTHER 12-15N-9W X633506 MSSP, OTHER 13-15N-9W COMPL INT (13-15N-9W) NCT 165' FSL, NCT 0' FNL, NCT 990' FWL COMPL INT (12-15N-9W) NCT 0' FSL, NCT 165' FNL, NCT 990' FWL NEWFIELD EXPLORATION MID-CONTINENT INC. 2/5/2019
LOCATION EXCEPTION - 707202	5/13/2020 - G56 - EXTENSION OF TIME FOR ORDER # 690916
MEMO	5/7/2020 - 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

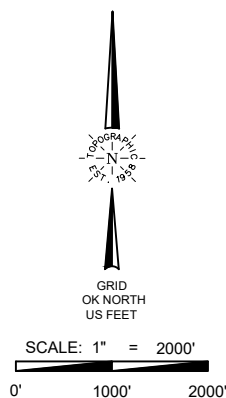
This permit does not address the right of entry or settlement of surface damages.  
The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1.  
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District  
Office of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

SPACING - 633506	5/13/2020 - G56 - (640)(HOR) 13-15N-9W VAC 135579 MGLCS, CSTRU VAC 166936 MSSSD EST MSSP, OTHER COMPL INT NCT 660' FB
SPACING - 637835	5/13/2020 - G56 - (640)(HOR) 12-15N-9W VAC 167255 CSTR VAC 230216 MSSLM VAC 230216 MNNG W2 NW4, NE4, S2 EXT 633506 MSSP, OTHER COMPL INT NCT 660' FB (COEXIST WITH SP # 230216 MNNG E2 NW4)***  S/B COEXIST WITH SP # 230216/233742; WILL BE CORRECTED VIA NPT PER ATTORNEY FOR OPERATOR
SPACING - 645167	5/13/2020 - G56 - NPT CORRECTING # 637835 TO VAC MSSLM, MNNG W2 NW4, NE4, S2 12-15N-9W AND COEXIST WITH MSSLM, MANNG E2 NW4 12-15N-9W
SPACING - 690915	5/13/2020 - G56 - (I.O.) 12 & 13-15N-9W EST MULTIUNIT HORIZONTAL WELL X637835/645167 MSSP, OTHER 12-15N-9W X633506 MSSP, OTHER 13-15N-9W 50% 12-15N-9W 50% 13-15N-9W NEWFIELD EXPLORATION MID-CONTINENT INC. 2/5/2019
SPACING - 707201	5/13/2020 - G56 - EXTENSION OF TIME FOR ORDER # 690915

WELL LOCATION  
SOUTH STANGL 1509 2H-12X  
OVINTIV MID-CONTINENT  
SECTION 12, TOWNSHIP 15-N, RANGE 9-W I.M.  
KINGFISHER COUNTY, OKLAHOMA

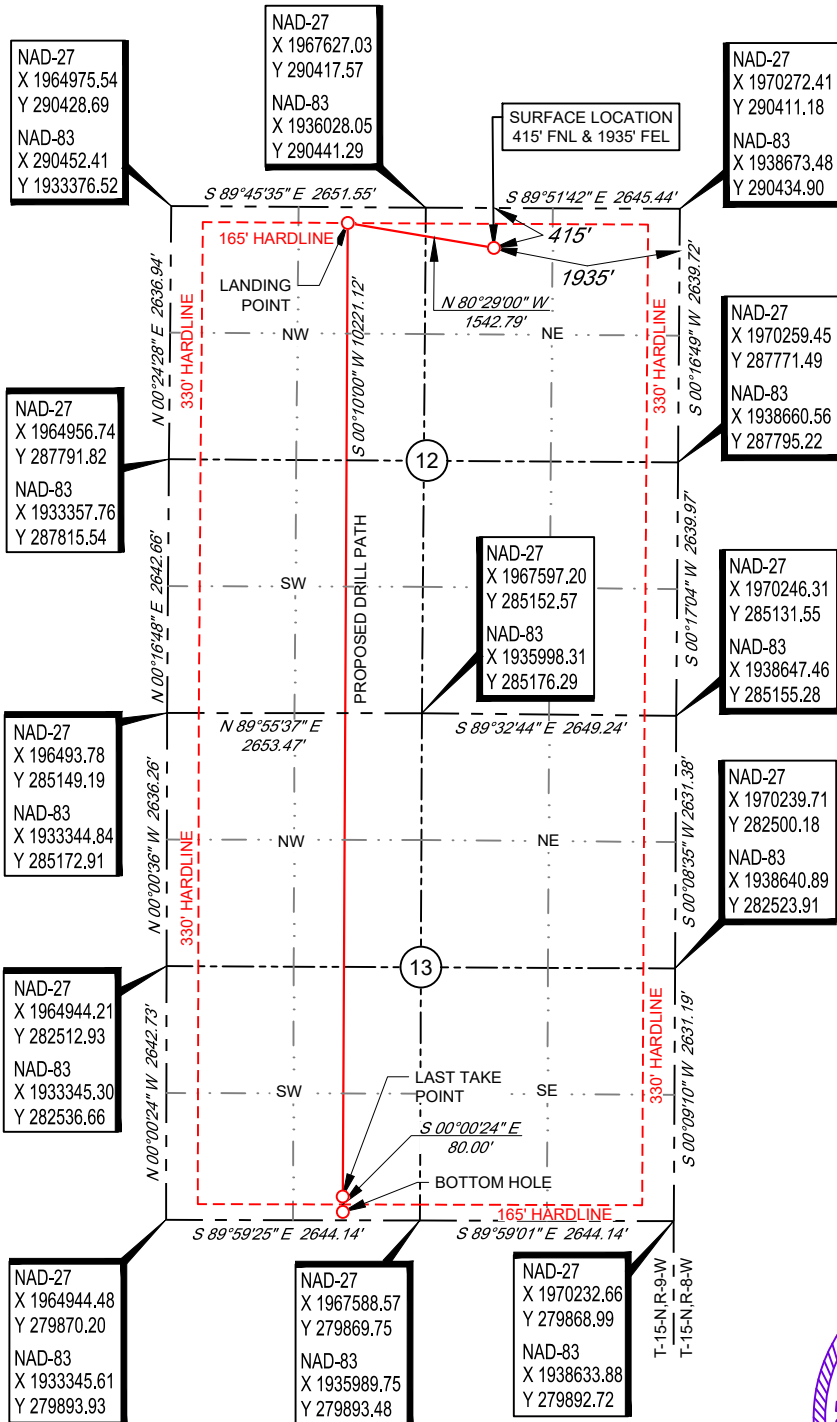
LEGEND

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



**LANDING POINT**  
165' FNL & 1840' FWL  
NAD-27  
X= 1966814  
Y= 290256  
LAT.: 35°47'50.4" N  
LONG.: 98°06'42.8" W  
LAT.: 35.797338° N  
LONG.: 98.111901° W  
NAD-83  
X= 1935215  
Y= 290280  
LAT.: 35°47'50.6" N  
LONG.: 98°06'44.1" W  
LAT.: 35.797381° N  
LONG.: 98.112237° W

**LAST TAKE POINT**  
165' FSL & 1840' FWL  
NAD-27  
X= 1966784  
Y= 280035  
LAT.: 35°46'09.3" N  
LONG.: 98°06'43.1" W  
LAT.: 35.769258° N  
LONG.: 98.111962° W  
NAD-83  
X= 1935186  
Y= 280059  
LAT.: 35°46'09.5" N  
LONG.: 98°06'44.3" W  
LAT.: 35.769302° N  
LONG.: 98.112298° W



**SURFACE LOCATION**  
415' FNL & 1935' FEL  
NAD-27  
X= 1968336  
Y= 290001  
LAT.: 35°47'47.9" N  
LONG.: 98°06'24.4" W  
LAT.: 35.7976642° N  
LONG.: 98.106769° W  
NAD-83  
X= 1936737  
Y= 290025  
LAT.: 34°47'48.1" N  
LONG.: 98°06'25.6" W  
LAT.: 35.796685° N  
LONG.: 98.107105° W

**BOTTOM HOLE**  
85' FSL & 1840' FWL  
NAD-27  
X= 1966784  
Y= 279955  
LAT.: 35°46'08.5" N  
LONG.: 98°06'43.1" W  
LAT.: 35.769038° N  
LONG.: 98.111961° W  
NAD-83  
X= 1935186  
Y= 279979  
LAT.: 35°46'08.7" N  
LONG.: 98°06'44.3" W  
LAT.: 35.769083° N  
LONG.: 98.112297° 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.



ELEVATION:

1206' Gr. at Existing Pad (NGVD29)  
1207' Gr. at Existing Pad (NAVD88)



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



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.:

SOUTH STANGL 1509 2H-12X

SECTION

12

TWP

15-N

RGE

9-W

MERIDIAN

I.M.

COUNTY

KINGFISHER

STATE

OKLAHOMA

DESCRIPTION

415' FNL & 1935' FEL

SOUTH STANGL  
1509 2H-2X

REVISION:

INT

DATE

DATE: 04/24/20

FILE: LO\_SOUTH\_STANGL\_1509\_2H-12X

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. 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