

API NUMBER: 073 26827

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

Approval Date: 02/09/2022

Expiration Date: 08/09/2023

Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 01 Township: 16N Range: 8W County: KINGFISHER

SPOT LOCATION: ☐ SW ☐ NW ☐ NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 438 2312

Lease Name: MUEGGENBORG 1708

Well No: 2H-25X

Well will be 438 feet from nearest unit or lease boundary.

Operator Name: OVINTIV USA INC

Telephone: 2812105100

OTC/OCC Number: 21713 0

OVINTIV USA INC

THE WOODLANDS, TX 77380-3197

TARY DALE HELT AND CHARLOTTE ANN HELT

19138 N 2810 ROAD

KINGFISHER OK 73750

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

Name	Code	Depth
1 MISSISSIPPIAN	359MSSP	8169

Spacing Orders: 621906

Location Exception Orders: No Exceptions

Increased Density Orders: No Density

Pending CD Numbers: 202102877

Working interest owners' notified: ***

Special Orders: No Special

202102878

202102881

202102875

202102876

Total Depth: 19174

Ground Elevation: 1158

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 210

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: 22-38094
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

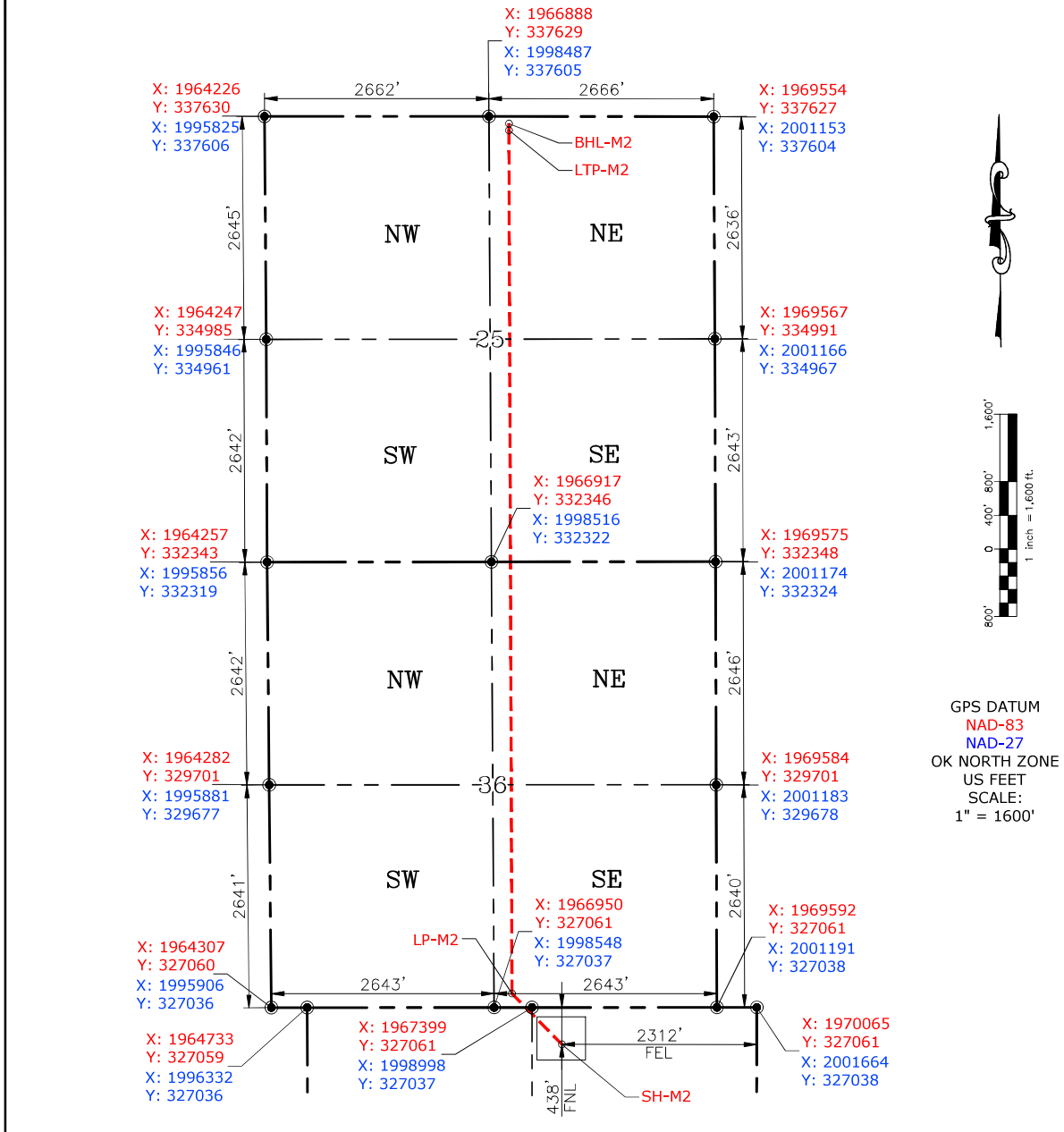
Section: 25	Township: 17N	Range: 8W	Meridian: IM	Total Length: 10238
County: KINGFISHER				Measured Total Depth: 19174
Spot Location of End Point: NW NW NW NE				True Vertical Depth: 8169
Feet From: NORTH		1/4 Section Line: 85		End Point Location from
Feet From: EAST		1/4 Section Line: 2430		Lease, Unit, or Property Line: 85

NOTES:

Category	Description
DEEP SURFACE CASING	[2/9/2022 - G56] - 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>[2/9/2022 - G56] - 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: OCCEWEB.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 FRACFOCU</p>
INTERMEDIATE CASING	[2/9/2022 - G56] - DUE TO THE KNOWN POTENTIAL RISK OF ENCOUNTERING AN OVERPRESSURED ZONE IN THE MORROW SERIES IN THIS AREA, THE TECHNICAL MANAGER RECOMMENDS SETTING AN INTERMEDIATE STRING OF CASING IMMEDIATELY ABOVE THE MORROW SERIES
MEMO	[2/9/2022 - G56] - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 202102875	<p>[2/9/2022 - G56] - 25-17N-8W</p> <p>X621906 MSSP</p> <p>2 WELLS</p> <p>NO OP NAMED</p> <p>REC 1/18/2022 (MYLES)</p>
PENDING CD - 202102876	<p>[2/9/2022 - G56] - 36-17N-8W</p> <p>X621906 MSSP</p> <p>2 WELLS</p> <p>NO OP NAMED</p> <p>REC 1/18/2022 (MYLES)</p>
PENDING CD - 202102877	<p>[2/9/2022 - G56] - (I.O.) 25 & 36-17N-8W</p> <p>EST MULTIUNIT HORIZONTAL WELL</p> <p>X621906 MSSP, OTHER</p> <p>50% 25-17N-8W</p> <p>50% 36-17N-8W</p> <p>NO OP NAMED</p> <p>REC 1/18/2022 (MYLES)</p>
PENDING CD - 202102878	<p>[2/9/2022 - G56] - (I.O.) 25 & 36-17N-8W</p> <p>X621906 MSSP, OTHER</p> <p>COMPL INT (25-17N-8W) NCT 165' FNL, NCT 0' FSL, NCT 1320' FEL</p> <p>COMPL INT (36-17N-8W) NCT 0' FNL, NCT 165' FSL, NCT 1320' FEL</p> <p>NO OP NAMED</p> <p>REC 1/18/2022 (MYLES)</p>
PENDING CD - 202102881	<p>[2/9/2022 - G56] - (I.O.) 25 & 36-17N-8W</p> <p>X165:10-3-28(C)(2)(B) MSSP (MUEGGENBORG 1708 2H-25X)</p> <p>MAY BE CLOSER THAN 600' TO EXISTING AND/OR PROPOSED WELLS</p> <p>NO OP NAMED</p> <p>REC 1/18/2022 (MYLES)</p>
SPACING - 621906	<p>[2/9/2022 - G56] - (640)(HOR) 25 & 36-17N-8W</p> <p>VAC 42491 MSCST 36-17N-8W</p> <p>VAC 78431 MNNG, MSSP N2, SE4, E2 SW4 25 & S2, NE4, W2 NW4 36-17N-8W</p> <p>EST MSSP, OTHER</p> <p>COMPL INT NCT 660' FB</p> <p>(COEXIST WITH SP # 78431/79058 MNNG, MSSSD W2 SW4 25-17N-8W, E2 NW4 36-17N-8W)</p>

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073 26827 MUEGGENBORG 1708 2H-25X



PROPOSED SURFACE LOCATION

STATE PLANE COORDINATE - OK NORTH ZONE
NAD-83 X: 1967753 Y: 326623
NAD-27 X: 1999352 Y: 326599
GEOGRAPHIC NAD-83: LAT: N35.897274 LON: W98.002523
GEOGRAPHIC NAD-27: LAT: N35.897233 LON: W98.002189
NAT. GROUND ELEV. 1158.48'
CALLS: 438' FNL, 2312' FEL OF 1-16N-8W

PROPOSED LANDING POINT

STATE PLANE COORDINATE - OK NORTH ZONE
NAD-83 X: 1967162 Y: 327226
NAD-27 X: 1998761 Y: 327202
GEOGRAPHIC NAD-83: LAT: N35.898930 LON: W98.004519
GEOGRAPHIC NAD-27: LAT: N35.898889 LON: W98.004183
CALLS: 165' FSL, 2430' FEL OF 36-17N-8W

PROPOSED LAST TAKE POINT

STATE PLANE COORDINATE - OK NORTH ZONE
NAD-83 X: 1967125 Y: 337464
NAD-27 X: 1998724 Y: 337440
GEOGRAPHIC NAD-83: LAT: N35.927056 LON: W98.004644
GEOGRAPHIC NAD-27: LAT: N35.927014 LON: W98.004308
CALLS: 165' FNL, 2430' FEL OF 25-17N-8W

PROPOSED BOTTOM HOLE LOCATION

STATE PLANE COORDINATE - OK NORTH ZONE
NAD-83 X: 1967125 Y: 337544
NAD-27 X: 1998724 Y: 337520
GEOGRAPHIC NAD-83: LAT: N35.927276 LON: W98.004646
GEOGRAPHIC NAD-27: LAT: N35.927236 LON: W98.004311
CALLS: 85' FNL, 2430' FEL OF 25-17N-8W

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact PLS promptly if any inconsistency is determined. GPS data is observed from RTK-GPS. NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey. Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true Boundary Survey.

CERTIFICATE:

I, **FRED A. SELENSKY**, an Oklahoma Licensed Land Surveyor and an authorized agent of Petro Land Services South, LLC, do hereby certify to the information shown herein.



Oklahoma PLS No.1860 DATE **2-3-22**

REVISIONS

No.	DATE	STAKED	BY	DESCRIPTION	COMMENTS
00	02-02-22	01-04-22	HDG	ISSUED FOR APPROVAL	--