

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

API NUMBER: 037 29465

Approval Date: 12/02/2020

Expiration Date: 06/02/2022

Straight Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 23 Township: 16N Range: 8E County: CREEK

SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 1750 1650

Lease Name: MURREL Well No: #4 Well will be 330 feet from nearest unit or lease boundary.

Operator Name: LUKE OIL COMPANY Telephone: 9187606026 OTC/OCC Number: 18170 0

LUKE OIL COMPANY
PO BOX 1257
BRISTOW, OK 74010-1257

MIKE BEACH
39335 W. 221ST ST. S.
BRISTOW OK 74010

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

Name	Code	Depth	Name	Code	Depth
1 CLEVELAND UP	405CLVDU	1788	6 BARTLESVILLE UPPER	404BRVLU	2830
2 OSWEGO	404OSWG	2188	7 BARTLESVILLE LOWER	404BRVLL	2850
3 PRUE	404PRUE	2340	8 DUTCHER (ATOKA)	403DTCAT	3183
4 SKINNER	404SKNR	2490	9 MISSISSIPPI LIME	351MSSLM	3395
5 RED FORK	404RDFK	2640	10 WILCOX	202WLCX	3750

Spacing Orders: 254310

Location Exception Orders: No Exceptions

Increased Density Orders: No Density Orders

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 3750

Ground Elevation: 885

Surface Casing: 530

Depth to base of Treatable Water-Bearing FM: 470

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

PIT 1 INFORMATION

Type of Pit System: ON SITE

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: 2

Liner not required for Category: 2

Pit Location is: BED AQUIFER

Pit Location Formation: VAMOOSA

NOTES:

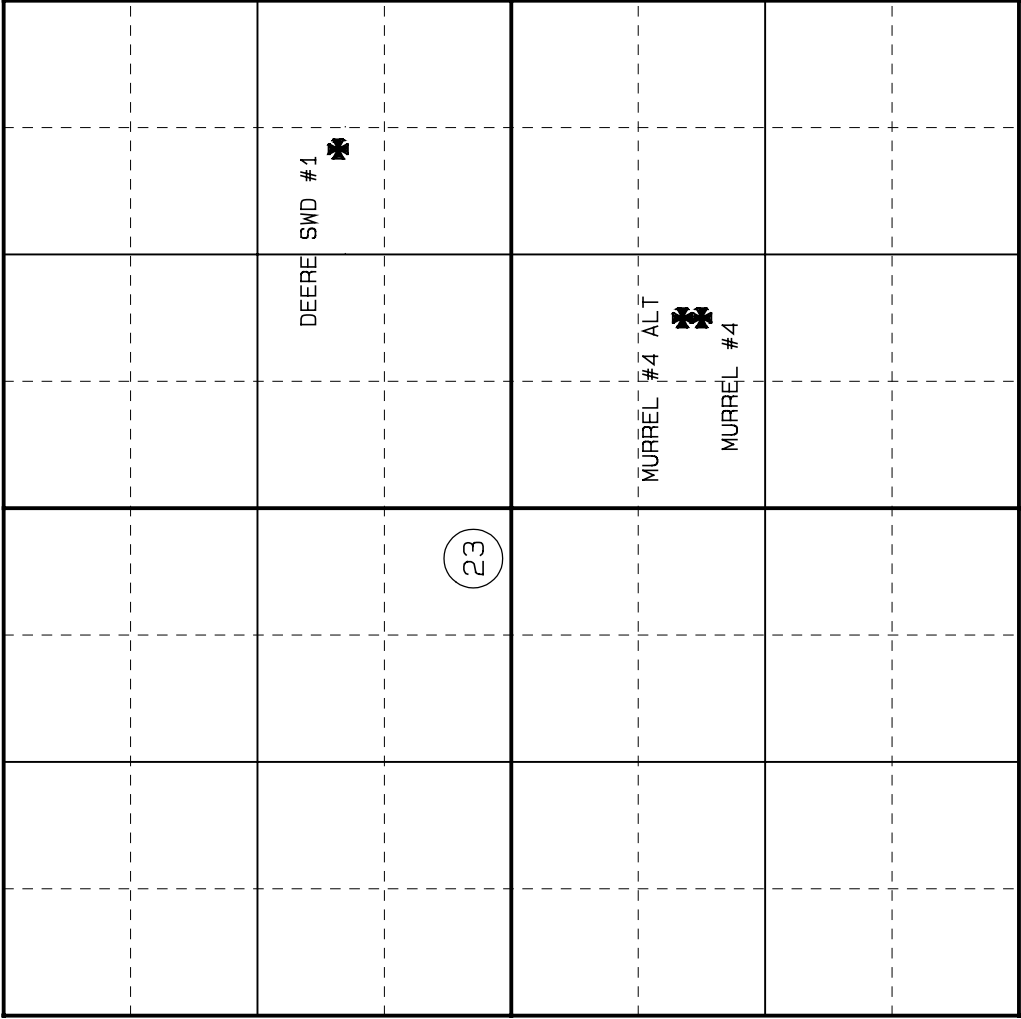
This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation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

Category	Description
HYDRAULIC FRACTURING	<p>[11/23/2020 - 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: 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 FRACFOCUS.ORG</p>
SPACING	[12/1/2020 - GB6] - OSWG UNSPACED; 40-ACRE LEASE (NW4 SE4 23-16N-8E)
SPACING - 254310	[12/1/2020 - GB6] - (40) SE4 23-16N-8E EST CLVDU, CLVDL, PRUE, SKNR, RDFK, BRVLU, BRVLL, DTCAT, MSSLM, WLCX, OTHERS
SURFACE CASING	[11/23/2020 - GC2] - SURFACE CASING DETERMINED BY MAP WITH ORDER 82644

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WELL LOCATION FOR: Luke Oil

R-8-E



MURREL #4
1650' F.S.L. &
1650' F.E.L. SE/4
SEC 23-T16N-R8E
ELV 885'

MURREL #4 ALT
1750' F.S.L. &
1650' F.E.L. SE/4
SEC 23-T16N-R8E
ELV 888'

DEERE SWD #1
900' F.S.L. &
772' F.E.L. NE/4
SEC 23-T16N-R8E
ELV 879'

DUE CARE AND DILIGENCE HAVE BEEN EXERCISED IN THE
STAKING OF THIS WELL LOCATION ON THE GROUND
ACCORDING TO THE BEST OFFICIAL RECORDS AND MAPS
AVAILABLE TO US.
PLEASE REVIEW THIS PLAT AND NOTIFY US IMMEDIATELY
OF ANY DISCREPANCY

PENNY LAND SURVEYING
P.O. BOX 52, SAPULPA, OK, 74067
(918) -367-2942; (918) -724-2468
CA# 2074

DATE OF LAST SITE VISIT: 10-2-20
DATE OF REVISIONS: