

API NUMBER: 087 22370

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

Approval Date: 06/16/2022

Expiration Date: 12/16/2023

Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 15 Township: 6N Range: 2W County: MCCLAIN

SPOT LOCATION: ☐ NW ☐ SE ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 408 2138

Lease Name: MCELDERRY MU37 22-27

Well No: 3HX

Well will be 408 feet from nearest unit or lease boundary.

Operator Name: LRR IV OPERATING INC

Telephone: 7132929535

OTC/OCC Number: 24554 0

LRR IV OPERATING INC
1111 BAGBY STREET STE 4600
HOUSTON, TX 77002MCELDERRY RENTALS, LLC
P.O. BOX 428
PURCELL OK 73080

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

Name	Code	Depth
1 WOODFORD	319WDFD	7154

Spacing Orders: 660243
678048
726180

Location Exception Orders: 724926

Increased Density Orders: 725010
725011

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 18614

Ground Elevation: 1125

Surface Casing: 390

Depth to base of Treatable Water-Bearing FM: 340

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

Approved Method for disposal of Drilling Fluids:

F. Haul to Commercial soil farming facility	Sec. 1 Twn. 7S Rng. 3E Cnty. 85 Order No: 549455
H. (Other)	CLOSED SYSTEM=STEEL PITS (REQUIRED - PURCELL LAKE)

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: PURCELL

MULTI UNIT HOLE 1

Section: 27 Township: 6N Range: 2W Meridian: 1M

Total Length: 10245

County: MCCLAIN

Measured Total Depth: 18614

Spot Location of End Point: S2 S2 SE SW

True Vertical Depth: 7500

Feet From: SOUTH 1/4 Section Line: 90

End Point Location from
Lease, Unit, or Property Line: 90

Feet From: WEST 1/4 Section Line: 1980

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.

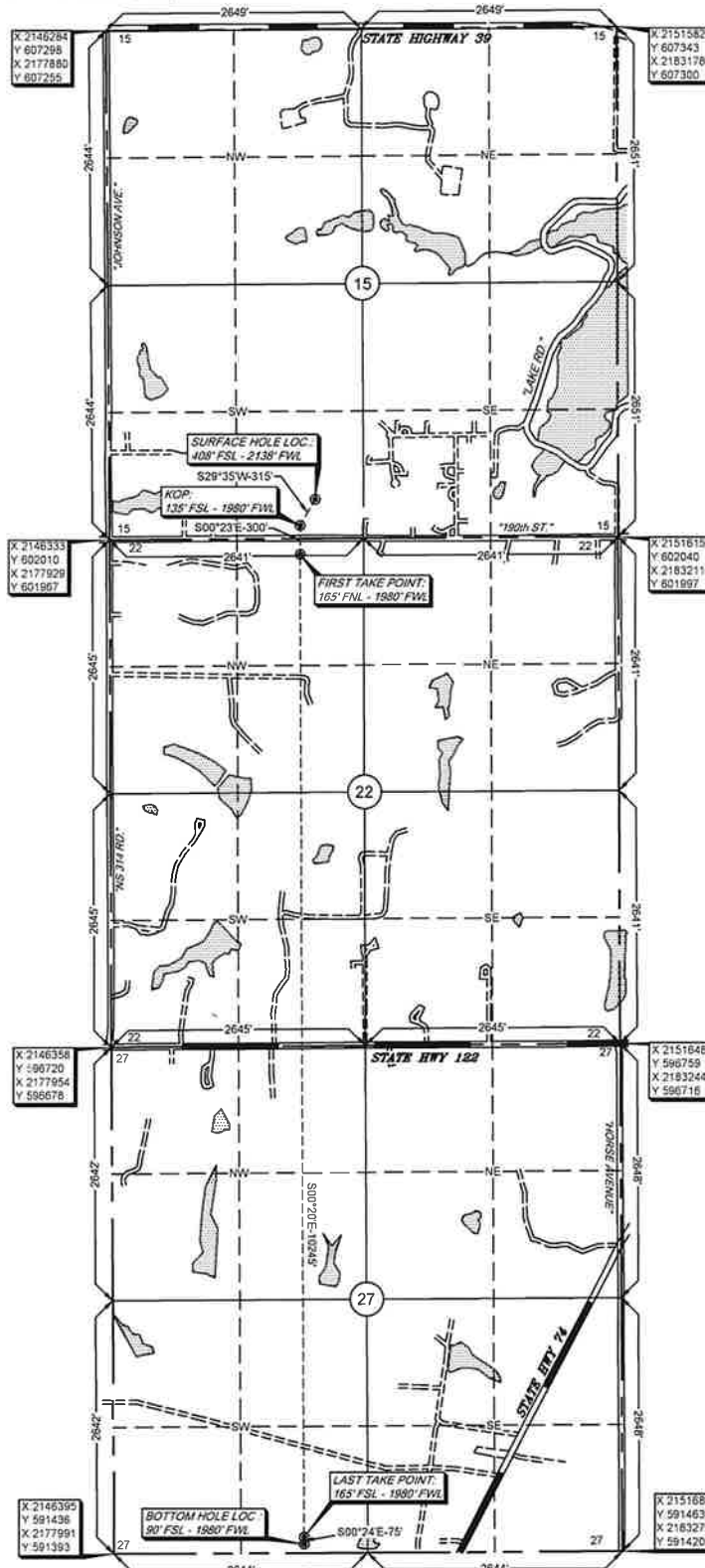
Category	Description
HYDRAULIC FRACTURING	<p>[5/26/2022 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE 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 - 725010	<p>[6/16/2022 - GB1] - 22-6N-2W X660243 WDFD 3 WELLS LRR IV OPERATING INC 4/21/2022</p>
INCREASED DENSITY - 725011	<p>[6/16/2022 - GB1] - 27-6N-2W X678048 WDFD 3 WELLS LRR IV OPERATING INC 4/21/22</p>
LOCATION EXCEPTION - 724926	<p>[6/16/2022 - GB1] - (I.O.) 22 & 27-6N-2W X660243 WDFD 22-6N-2W X678048 WDFD 27-6N-2W COMPL INT (22-6N-2W) NCT 165' FNL, NCT 0' FSL, NCT 660' FWL COMPL INT (27-6N-2W) NCT 0' FNL, NCT 165' FSL, NCT 660' FWL LRR IV OPERATING INC 4/18/22</p>
SPACING - 660243	<p>[6/16/2022 - GB1] - (640)(HOR) 22-6N-2W EXT 635106 WDFD COMPL. INT. NCT 165' FNL/FSL, NCT 330' FEL/FWL</p>
SPACING - 678048	<p>[6/16/2022 - GB1] - (640)(HOR) 27-6N-2W VAC 450070 NW4 WDFD EXT 660056 WDFD COMPL. INT. NLT 165' FNL/FSL, NLT 330' FEL/FWL</p>
SPACING - 726180	<p>[6/16/2022 - GB1] - (I.O.) 22 & 27-6N-2W EST MULTIUNIT HORIZONTAL WELL X660243 WDFD 22-6N-2W X678048 WDFD 27-6N-2W 50% 22-6N-2W 50% 27-6N-2W LRR IV OPERATING INC 6/15/22</p>



Well Location Plat

S.H.L. Sec. 15-6N-2W I.M.
B.H.L. Sec. 27-6N-2W I.M.

Operator: LIME ROCK RESOURCES
Lease Name and No.: McELDERRY MU37 22-27 3HX
Surface Hole Location: 408' FSL - 2138' FWL Gr. Elevation: 1125'
NW1/4-SE1/4-SW1/4 Section 15 Township 6N Range 2W I.M.
Bottom Hole Location: 90' FSL - 1980' FWL
SE1/4-SW1/4-SE1/4-SW1/4 Section 27 Township 6N Range 2W I.M.
County: McClain State of Oklahoma
Terrain at Loc.: Location fell in mostly heavy timber.



GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.: Lat: 34°59'14.01"N Lon: 97°23'56.80"W Lat: 34.98722402 Lon: -97.39911060 X: 2148487 Y: 602430	Surface Hole Loc.: Lat: 34°59'13.75"N Lon: 97°23'55.69"W Lat: 34.98715195 Lon: -97.39880403 X: 2180083 Y: 602388
Kick Off Point: Lat: 34°59'11.31"N Lon: 97°23'58.93"W Lat: 34.98647404 Lon: -97.39970190 X: 2148311 Y: 602156	Kick Off Point: Lat: 34°59'11.05"N Lon: 97°23'57.82"W Lat: 34.98640195 Lon: -97.39939533 X: 2179908 Y: 602114
First Take Point: Lat: 34°59'08.34"N Lon: 97°23'58.92"W Lat: 34.98564977 Lon: -97.39970122 X: 2148313 Y: 601856	First Take Point: Lat: 34°59'08.08"N Lon: 97°23'57.62"W Lat: 34.98557767 Lon: -97.39939466 X: 2179910 Y: 601814
Last Take Point: Lat: 34°57'27.00"N Lon: 97°23'58.93"W Lat: 34.95750010 Lon: -97.39970269 X: 2148374 Y: 591611	Last Take Point: Lat: 34°57'26.74"N Lon: 97°23'57.83"W Lat: 34.95742724 Lon: -97.39939644 X: 2179970 Y: 591568
Bottom Hole Loc.: Lat: 34°57'26.26"N Lon: 97°23'58.93"W Lat: 34.95729403 Lon: -97.39970241 X: 2148374 Y: 591536	Bottom Hole Loc.: Lat: 34°57'26.00"N Lon: 97°23'57.63"W Lat: 34.95722117 Lon: -97.39939617 X: 2179971 Y: 591493

Please note that this location was taken on the ground under the supervision of the undersigned and that the location was taken on the ground under the supervision of the undersigned. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is obtained from RTK - GPS. -NOTE: X and Y data shown herein for Section Corners may NOT have been surveyed by the undersigned. Quarter Section distances may be assessed from a Government Survey (if all is assumed at a proportional 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.

Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2022

Invoice #9563-A-E
Date Slaked: N/A
Date Drawn: 10/11/2021 By: J.L.
Rev. FTP/Added KOP: 10/18/2021 By: J.L.
Added SHL Elev. 05/12/2022 By: J.L.

Certification:
This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

LANCE G. MATHIS

05/12/2022
OK LPLS 1664

