

API NUMBER: 087 22369

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 2118

Lease Name: MCELDERRY MU37 22-27 Well No: 2HX 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 77002

MCELDERRY 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 Location Exception Orders: 724925 Increased Density Orders: 725010
678048 725011
726179

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: IM Total Length: 10245
County: MCCLAIN Measured Total Depth: 18614
Spot Location of End Point: S2 S2 SW SW True Vertical Depth: 7500
Feet From: SOUTH 1/4 Section Line: 90 End Point Location from
Feet From: WEST 1/4 Section Line: 660 Lease, Unit, or Property Line: 90

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>[6/6/2022 - 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 - 724925	<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 330' FWL COMPL INT (27-6N-2W) NCT 0' FNL, NCT 165' FSL, NCT 330' 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 - 726179	<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.

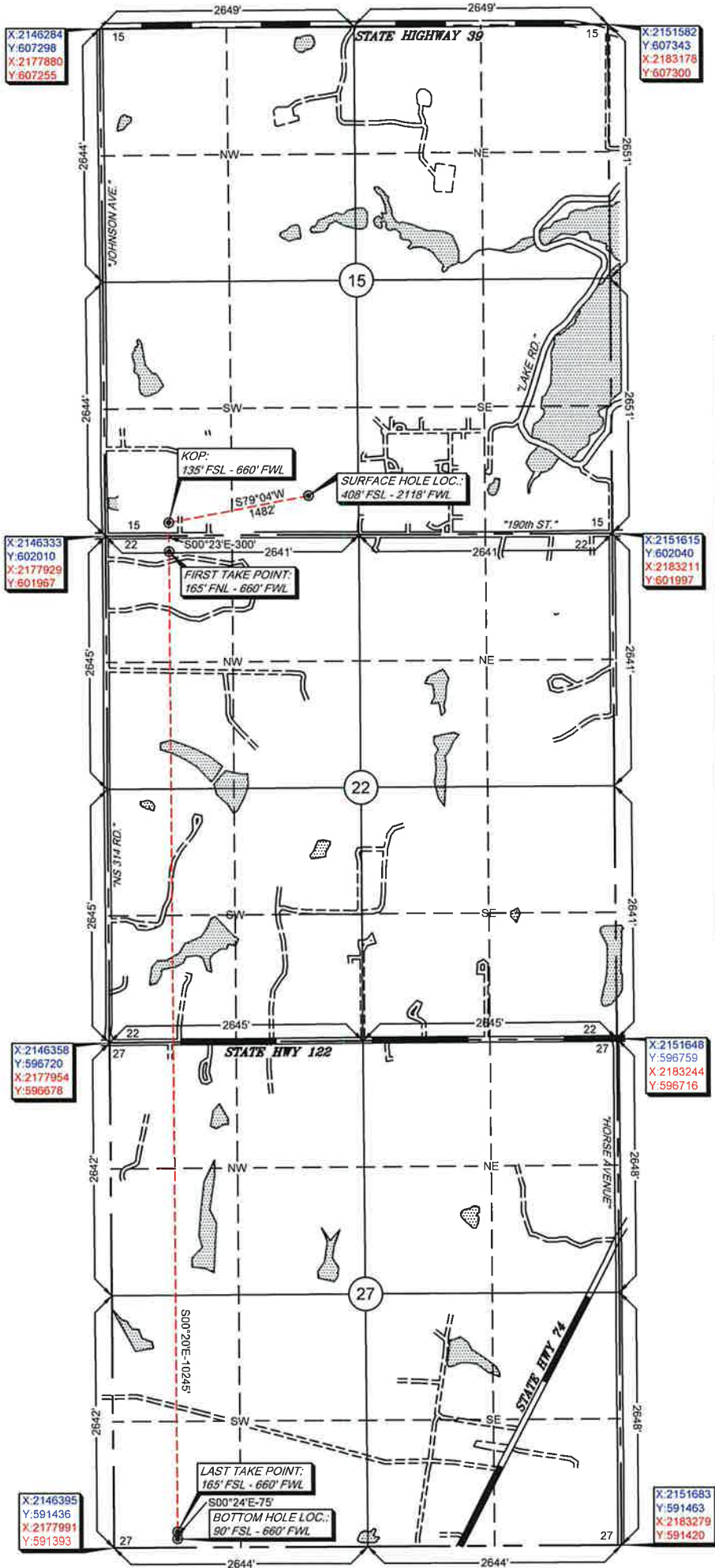
Operator: LIME ROCK RESOURCES
Lease Name and No.: McELDERRY MU37 22-27 2HX
Surface Hole Location: 408' FSL - 2118' FWL Gr. Elevation: 1125'
NW/4-SE/4-SW/4 Section: 15 Township: 6N Range: 2W I.M.
Bottom Hole Location: 90' FSL - 660' FWL
SE/4-SW/4-SW/4 Section: 27 Township: 6N Range: 2W I.M.
County: McClain State of Oklahoma
Terrain at Loc.: Location fell in mostly heavy timber.



All bearings shown
are grid bearings.

0 750' 1500' 2250'
1" = 1500'

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°24'14.79"W Lat: 34.98647467 Lon: -97.40410870 X: 2146991 Y: 602149	Kick Off Point: Lat: 34°59'11.05"N Lon: 97°24'13.69"W Lat: 34.98640264 Lon: -97.40380204 X: 2178588 Y: 602106
First Take Point: Lat: 34°59'08.34"N Lon: 97°24'14.79"W Lat: 34.98565041 Lon: -97.40410795 X: 2146993 Y: 601849	First Take Point: Lat: 34°59'08.08"N Lon: 97°24'13.68"W Lat: 34.98557836 Lon: -97.40380131 X: 2178590 Y: 601806
Last Take Point: Lat: 34°57'27.01"N Lon: 97°24'14.79"W Lat: 34.95750279 Lon: -97.40410793 X: 2147054 Y: 591604	Last Take Point: Lat: 34°57'26.75"N Lon: 97°24'13.69"W Lat: 34.95742999 Lon: -97.40380160 X: 2178650 Y: 591561
Bottom Hole Loc.: Lat: 34°57'26.27"N Lon: 97°24'14.79"W Lat: 34.95729672 Lon: -97.40410764 X: 2147054 Y: 591529	Bottom Hole Loc.: Lat: 34°57'26.01"N Lon: 97°24'13.68"W Lat: 34.95722392 Lon: -97.40380132 X: 2178651 Y: 591486

-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 Arkoma Surveying and Mapping promptly if any inaccuracy 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.

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-D
Date Staked: 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

