

API NUMBER: 087 22367

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

Approval Date: 06/08/2022  
Expiration Date: 12/08/2023

Multi Unit Oil & Gas

## PERMIT TO DRILL

WELL LOCATION: Section: 31 Township: 6N Range: 1W County: MCCLAIN

SPOT LOCATION: ☐ NW ☐ NE ☐ NE ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST  
SECTION LINES: 291 2032

Lease Name: MCPHERSON MU48-53 31-06-07 Well No: 4HEX Well will be 291 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

JUDY MCPHERSON TRUSTEE OF THE JUDY M. MCPHERSON  
LIVING TRUST  
25562 SOONER AVE  
PURCELL OK 73080

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

Name	Code	Depth
1 WOODFORD	319WDFD	7154

Spacing Orders: 724694 Location Exception Orders: 724697 Increased Density Orders: 724547  
658396 724449  
658401  
681311

Pending CD Numbers: No Pending

Working interest owners' notified: \*\*\*

Special Orders: No Special

Total Depth: 22750 Ground Elevation: 1096 Surface Casing: 250 Depth to base of Treatable Water-Bearing FM: 200

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 PER OPERATOR REQUEST

### 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: ALLUVIAL

Pit Location Formation: ALLUVIUM

### 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: ALLUVIAL

Pit Location Formation: alluvium

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: 6	Township: 5N	Range: 1W	Meridian: IM	Total Length: 10253	
County: MCCLAIN				Measured Total Depth: 22750	
Spot Location of End Point: SW		SE	SW	SE	True Vertical Depth: 7200
Feet From: <b>NORTH</b>		1/4 Section Line: 50		End Point Location from	
Feet From: <b>EAST</b>		1/4 Section Line: 1874		Lease, Unit, or Property Line: 50	

Additional Surface Owner(s)	Address	City, State, Zip
JUDY MCPHERSON TRUSTEE OF THE JUDY M. MCPHERSON LIVING TRUST	25562 SOONER AVE	PURCELL, OK 73080

NOTES:

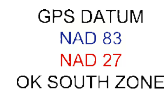
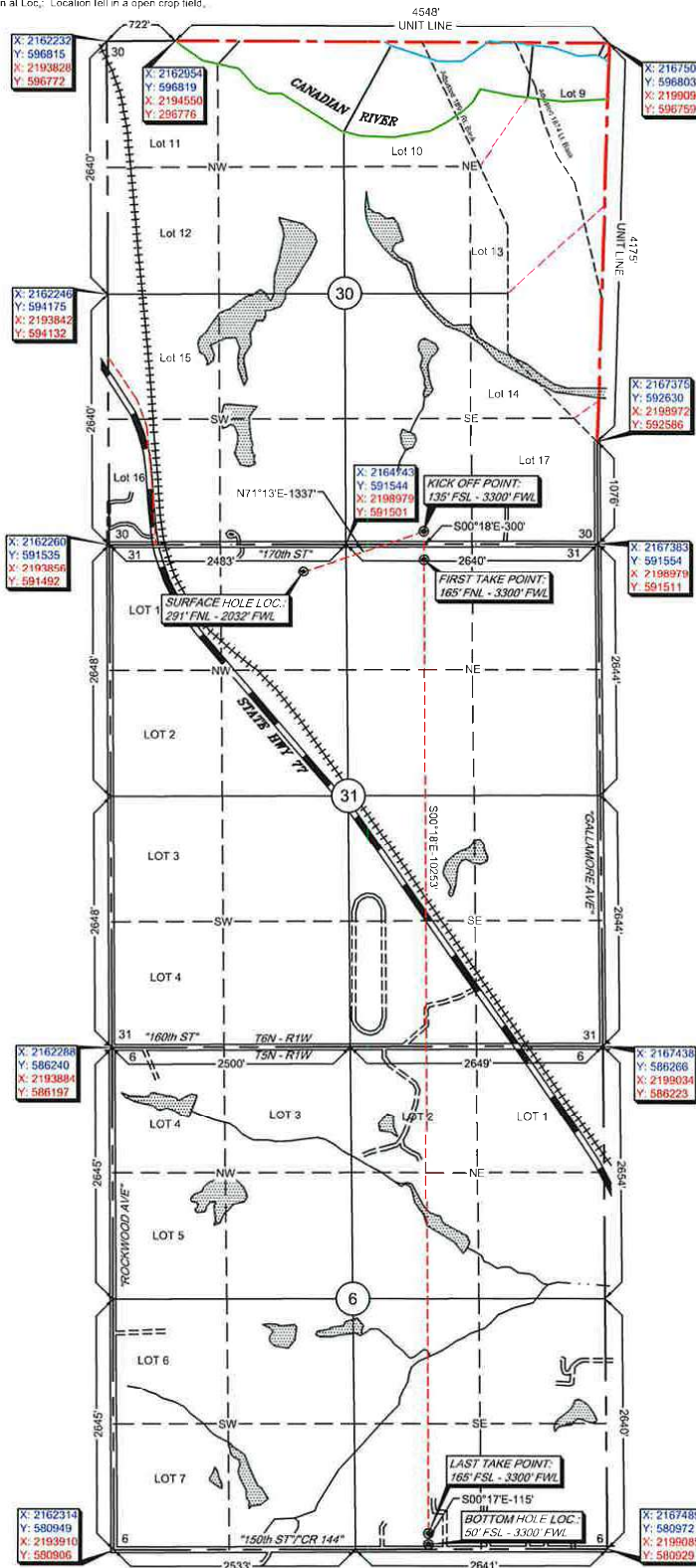
Category	Description
HYDRAULIC FRACTURING	<p>[5/26/2022 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE 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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; 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 <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
INCREASED DENSITY - 724449	<p>[6/6/2022 - G56] - 6-5N-1W X658401 WDFD 3 WELLS LRR IV OP INC 3/29/2022</p>
INCREASED DENSITY - 724547	<p>[6/6/2022 - G56] - 31-6N-1W X658396 WDFD 3 WELLS LRR IV OP INC 3/29/2022</p>
LOCATION EXCEPTION - 724697	<p>[6/6/2022 - G56] - (I.O.) 6 &amp; 7-5N-1W &amp; 31-6N-1W X658401 WDFD 6-5N-1W X681311 WDFD 7-5N-1W*** X658396 WDFD 31-6N-1W COMPL INT (31-6N-1W) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (6-5N-1W) NCT 0' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (7-5N-1W)) NCT 0' FNL, NCT 990' FNL, NCT 330' FEL*** LRR IV OP INC 4/5/2022</p> <p>*** COMPL INT WILL NOT ENTER 7-5N-1W PER OPERATOR; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR;</p>
SPACING - 658396	<p>[6/6/2022 - G56] - (640)(HOR) 31-6N-1W EST WDFD, OTHERS COMPL INT NCT 165' FNL &amp; FSL, NCT 330' FEL &amp; FWL</p>
SPACING - 658401	<p>[6/6/2022 - G56] - (640) 6-5N-1W EST WDFD, OTHERS COMPL INT NCT 165' FNL &amp; FSL, NCT 330' FEL &amp; FWL</p>
SPACING - 681311	<p>[6/6/2022 - G56] - (640)(HOR) 7-5N-1W VAC 615300 WDFD N2 NE4 VAC 616923 WDFD NW4, W2 SW4 EXT 634765 WDFD COMPL INT NLT 165' FNL &amp; FSL, NLT 330' FEL &amp; FWL (COEXIST WITH SP # 615300 S2 NE, # 616923 E2 SW4)</p>
SPACING - 724694	<p>[6/6/2022 - G56] - (I.O.) 6 &amp; 7-5N-1W &amp; 31-6N-1W EST MULTIUNIT HORIZONTAL WELL X658401 WDFD 6-5N-1W X681311 WDFD 7-5N-1W X658396 WDFD 31-6N-1W 33% 31-6N-1W*** 34% 6-5N-1W*** 33% 7-5N-1W*** LRR IV OP INC 4/5/2022</p> <p>*** S/B 50% 31-6N-1W, 50% 6-5N-1W; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR;</p>

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.

087 22367 MCPHERSON MU48-53 31-06-07 4HEX



Operator: LIME ROCK RESOURCES  
**Lease Name and No.:** MCPHERSON MU48-53-31-06-07 4HEX  
 Surface Hole Location: 291° FNL - 2032° FWL Gr. Elevation: 1095'  
 NW1/4-NE1/4-NE1/4-NW1/4 Section: 31 Township: 6N Range: 1W 1M  
 Bottom Hole Location: 50° FSL - 3309° FWL  
 SW1/4-SE1/4-SW1/4-SE1/4 Section: 6 Township: 5N Range: 1W 1M  
 County: McClain State of Oklahoma  
 Terrain at Loc.: Location fell in a open crop field.



Surface Hole Loc.: Lat: 34°57'22.46"N Lon: 97°20'47.70"W Lat: 34.95624045 Lon: -97.34659318 X: 2164294 Y: 591252	Surface Hole Loc.: Lat: 34°57'22.20"N Lon: 97°20'46.60"W Lat: 34.95166664 Lon: -97.34627796 X: 2195890 Y: 591205
Click Off Point: Lat: 34°57'26.64"N Lon: 97°20'32.46"W Lat: 34.95140074 Lon: -97.34234986 X: 2165559 Y: 591682	Click Off Point: Lat: 34°57'26.38"N Lon: 97°20'31.36"W Lat: 34.95732709 Lon: -97.34204472 X: 2197155 Y: 591639
First Take Point: Lat: 34°57'23.68"N Lon: 97°20'32.46"W Lat: 34.95657647 Lon: -97.34235106 X: 2165561 Y: 591382	First Take Point: Lat: 34°57'23.41"N Lon: 97°20'31.37"W Lat: 34.95560280 Lon: -97.34204592 X: 2197157 Y: 591339
Last Take Point: Lat: 34°55'42.26"N Lon: 97°20'32.64"W Lat: 34.92840466 Lon: -97.34239900 X: 2165613 Y: 591129	Last Take Point: Lat: 34°55'41.99"N Lon: 97°20'31.54"W Lat: 34.92833025 Lon: -97.34209417 X: 2197209 Y: 591086
Bottom Hole Loc.: Lat: 34°55'41.12"N Lon: 97°20'32.64"W Lat: 34.92808869 Lon: -97.34239962 X: 2165614 Y: 591014	Bottom Hole Loc.: Lat: 34°55'40.85"N Lon: 97°20'31.54"W Lat: 34.92801427 Lon: -97.34209480 X: 2197210 Y: 590971

Please note that the location was stated on the ground under the supervision of a licensed Professional Land Surveyor, but the accuracy of the survey is not guaranteed. Please contact Adams Surveying and Mapping promptly if you have any questions. Gross plot is obtained from N.C. GIS. Net acreage is determined. Gross plot is obtained from N.C. GIS. No surveyed sub-division and lot line does NOT represent the true boundary. Section distance may be assumed from a Government Survey. Plat or assumed is a proportional distance from opposing section corners, or occupation the plat and may not have been measured on-the-ground, and corners do not represent a true boundary survey.

Invoice #9641-C  
Date Staked: 10/05/2021 By: D.W.  
Date Drawn: 10/08/2021 By: J.L.  
Rev. Lse. Nm.: 05/19/2022 By: R.M.  
Rev. SHL: 05/20/2022 By: J.L.  
Rev. Bore Path: 05/23/2022 By: J.L.

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*  
LANCE G. MATHIS

05/23/2022

OK LPLS 1664

