

API NUMBER: 087 22366

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: 316 2032

Lease Name: MCPHERSON MU48-53 31-06-07 Well No: 3HEX Well will be 316 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

TOMMIE MCPHERSON, JR, TRUSTEE OF THE TOMMIE
MCPHERSON LIVING TRUST
25562 SOONER AVE
PURCELL OK 73080

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

Name	Code	Depth
1 WOODFORD	319WDFD	6750

Spacing Orders: 724693
658396
658401
681311

Location Exception Orders: 724696

Increased Density Orders: 724485
724546
724449

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special

Total Depth: 22750

Ground Elevation: 1097

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: 7	Township: 5N	Range: 1W	Meridian: IM	Total Length: 12584	
County: MCCLAIN				Measured Total Depth: 22750	
Spot Location of End Point: N2 S2 SE NW				True Vertical Depth: 7100	
Feet From: NORTH		1/4 Section Line: 2215		End Point Location from	
Feet From: WEST		1/4 Section Line: 1980		Lease, Unit, or Property Line: 1980	

Additional Surface Owner(s)	Address	City, State, Zip
JUDY MCPHERSON TRUSTEE OF THE JUDY M. MCPHERSON LIVING TRUST	25562 SOONER AVE	PUCCELL, 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: 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 - 724449	<p>[6/6/2022 - G56] - 6-5N-1W X658401 WDFD 3 WELLS LRR IV OP INC 3/29/2022</p>
INCREASED DENSITY - 724485	<p>[6/6/2022 - G56] - 31-6N-1W X658396 WDFD 3 WELLS LRR IV OP INC 3/29/2022</p>
INCREASED DENSITY - 724546	<p>[6/6/2022 - G56] - 7-5N-1W X681311 WDFD 3 WELLS LRR IV OP INC 3/29/2022</p>
LOCATION EXCEPTION - 724696	<p>[6/6/2022 - G56] - (I.O.) 6 & 7-5N-1W & 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 660' FWL COMPL INT (6-5N-1W) NCT 0' FNL, NCT 0' FSL, NCT 660' FWL COMPL INT (7-5N-1W) NCT 0' FNL, NCT 165' FSL, NCT 660' FWL LRR IV OP INC 4/5/2022</p>
SPACING - 658396	<p>[6/6/2022 - G56] - (640)(HOR) 31-6N-1W EST WDFD, OTHERS COMPL INT NCT 165' FNL & FSL, NCT 330' FEL & FWL</p>
SPACING - 658401	<p>[6/6/2022 - G56] - (640) 6-5N-1W EST WDFD, OTHERS COMPL INT NCT 165' FNL & FSL, NCT 330' FEL & 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 & FSL, NLT 330' FEL & FWL (COEXIST WITH SP # 615300 S2 NE, # 616923 E2 SW4)</p>
SPACING - 724693	<p>[6/6/2022 - G56] - (I.O.) 6 & 7-5N-1W & 31-6N-1W EST MULTIUNIT HORIZONTAL WELL X658401 WDFD 6-5N-1W X681311 WDFD 7-5N-1W X658396 WDFD 31-6N-1W 41% 31-6N-1W 41% 6-5N-1W 18% 7-5N-1W LRR IV OP INC 4/5/2022</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 22366 MCPHERSON MU48-53 31-06-07 3HEX



Well Location Plat

S.H.L. Sec. 31-6N-1W I.M.
B.H.L. Sec. 7-5N-1W I.M.

Operator: LIME ROCK RESOURCES
Lease Name and No.: McPHERSON ML45-53 31-06-07 3HEX
Surface Hole Location: 316' FNL - 2032' FWL Gr. Elevation: 1097'
NW4-NE4-NE4-NW4 Section: 31 Township: 6N Range: 1W I.M.
Bottom Hole Location: 2215' FNL - 1980' FWL
NW4-SE4-SE4-NW4 Section: 7 Township: 5N Range: 1W I.M.
County: McClain State of Oklahoma
Terrain at Loc.: Location fall in an open crop field.

