API NUMBER: 087 22356 A

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

Approval Date: 05/05/2022
Expiration Date: 11/05/2023

Multi Unit Oil & Gas

Amend reason: SHL CHANGE

## **AMEND PERMIT TO DRILL**

WELL LOCATION:	Section:	33	Township:	7N	Range:	2W	County: I	MCCI	LAIN							
SPOT LOCATION:	N2 N	IE NW	NE	FEET FROM	QUARTER:	FROM	NORTH	FRC	M EAST							
				SECT	ION LINES:		282		1650							
Lease Name:	KENT MU1	6 28-21				Well No:	4HX			Well will be	282	feet from nearest	ınit or lea	se boundary.		
Operator Name:	LRR IV OP	ERATING IN	IC		Te	elephone:	71329295	535				OTC/OCC N	umber:	24554 0		
LRR IV OPERATING INC									BILL & LINDA H	OGUE						
1111 BAGBY STREET STE 4600								Ш	3118 S. 9TH							
HOUSTON,			TX	77002				Ш	PURCELL			OK 7308	0			
								Ш								
								ַ [								
Formation(s)	(Permit \	Valid for L	isted For	mations O	nly):			_								
Name			Code			Depth										
1 WOODFOR	D		319W	/DFD	7	7600										
Spacing Orders: 686256 Location Exception Order						otion Orders	s:	724691		Inc	creased Density Orde	rs: 7250	091			
	724689												7250	092		
Pending CD Number	are: No.	Pending	•			orking in	erest owne	re' no	tified: ***			Special Orde	s: No	Special		
r ending OD Number	513. <b>  NO</b>	ending	9			_								•		
Total Depth: 1	Total Depth: 18502 Ground Elevation: 1101 Surface Casing: 300 Depth to base of Treatable Water-Bearing FM: 250															
Under Federal Jurisdiction: No							[/	Approved Method for disposal of Drilling Fluids:								
Fresh Water	Supply Well	Drilled: No														
Surface Water used to Drill: Yes							l.	F. Haul to Commercial	soil farming	Sec. 1	Twn. 7S Rng. 3E Cnty	. 85 Order	No: 549455			
								- 1-	facility	-	055 14					
								Ľ	H. (Other)		SEE MI	EIVIO				
PIT 1 INFORMATION									Category of Pit: C							
Type of Pit System: CLOSED Closed System Means Steel Pits									Liner not required fo	r Category: C						
Type of Mud System: WATER BASED									Pit Location is: BED AQUIFER							
Chlorides Max: 5000 Average: 3000								Pit Location Forn	nation: PURCE	LL						
		_		below base of	pit? Y											
Within 1 i	mile of munici	•														
		rotection Are														
Pit <u>is</u> lo	ocated in a Hy	/drologically	Sensitive Ar	ea.												
PIT 2 INFORMATION									Category of Pit: C							
Type of Pit System: CLOSED Closed System Means Steel Pits									Liner not required for Category: C							
Type of Mud System: OIL BASED									Pit Location is: BED AQUIFER							
Chlorides Max: 300000 Average: 200000								Pit Location Forn	nation: PURCE	LL						
Is depth to top of ground water greater than 10ft below base of pit? Y																
Within 1 i	mile of munici	•														
Wellhead Protection Area? N																
Pit <u>is</u> lo	ocated in a Hy	/drologically	Sensitive Ar	ea.												

**MULTI UNIT HOLE 1** 

Section: 21 Township: 7N Range: 2W Meridian: IM Total Length: 10241

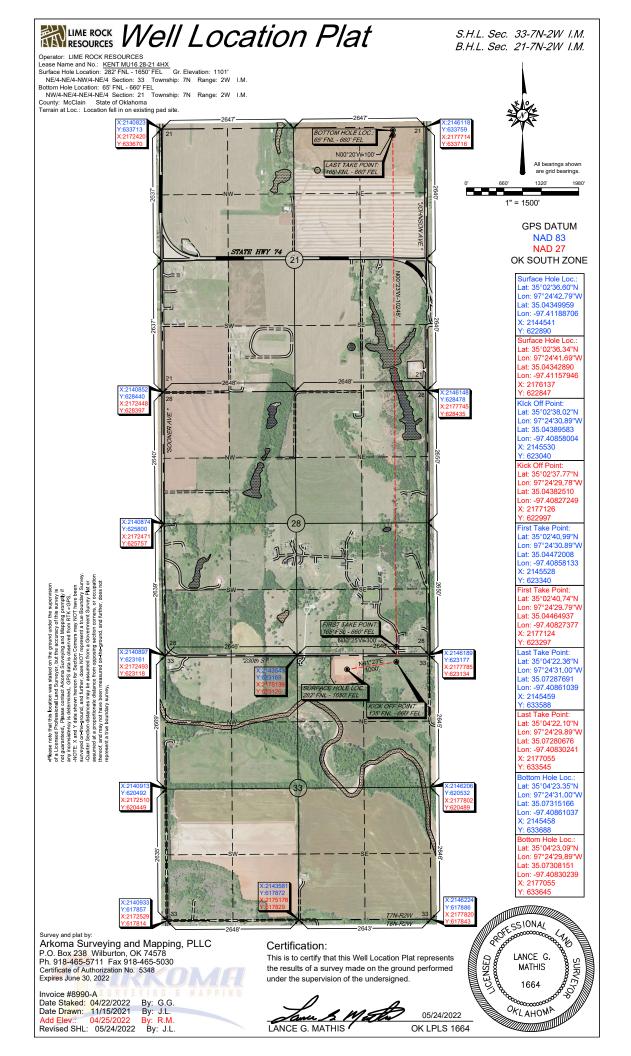
County: MCCLAIN Measured Total Depth: 18502

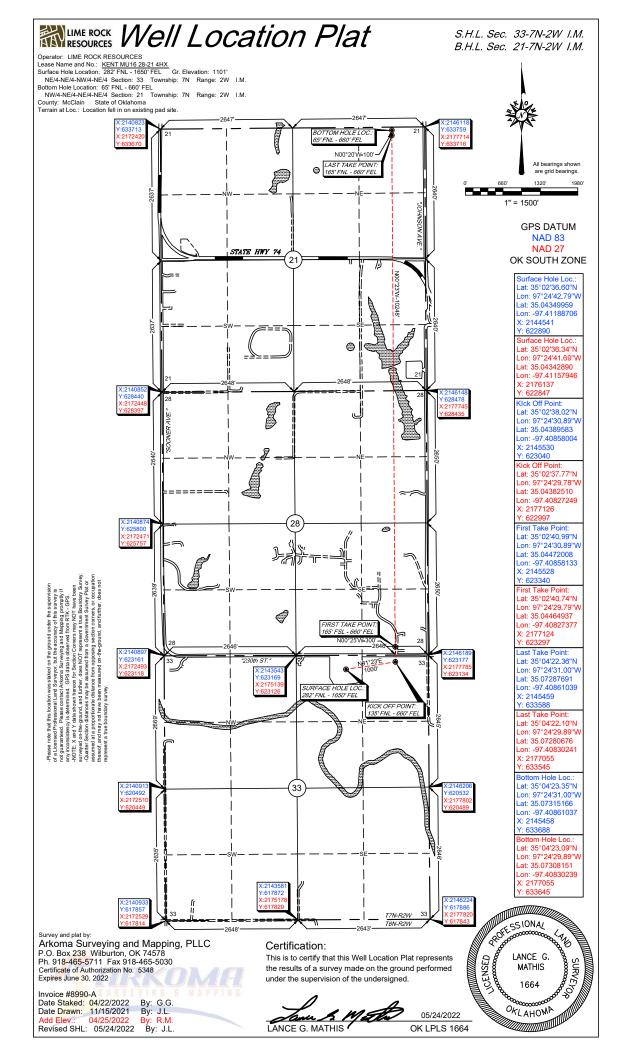
Spot Location of End Point: N2 N2 NE NE True Vertical Depth: 7600

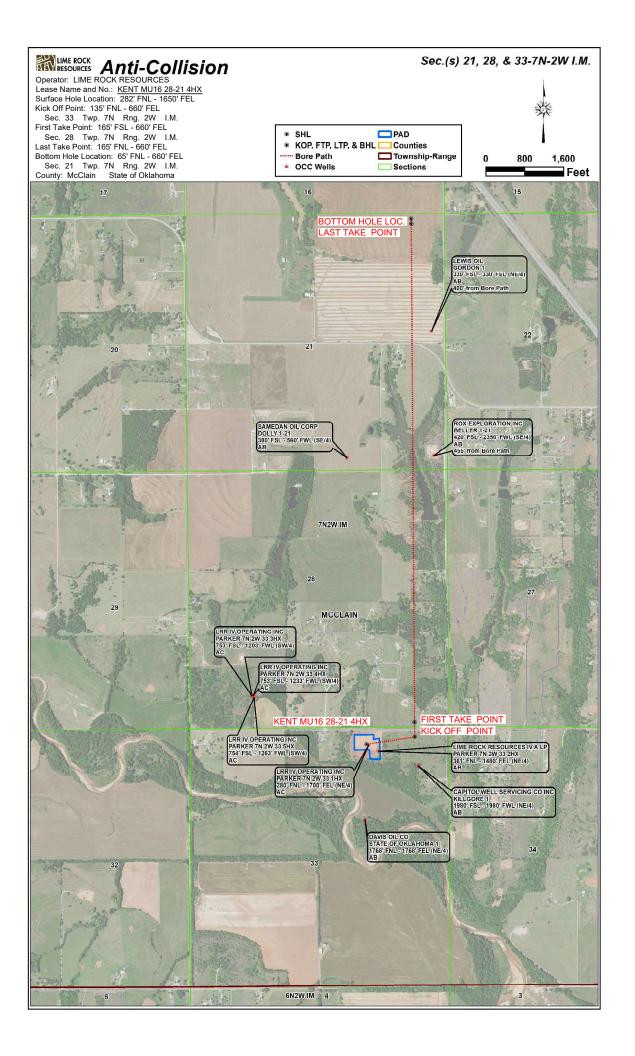
Feet From: NORTH 1/4 Section Line: 65 End Point Location from
Feet From: EAST 1/4 Section Line: 660 Lease,Unit, or Property Line: 65

NOTES:

NOTES:							
Category	Description						
HYDRAULIC FRACTURING	[4/26/2022 - GC2] - OCC 165:10-3-10 REQUIRES:						
	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;						
	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,						
	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						
INCREASED DENSITY - 725091	[5/4/2022 - G56] - (I.O.) 21-7N-2W X686256 WDFD 1 WELL LRR IV OP INC 4/26/2022						
INCREASED DENSITY - 725092	[5/4/2022 - G56] - (I.O.) 28-7N-2W X686256 WDFD 1 WELL LRR IV OP INC 4/26/2022						
LOCATION EXCEPTION - 724691	[5/4/2022 - G56] - (I.O.) 21 & 28-7N-2W X686256 WDFD COMPL INT (21-7N-7W) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL COMPL INT (28-7N-2W) NCT 165' FSL, NCT 0' FNL, NCT 330' FEL LRR IV OP INC 4/5/2022						
MEMO	[4/26/2022 - GC2] - CLOSED SYSTEM=STEEL PITS (REQUIRED - WALNUT CREEK), OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT						
SPACING - 686256	[5/4/2022 - G56] - (640)(HOR) 21 & 28-7N-2W EST WDFD, OTHERS POE TO BHL NCT 165' FNL/FSL, NCT 330' FEL/FWL						
SPACING - 724689	[5/4/2022 - G56] - (I.O.) 21 & 28-7N-2W EST MULTIUNIT HORIZONTAL WELL X686256 WDFD 50% 21-7N-7W 50% 28-7N-2W LRR IV OP INC 4/5/2022						







## COPERATOR: LIME ROCK TOPOGRAPHIC Vicinity Map Operator: LIME ROCK RESOURCES

Lease Name and No.: KENT MU16 28-21 4HX Surface Hole Location: 282' FNL - 1650' FEL

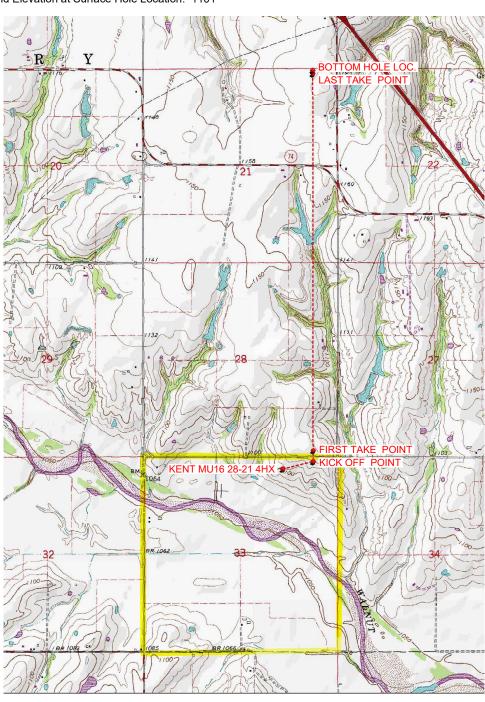
Kick Off Point: 135' FNL - 660' FEL Sec. 33 Twp. 7N Rng. 2W I.M. First Take Point: 165' FSL - 660' FEL Sec. 28 Twp. 7N Rng. 2W I.M. Last Take Point: 165' FNL - 660' FEL Bottom Hole Location: 65' FNL - 660' FEL Sec. 21 Twp. 7N Rng. 2W I.M.

County: McClain State of Oklahoma

Ground Elevation at Surface Hole Location: 1101'



Scale 1" = 2000' Contour Interval: 10'



Provided by:

Arkoma Surveying and Mapping, PLLC

P.O. Box 238 Wilburton, OK 74578 Ph. 918-465-5711 Fax 918-465-5030

Expires June 30, 2022

Date Staked: 04/22/2022

Certificate of Authorization No. 5348

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully 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 inconsistency is determined.

