API NUMBER: 143 24356

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

Approval Date:	02/15/2022	
Expiration Date:	08/15/2023	

Straight Hole Oil & Gas

## **PERMIT TO DRILL**

WELL LOCATION:	Section: 12	Township: 21	IN Range:	12E	County:	TULSA	4							
SPOT LOCATION: NE	SE SE	SE	FEET FROM QUARTER:	FROM	SOUTH	FROM	EAST							
			SECTION LINES:		580		200							
Lease Name: CW	ľU			Well No:	15			Well	will be	200	feet from ne	earest unit	or lease	boundary.
Operator Name: LD	O LLC		Te	elephone:	91857413	320					OTC/0	OCC Num	ber:	24147 0
LDO LLC							MSH PROP	PERTIES LL	.C					
						:	2525 66 ST	REET NOR	TH					
TULSA,		OK 7	4137-3020			.	TULSA				OK	74127		
											<b>.</b>			
Formation(s) (P	ermit Valid for I	isted Forms	ations Only):											
Name	ennii valiu ioi i	Code	• • • • • • • • • • • • • • • • • • • •	Depth		1								
1 CLEVELAND		405CLVE		200										
2 OSWEGO		404OSW		700										
3 BARTLESVILLE		404BRVI	_	1150										
4 TUCKER		404TCKF	₹ .	1330										
5 BURGESS		404BRG	S	1450										
Spacing Orders: No	Spacing		Loca	ion Excep	tion Orders	s: N	lo Except	tions		Inc	reased Densi	ity Orders:	No [	Density
Pending CD Numbers: No Pending Working interest owner			ers' not	s' notified: *** Special Orders: No Special					Special					
Total Depth: 1500 Ground Elevation: 615 Surface Casing: 100			)		Depth to	base o	f Treatable W	/ater-Bearir	ng FM: 4	40				
Under Fede	ral Jurisdiction: No	)				Α	pproved Meth	od for disposa	l of Drillin	ng Fluid	ls:			
Fresh Water Supply Well Drilled: No			Α	A. Evaporation/dewater and backfilling of reserve pit.										
Surface Wat	er used to Drill: No	)												
PIT 1 INFORMAT	ΓΙΟΝ						Ca	tegory of Pit:	4					
Type of Pit System: ON SITE			ı	Liner not required for Category: 4										
Type of Mud System: AIR				Pit Location is: ALLUVIAL										
							Pit Location	n Formation:	ALLUVIU	M				
Is depth to top of ground water greater than 10ft below base of pit? Y				Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).										
Within 1 mile of	f municipal water w	ell? N												
Wel	Ihead Protection Are	ea? N												
Pit <u>is</u> located	d in a Hydrologically	Sensitive Area.												

NOTES:

Category	Description
HYDRAULIC FRACTURING	[2/9/2022 - 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
SPACING	[2/11/2022 - GB1] - FORMATIONS UNSPACED; 200 ACRE LEASE (SE4, E2 E2 SW4)

## WELL LOCATION PLAT COMPANY: LDO, LLC LEASE: CWU \_\_\_\_ WELL NO. \_15 QUARTER: SOUTHEAST SECTION: 12 TOWNSHIP: 21 NORTH RANGE: 12 EAST MERIDIAN: INDIAN COUNTY: TULSA STATE: OKLAHOMA LOCATION: 580 FSL 200 FEL ELEVATION: 615' (NAD 88) LATITUDE: 36°18'32.33" N LONGITUDE: 95°58'27.45" W ACCURACY ±2-3 METERS STAKED: 01/14/22 NW/4 12 -SW/4 200 CWU #15 -580 SURVEY NOTES DISTANCES SHOWN ARE BASED ON THE QUARTER SECTION BEING 2640 FEET. ACTUAL SECTION LINE DISTANCES HAVE NOT BEEN MEASURED. THIS PLAT 01/19/22 DOES NOT REPRESENT A BOUNDARY SURVEY. SIONAL THIS LOCATION HAS BEEN CAREFULLY STAKED, UTILIZING THE BEST AVAILABLE SURVEY RECORDS, MAPS, PHOTOGRAPHS AND EQUIPMENT. HOWEVER, ITS EXACT POSITION IS NOT GUARANTEED. **NAD 83** Riedel CERTIFICATE OF SURVEY 1902 1000 2000 I HEREBY CERTIFY THAT A SURVEY WAS MADE UNDER MY SUPERVISION OF THE ABOVE KLAHON SCALE: 1"=1000" DESCRIBED WELL LOCATION AND THAT THIS PLAT IS A TRUE AND CORRECT REPRESENTATION OF SAID MARK RIEDEL LS#1902 SURVEY.

ALTMAN & OSAGE SURVEYING LLC. 107 N. 4TH ST. STE 213 PONCA CITY, OK 918-287-4029 CA # 7862 LDO, LLC 8929 S. JOPLIN AVE. TULSA, OK 74137 WELL LOCATION IN TULSA COUNTY, OKLAHOMA SURVEYED BY: MJR
DRAWN BY: MJR
CHECKED BY: MJR
LAST ON SITE: 01/14/22
DATE: 01/19/22
JOB NO: 22-002
SHEET 1 OF 1