API NUMBER: 143 24327

Oil & Gas

Straight Hole

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

Approval Date: 09/17/2019
Expiration Date: 03/17/2021

PERMIT TO DRILL

WELL LOCATION: Sec: 12 Twp: 21N Rge: 12 SPOT LOCATION: SE NW SW SE	COUNTY: TULS FEET FROM QUARTER: FROM SECTION LINES:	SOUTH FROM EAST 700 2300	
Lease Name: CHALKY WHITE UNIT Operator LDO LLC	Well No:	8 Telephone: 9185741320	Well will be 700 feet from nearest unit or lease boundar OTC/OCC Number: 24147 0
Name:		тенерноне. 9103741320	OTC/OCC Number. 2414/ 0
LDO LLC 8929 S JOPLIN AVE			PROPERTIES LLC EAST 66TH STREET NORTH
TULSA, OK	74137-3020	TULSA	
Formation(s) (Permit Valid for Listed For	• •	N	Post.
Name	Depth	Name	Depth
1 CLEVELAND 2 BARTLESVILLE	200 1160	6 7	
3 BURGESS	1400	8	
4	1400	9	
5		10	
Spacing Orders: No Spacing	Location Exception		Increased Density Orders:
Pending CD Numbers:			Special Orders:
Total Depth: 1500 Ground Elevation: 6	19 Surface	Casing: 100	Depth to base of Treatable Water-Bearing FM: 40
Under Federal Jurisdiction: No	Fresh Water	Supply Well Drilled: No	Surface Water used to Drill: No
PIT 1 INFORMATION		Approved Method	d for disposal of Drilling Fluids:
Type of Pit System: ON SITE Type of Mud System: AIR		A. Evaporation/de	dewater and backfilling of reserve pit.
Is depth to top of ground water greater than 10ft below be	ase 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: 4			
Liner not required for Category: 4			
Pit Location is ALLUVIAL			
Pit Location Formation: ALLUVIUM			
Mud System Change to Water-Based or Oil-Based Mud	Requires an Amended Intent (F	Form 1000).	

Notes:

Category Description

HYDRAULIC FRACTURING 8/28/2019 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE;

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE "FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK:

OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

SPACING 9/16/2019 - GC3 - FORMATIONS UNSPACED; 200-ACRE LEASE (E2 E2 SW4 & SE4)