API NUMBER: 083 24418

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:	11/15/2017
Expiration Date:	05/15/2018

PERMIT TO DRILL

WELL LOCATION:	Sec: 14 Twp: 16N Rge: 2W	County: LOGAN					
SPOT LOCATION: [OUTH FROM	WEST			
	SECTIO	N LINES: 66	60	660			
Lease Name: LE	EONA	Well No: 1		W	/ell will be 660 feet from nearest	unit or lease boundary.	
Operator Name:	LIBERTY OPERATING INC		Telephone: 4	053296200	OTC/OCC Number:	15227 0	
LIBERTY OPERATING INC 1827 ATCHISON DR NORMAN, OK 73069-8225		0.9225	WILLIAM R. & KAT		& KATHLEEN A. WARNER NGBIRD ROAD		
NORMAN,	OK 7306	9-6223		GUTHRIE	OK 73	044	
1 LA 2 HC 3 CL 4 SK 5 MIS	INTER	Depth 4484 4512 4698 5346 5518			Depth 5530		
Spacing Orders: No Spacing Location Excepti		Location Exception Or	ders:	Increased Density Orders:			
Pending CD Number	rs:				Special Orders:		
Total Depth: 560	0 Ground Elevation: 1095	Surface Ca	nsing: 540		Depth to base of Treatable Water-E	Bearing FM: 490	
Under Federal Ju	risdiction: No	Fresh Water St	upply Well Drilled	: No	Surface Water use	ed to Drill: Yes	
PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:							
	CLOSED Closed System Means Steel Pit	s					
Type of Mud System: WATER BASED			D	D. One time land application (REQUIRES PERMIT) PERMIT NO: 17-33463			
Chlorides Max: 5000 Average: 3000			H	H. CLOSED SYSTEM = STEEL PITS (REQUIRED - COUNTRY CLUB LAKE)			
	ound water greater than 10ft below base of pi	1? Y					
	nicipal water well? N						
Wellhead Protection							
	d in a Hydrologically Sensitive Area.						
Category of Pit:							
Liner not required Pit Location is Bl	tor Category: C ED AQUIFER						
Pit Location Format							
. A LOCATION I OFFICE	O'ILDEIT						

Notes:

Category Description

HYDRAULIC FRACTURING 11/14/2017 - G57 - 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 11/15/2017 - G57 - FORMATIONS UNSPACED; 160-ACRES NE/4 14-16N-2W