PI NUMBER: 087 22151 prizontal Hole Oil & Gas	OIL & GAS CONSE P.O. BO OKLAHOMA CIT	RATION COMMISSION ERVATION DIVISION DX 52000 "Y, OK 73152-2000 55:10-3-1)	Approval Date: Expiration Date:	06/15/2018 12/15/2018		
	PERMIT	TO DRILL				
WELL LOCATION: Sec: 05 Twp: 6N Rge: 4W	County: MCCLAIN					
SPOT LOCATION: NE NW NE NW	SECTION LINES	FROM WEST				
Lease Name: LODI	Well No: 5-5H	1760 We	II will be 260 feet from neare	st unit or lease boundary.		
Operator ECHO E & P LLC		one: 4057534232	OTC/OCC Number:	23925 0		
Name:						
ECHO E & P LLC						
3817 NW EXPRESSWAY STE 840			RILIEGH AND MARY LOU SEABOURN			
OKLAHOMA CITY, OK	73112-1400	11624 220TH \$	STREET	EET		
		BLANCHARD	OK 7	3010		
2 3 4 5		7 8 9 10				
Spacing Orders: 671562	Location Exception Orders:		Increased Density Orders:			
Pending CD Numbers: 201803885			Special Orders:			
Total Depth: 15800 Ground Elevation: 126	5 Surface Casing:	1500	Depth to base of Treatable Wate	r-Bearing FM: 300		
Under Federal Jurisdiction: No	Fresh Water Supply Wel	Fresh Water Supply Well Drilled: No		Surface Water used to Drill: No		
PIT 1 INFORMATION		Approved Method for disposition	al of Drilling Fluids:			
Type of Pit System: CLOSED Closed System Means St	eel Pits					
Type of Mud System: WATER BASED		D. One time land application (REQUIRES PERMIT) PERMIT NO: 18-345				
Chlorides Max: 5000 Average: 3000		H. SEE MEMO				
Is depth to top of ground water greater than 10ft below bas	e 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 BED AQUIFER						

 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
 C

Pit Location is BED AQUIFER Pit Location Formation: DUNCAN

HORIZONTAL HOLE 1

Sec	05	Twp	6N	Rge	4W	C	ounty	MCCLAIN
Spot I	Locatior	of En	d Point	S2	2 S	2	S2	S2
Feet I	From:	SOL	JTH	1/4 Se	ction L	ine:	16	5
Feet I	From:	WE	ST	1/4 Se	ction L	ine:	26	40
Depth of Deviation: 10323								
Radius of Turn: 604								
Direction: 170								
Total Length: 4529								
Measured Total Depth: 15800								
True Vertical Depth: 10900								
End Point Location from Lease,								
Unit, or Property Line: 165								

Notes:	
Category	Description
DEEP SURFACE CASING	6/13/2018 - G58 - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	6/6/2018 - G58 - 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
МЕМО	6/6/2018 - G58 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201803885	6/6/2018 - G58 - 5-6N-4W X671652 WDFD 2 WELLS NO OP. NAMED HEARING 6/5/2018

SPACING - 671652

Description

6/6/2018 - G58 - (640)(HOR) 5-6N-4W VAC OTHER EXT 652240 WDFD, OTHER COMPL. INT. NCT 165' FNL & FSL, NCT 330' FEL & FWL

