PI NUMBER: 087 22150 izontal Hole Oil & Gas	OIL & GAS (F OKLAHOI	ORPORATION COMI CONSERVATION DIV P.O. BOX 52000 MA CITY, OK 73152-2 Rule 165:10-3-1)	ISION	Approval Date: Expiration Date:	06/15/2018 12/15/2018	
	<u>P</u>	ERMIT TO DRILL				
WELL LOCATION: Sec: 05 Twp: 6N Rge: 4	W County: MCCLA	N				
)	ORTH FROM WEST				
	SECTION LINES: 26	60 1730				
Lease Name: LODI	Well No: 4	-5H	Well will be	260 feet from neare	st unit or lease boundary.	
Operator ECHO E & P LLC Name:		Telephone: 4057534232		OTC/OCC Number:	23925 0	
ECHO E & P LLC 3817 NW EXPRESSWAY STE 840			EGH AND MARY L			
OKLAHOMA CITY, OK	73112-1400	1162	24 220TH STREET	EET		
	75112-1400	BLA	NCHARD	OK 7	3010	
2 3 4 5		7 8 9 10				
Spacing Orders: 671562	Location Exception Or	ders: 201803884		reased Density Orders:	201803885	
Pending CD Numbers:			Spe	ecial Orders:		
Total Depth: 15500 Ground Elevation: 1	265 Surface Ca	nsing: 1500	Depth to	base of Treatable Wate	-Bearing FM: 300	
Under Federal Jurisdiction: No	Fresh Water St	upply Well Drilled: No		Surface Water u	sed to Drill: No	
PIT 1 INFORMATION		Approved Meth	nod for disposal of Drilling	Fluids:		
Type of Pit System: CLOSED Closed System Means	Steel Pits		-			
Type of Mud System: WATER BASED		D. One time la	and application (REQUI	RES PERMIT)	PERMIT NO: 18-3457	
Chlorides Max: 5000 Average: 3000		H. SEE MEM				
Is depth to top of ground water greater than 10ft below b	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: 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	С	ounty	MCCLAIN
Spot	Locatior	n of En	d Poin	t: SV	V SE	Ξ	SE	SW
Feet	From:	SOL	JTH	1/4 Sec	ction Li	ne:	16	5
Feet	From:	WE	ST	1/4 Se	ction Li	ne:	20	63
Depth of Deviation: 9954								
Radius of Turn: 647								
Direction: 175								
Total Length: 4530								
Measured Total Depth: 15500								
True Vertical Depth: 10500								
End Point Location from Lease,								
Unit, or Property Line: 165								

Notes:	
Category	Description
DEEP SURFACE CASING	6/13/2018 - G71 - 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	6/5/2018 - 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
МЕМО	6/5/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201803884	6/6/2018 - G58 - (I.O.) 5-6N-4W X671652 MSSP COMPL. INT. NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC 6/11/2018 (MILLER)

PENDING CD - 201803885

SPACING - 671652

Description

6/6/2018 - G58 - 5-6N-4W X671652 MSSP 1 WELL NO OP. NAMED HEARING 6/5/2018 6/6/2018 - G58 - (640)(HOR) 5-6N-4W VAC 175592 MSSLM EXT 652240 MSSP, OTHER COMPL. INT. NCT 660' FB

