PI NUMBER: 087 22162 rizontal Hole Oil & Gas	OIL & GAS C P OKLAHON	ORPORATION COMMISS CONSERVATION DIVISIO 2.0. BOX 52000 1A CITY, OK 73152-2000 Rule 165:10-3-1)			
	PE	ERMIT TO DRILL			
WELL LOCATION: Sec: 31 Twp: 7N Rge:	3W County: MCCLAII	Ν			
SPOT LOCATION: SE SW SE SE		OUTH FROM EAST			
	SECTION LINES: 26	5 985			
Lease Name: KATMANDU	Well No: 2-	31H	Well will be 265 feet from nea	rest unit or lease boundary.	
Operator ECHO E & P LLC Name:		Telephone: 4057534232	OTC/OCC Number	23925 0	
ECHO E & P LLC		THOMAS	A CALVERT		
3817 NW EXPRESSWAY STE 840		18067 SH	1 39		
OKLAHOMA CITY, OK	73112-1400	PURCEL		73080	
Name1MISSISSIPPIAN233455	Depth 9550	Name 6 7 8 9 10	De	pth	
Spacing Orders: 680031	Location Exception Ord	lers:	Increased Density Orders		
Pending CD Numbers: 201804992 201804991			Special Orders:		
Total Depth: 14600 Ground Elevation:	1180 Surface Ca	sing: 1500	Depth to base of Treatable Wa	ater-Bearing FM: 200	
Under Federal Jurisdiction: No	Fresh Water Su	pply Well Drilled: No	Surface Wate	er used to Drill: No	
PIT 1 INFORMATION		Approved Method for	disposal of Drilling Fluids:		
Type of Pit System: CLOSED Closed System Mea Type of Mud System: WATER BASED	ns Steel Pits	D. One time land ap	plication (REQUIRES PERMIT)	PERMIT NO: 18-3492	
Chlorides Max: 5000 Average: 3000		H. SEE MEMO			
Is depth to top of ground water greater than 10ft below	v base of pit? Y				
Within 1 mile of municipal water well? N					
Wellhead Protection Area? N					
Pit is located in a Hydrologically Sensitive Area	a.				
Category of Pit: C					
Liner not required for Category: C					
Pit Location is ALLUVIAL					
Pit Location Formation: ALLUVIUM					

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

Pit Location is ALLUVIAL
Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec	31	Twp	7N	Rge	3W		County	MC	CLAIN
Spot Location of End Point: NW NE NW NE									
Feet I	From:	NOF	RTH	1/4 Sec	ction	Line	e: 16	5	
Feet I	From:	EAS	т	1/4 Se	ction	Line	e: 18	55	
Depth of Deviation: 8650									
Radius of Turn: 498									
Direction: 350									
Total Length: 4267									
Measured Total Depth: 14600									
True Vertical Depth: 9550									
End Point Location from Lease,									
Unit, or Property Line: 165									

Notes:	
Category	Description
DEEP SURFACE CASING	7/17/2018 - 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	7/17/2018 - 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	7/17/2018 - G71 - PITS 1 & 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, PIT 2 - OBM RETURNED TO VENDOR, CUTTINGS PERMITTED PER DISTRICT
PENDING CD - 201804991	7/23/2018 - G58 - 31-7N-3W X680031 MSSP 1 WELL NO OP. NAMED REC 7/9/2018 (NORRIS)

087 22162 KATMANDU 2-31H

PENDING CD - 201804992

SPACING - 680031

Description

7/23/2018 - G58 - (I.O.) 31-7N-3W X680031 MSSP COMPL. INT. NCT 165' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 7/9/2018 (NORRIS) 7/23/2018 - G58 - (640)(HOR) 31-7N-3W VAC OTHERS EXT 651990 MSSP, OTHER COMPL. INT. NLT 660' FB (EXIST CONCURRENTLY WITH NON-HORIZONTAL DRILLING AND SPACING UNITS)

