PI NUMBER: 087 22163 prizontal Hole Oil & Gas	OKLAHOMA CORPC OIL & GAS CONS P.O. B OKLAHOMA CI (Rule 1	Approval Date: Expiration Date:	07/23/2018 01/23/2019				
	PERMI	T TO DRILL					
WELL LOCATION: Sec: 31 Twp: 7N Rge: 3W	County: MCCLAIN	FAST					
SPOT LOCATION: SE SW SE SE	FEET FROM QUARTER: FROM SOUTH SECTION LINES: 265	FROM EAST 945					
Lease Name: KATMANDU	Well No: 4-31H		ell will be 265 feet from neare	est unit or lease boundary.			
Operator ECHO E & P LLC Name:	Telept	none: 4057534232	OTC/OCC Number:	23925 0			
ECHO E & P LLC 3817 NW EXPRESSWAY STE 840		THOMAS A C	ALVERT				
OKLAHOMA CITY, OK	73112-1400	18067 SH 39					
		PURCELL	OK 7	73080			
1 WOODFORD 2 3 4 5	9750	6 7 8 9 10					
Spacing Orders: 680031	Location Exception Orders:		Increased Density Orders:				
Pending CD Numbers: 201802398			Special Orders:				
Total Depth: 15000 Ground Elevation: 118	¹⁰ Surface Casing:	1500	Depth to base of Treatable Wate	er-Bearing FM: 200			
Under Federal Jurisdiction: No	Fresh Water Supply We	Fresh Water Supply Well Drilled: No		Surface Water used to Drill: No			
PIT 1 INFORMATION		Approved Method for dispos	Approved Method for disposal of Drilling Fluids:				
Type of Pit System: CLOSED Closed System Means St Type of Mud System: WATER BASED	eel Pits		D. One time land application (REQUIRES PERMIT) PERMIT NO: 18-				
Chlorides Max: 5000 Average: 3000 Is depth to top of ground water greater than 10ft below bas Within 1 mile of municipal water well? N Wellhead Protection Area? N	e of pit? Y	H. SEE MEMO					
Pit is located in a Hydrologically Sensitive Area. Category of Pit: C							
Liner not required for Category: C							
Pit Location is ALLUVIAL							

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	1	Со	unty	MCCLAIN
Spot I	_ocatior	of En	d Point:	N2	2	NE	١	١E	NE
Feet I	From:	NOF	RTH 1	/4 Sec	ction	Line	e:	165	5
Feet F	From:	EAS	π ·	I/4 Se	ction	Lin	e:	330	C
Depth of Deviation: 9500									
Radius of Turn: 785									
Direction: 5									
Total Length: 4266									
Measured Total Depth: 15000									
True Vertical Depth: 9750									
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 - 201802398	7/23/2018 - G58 - 31-7N-3W X680031 WDFD 5 WELLS NO OP. NAMED REC 6/6/2018 (M. PORTER)

087 22163 KATMANDU 4-31H

SPACING - 680031

Description

7/23/2018 - G58 - (640)(HOR) 31-7N-3W VAC OTHERS EXT 651990 WDFD, OTHER COMPL. INT. NLT 165' FNL & FSL, NLT 330' FEL & FWL (EXIST CONCURRENTLY WITH NON-HORIZONTAL DRILLING AND SPACING UNITS)

