	OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000			Approval Date:	06/22/2018	
1 NUMBER: 063 24815	OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)		Expiration Date	: 12/22/2018		
zontal Hole Oil & Gas	(r	(ule 105.10-5-1	)			
	<u>P</u>	ERMIT TO DRII	<u>_L</u>			
VELL LOCATION: Sec: 18 Twp: 9N Rge:	10E County: HUGHE	5				
SPOT LOCATION: SW SW NW NW			EST			
	SECTION LINES	78 18				
				luill he doo feet from noo		
Lease Name: THUNDER	Well NO: 1-	18-6CH	wei	I will be 182 feet from nea	rest unit or lease boundary.	
Operator CALYX ENERGY III LLC Name:		Telephone: 91894	194224	OTC/OCC Number:	23515 0	
		1				
CALYX ENERGY III LLC						
6120 S YALE AVE STE 1480			EDWARD V. W	D V. WILLIAMS & LORI M. WILLIAMS		
	74136-4226 2151 N. 3		2151 N. 377 RI	7 RD.		
TULSA, OK	74130-4220		WETUMKA	OK	74883	
		1				
Name1MISSISSIPPIAN2WOODFORD3455	<b>Depth</b> 3600 3875	6 7 8 9 10	Name	De	oth	
Spacing Orders: 678869 678867	Location Exception Ore	ders:		Increased Density Orders		
Pending CD Numbers: 201802870				Special Orders:		
201802884						
201802869						
Total Depth: 14800 Ground Elevation	853 Surface Ca	sing: 1500		Depth to base of Treatable Wa	ter-Bearing FM: 140	
Under Federal Jurisdiction: No	Fresh Water Su	pply Well Drilled: 1	10	Surface Wate	r used to Drill: Yes	
PIT 1 INFORMATION		Approv	ved Method for disposa	al of Drilling Fluids:		
Type of Pit System: ON SITE	A. Ev	A. Evaporation/dewater and backfilling of reserve pit.				
Type of Mud System: AIR						
Is depth to top of ground water greater than 10ft below	w base of pit? Y	H. SE	E MEMO			
	F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No:					
Within 1 mile of municipal water well? N				<b>U U U U</b>		
		5516	49			
Within 1 mile of municipal water well? N	a.		49			
Within 1 mile of municipal water well? N Wellhead Protection Area? N	a.		49			
Within 1 mile of municipal water well?       N         Wellhead Protection Area?       N         Pit       is       located in a Hydrologically Sensitive Area	a.		49			
Within 1 mile of municipal water well?       N         Wellhead Protection Area?       N         Pit       is       located in a Hydrologically Sensitive Are         Category of Pit:       4	a.		49			

 PIT 2 INFORMATION

 Type of Pit System:
 CLOSED Closed System Means Steel Pits

 Type of Mud System:
 WATER BASED

 Chlorides Max: 8000 Average: 5000
 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 BED AQUIFER Pit Location Formation: WEWOKA

## HORIZONTAL HOLE 1

HUGHES Sec 06 Twp 9N Rge 10E County Spot Location of End Point: NE NW NW NW Feet From: NORTH 1/4 Section Line: 165 Feet From: WEST 1/4 Section Line: 600 Depth of Deviation: 3023 Radius of Turn: 382 Direction: 5 Total Length: 11177 Measured Total Depth: 14800 True Vertical Depth: 3900 End Point Location from Lease, Unit, or Property Line: 165

Notes:	
Category	Description
DEEP SURFACE CASING	5/31/2018 - 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	5/31/2018 - 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	6/1/2018 - G57 - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC

Category	Description
PENDING CD - 201802869	6/8/2018 - G57 - (I.O.) 6, 7, 18 & 19-9N-10E EST MULTIUNIT HORIZONTAL WELL X678869 MSSP, WDFD 6 & 7-9N-10E X678867 MSSP, WDFD, 18 & 19-9N-10E (WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO THE MSSP) 25% 18 & 19-9N-10E 75% 6 & 7-9N-10E CALYX ENERGY III, LLC. REC 5-7-2018 (DUNN)
PENDING CD - 201802870	6/8/2018 - G57 - (E.O.) 6, 7, 18, 19-9N-10E X678869 MSSP, WDFD 6 & 7-9N-10E X678867 MSSP, WDFD, 18 & 19-9N-10E COMPL. INT. (18 & 19-9N-10E) NFT 1320' FNL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (6 & 7-9N-10E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 6-19-2018 (JOHNSON)
PENDING CD - 201802884	6/22/2018 - G57 - 18 & 19-9N-10E X678867 MSSP 1 WELL NO OP. NAMED REC 5-7-2018 (DUNN)
SPACING - 678867	5/31/2018 - G57 - (1280)(HOR) 18 & 19-9N-10E EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 678869	5/31/2018 - G57 - (1280)(HOR) 6 & 7-9N-10E EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

