PI NUMBER:	091 21801	OIL & GA	A CORPORATION COM S CONSERVATION DIV P.O. BOX 52000	VISION	Approval Date: 06/13/2018	
rizontal Hole	Oil & Gas	OKLAHOMA CITY, OK 73152-200 (Rule 165:10-3-1)		2000	0 Expiration Date: 12/13/2018	
			PERMIT TO DRILL			
WELL LOCATION:	Sec: 17 Twp: 8N	Rge: 13E County: MCII	NTOSH			
SPOT LOCATION:	·	NW FEET FROM QUARTER: FROM	NORTH FROM WEST			
		SECTION LINES:	320 324			
Lease Name:	OSCAR LU	Well No:	1-18-19MWH	Well will be	320 feet from nearest unit or lease boundary	
Operator Name:	CALYX ENERGY III LLC		Telephone: 9189494224		OTC/OCC Number: 23515 0	
	NERGY III LLC					
	ALE AVE STE 1480		MIE	DDLE CREEK, LLC	D.	
	ALL AVE STE 1400	01/ 7//00 /000	279	98 N. 394		
TULSA,		OK 74136-4226	DU	STIN	OK 74839	
2 3 4	CANEY MAYES WOODFORD HUNTON SYLVAN 672567 674734	4500 4675 4775 4840 4840 Location Exceptior	6 7 8 9 10	1	Increased Density Orders:	
Pending CD Num				— - s	Special Orders:	
Total Depth: 1	4725 Ground Ele	evation: 754 Surface	Casing: 1500	Depth	h to base of Treatable Water-Bearing FM: 220	
Under Federal	Jurisdiction: No	Fresh Wate	er Supply Well Drilled: No		Surface Water used to Drill: Yes	
PIT 1 INFORMA	TION		Approved Me	thod for disposal of Drilli	ing Fluids:	
Type of Pit Syste Type of Mud Sys				ion/dewater and backfillir tion of pit contents.	ng of reserve pit.	
	ground water greater than 10 nunicipal water well? N	Ift below base of pit? Y	F. Haul to C 551649	F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649		
Wellhead Protection Area? N			H. SEE MEM	H. SEE MEMO		
	ted in a Hydrologically Sensit	ive Area.				
Category of Pit:						
Pit Location is	ed for Category: 4					
Pit Location is Pit Location Forn						
		ased Mud Requires an Amended Intent (	-			

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run. 

 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
 C

 Pit Location is
 BED AQUIFER

 Pit Location Formation:
 SENORA

## HORIZONTAL HOLE 1

MCINTOSH Sec 19 Twp 8N Rge 13E County Spot Location of End Point: S2 SE SE SE Feet From: SOUTH 1/4 Section Line: 165 Feet From: EAST 1/4 Section Line: 330 Depth of Deviation: 3729 Radius of Turn: 382 Direction: 185 Total Length: 10395 Measured Total Depth: 14725 True Vertical Depth: 5022 End Point Location from Lease, Unit, or Property Line: 165

Notes:			
Category	Description		
DEEP SURFACE CASING	6/6/2018 - 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	6/6/2018 - 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	6/6/2018 - G71 - 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 - 201802976	6/7/2018 - G57 - (I.O.) 18 & 19-8N-13E EST MULTIUNIT HORIZONTAL WELL X672567 CNEY, MYES, WDFD X674734 CNEY, MYES, WDFD, HNTN, SLVN (CNEY, WDFD ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE MYES 18-8N-13E) (CNEY, HNTN, SLVN ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE MYES & WDFD 19-8N-13E) 50% 18-8N-13E 50% 19-8N-13E NO OP. NAMED REC 5-18-2018 (DUNN)
PENDING CD - 201802977	6/7/2018 - G57 - (I.O.) 18 & 19-8N-13E X672567 CNEY, MYES, WDFD 18-8N-13E X674734 CNEY, MYES, WDFD, HNTN, SLVN 19-8N-13E MYES COMPL. INT. (18-8N-13E) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL MYES COMPL. INT. (19-8N-13E) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL WDFD COMPL. INT. (19-8N-13E) NCT 165' FNL, NCT 165' FSL, NCT 330' FEL NO OP. NAMED REC 5-18-2018 (DUNN)
SPACING - 672567	6/7/2018 - G57 - (640)(HOR) 18-8N-13E EST CNEY, MYES, WDFD POE TO BHL (MYES) NLT 660' FB POE TO BHL (CNEY) NLT 330' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 674734	6/7/2018 - G57 - (640)(HOR) 19-8N-13E EST CNEY, MYES, WDFD, HNTN, SLVN POE TO BHL (MYES, HNTN) NLT 660' FB POE TO BHL (CNEY, SLVN) NLT 330' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL (COEXIST WITH SP. ORDER #515955 CNEY, WDFD, HNTN)



