API NUMBER: 091 21803 A Horizontal Hole Oil & Gas	OIL & GAS	CORPORATION COMMISS CONSERVATION DIVISIO P.O. BOX 52000 DMA CITY, OK 73152-2000 (Rule 165:10-3-1)	Approval Date: 06/13/2018
mend reason: CHANGE SURFACE HOLE FOOTAGE	as <u>Ame</u>	END PERMIT TO DRILL	
	Rge: 13E County: MCIN		
SPOT LOCATION: NW NW	NW FEET FROM QUARTER: FROM SECTION LINES:	NORTH FROM WEST	
	SECTION LINES:	290 324	
Lease Name: OSCAR LU	Well No:	1-8-5WMH	Well will be 290 feet from nearest unit or lease boundary.
Operator CALYX ENERGY III LLC Name:		Telephone: 9189494224	OTC/OCC Number: 23515 0
CALYX ENERGY III LLC 6120 S YALE AVE STE 1480		MIDDLE	CREEK, LLC.
	01/ 74400 4000	2798 N.	394
TULSA,	OK 74136-4226	DUSTIN	OK 74839
Name           1         CANEY           2         MAYES           3         WOODFORD           4         HUNTON           5         SYLVAN           Spacing Orders:         672567           677022         676054           524669         524669	Depth 4500 4750 4850 4900 4900 Location Exception	Name 6 7 8 9 10 Orders:	Depth Increased Density Orders: Special Orders:
201802974			
Total Depth: 15145 Ground Eleva	ation: 755 Surface (	Casing: 1500	Depth to base of Treatable Water-Bearing FM: 220
Under Federal Jurisdiction: No	Fresh Water	Supply Well Drilled: No	Surface Water used to Drill: Yes
PIT 1 INFORMATION		Approved Method fo	or disposal of Drilling Fluids:
Type of Pit System: ON SITE		A. Evaporation/dew	water and backfilling of reserve pit.
Type of Mud System: AIR		B. Solidification of p	pit contents.
Is depth to top of ground water greater than 10ft Within 1 mile of municipal water well? N Wellhead Protection Area? N	below base of pit? Y	F. Haul to Commer 551649 H. SEE MEMO	rcial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No:
Pit <b>is</b> located in a Hydrologically Sensitive	Area.		
Category of Pit: 4			
Liner not required for Category: 4			
Pit Location is BED AQUIFER			
Pit Location Formation: SENORA			

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

Pit Location is BED AQUIFER Pit Location Formation: SENORA

## HORIZONTAL HOLE 1

Sec 05	Twp	8N	Rge	13E	County	MCINTOSH
Spot Location	n of En	d Point	: N2	2 NV	V NW	NW
Feet From:	NOF	RTH	1/4 Sec	ction Lin	ne: 16	65
Feet From:	WE:	ST	1/4 Seo	ction Lir	ne: 3	30
Depth of Deviation: 4318						
Radius of Turn: 382						
Direction: 1						
Total Length: 10226						
Measured Total Depth: 15145						
True Vertical Depth: 5236						
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
MEMO	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 - 201802974	9/17/2018 - G57 - (I.O.) 5 & 8-8N-13E EST MULTIUNIT HORIZONTAL WELL X524669 CNEY, WDFD 5-8N-13E X676054 MYES 5-8N-13E X672567 CNEY, MYES, WDFD, HNTN 8-8N-13E X677022 SLVN 8-8N-13E (CNEY, WDFD ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE MYES 5-8N-13E) (CNEY, HNTN, SLVN ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE MYES, WDFD 8- 8N-13E) 50% 8-8N-13E 50% 5-8N-13E NO OP. NAMED REC 5-18-2018 (DUNN)
PENDING CD - 201802975	9/17/2018 - G57 - (I.O.) 5 & 8-8N-13E X524669 CNEY, WDFD 5-8N-13E X676054 MYES 5-8N-13E X672567 CNEY, MYES, WDFD, HNTN 8-8N-13E X677022 SLVN 8-8N-13E WDFD COMPL. INT. (8-8N-13E) NCT 165' FNL, NCT 165' FSL, NCT 330' FWL MYES COMPL. INT. (8-8N-13E) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL MYES COMPL. INT (5-8N-13E) NCT 165' FSL, NCT 0' FNL, NCT 330' FWL MYES COMPL. INT (5-8N-13E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL NO OP. NAMED REC 6-11-2018 (DUNN)
SPACING - 524669	9/17/2018 - G57 - (640) 5-8N-13E VAC OTHER EXT OTHERS EXT 490484 CNEY, WDFD EST OTHERS
SPACING - 672567	9/17/2018 - G57 - (640)(HOR) 8-18N-13E EST CNEY, MYES, WDFD, HNTN POE TO BHL (MYES, HNTN) NLT 660' FB POE TO BHL (CNEY) NLT 330' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 676054	9/17/2018 - G57 - (640)(HOR) 5-8N-13E EXT 672567 MYES EXT 671566 OTHER POE TO BHL (MYES) NLT 660' FB
SPACING - 677022	9/17/2018 - G57 - (640)(HOR) 8-8N-13E EXT 671803 SLVN POE TO BHL NLT 330' FB
SPACING - 677022	6/7/2018 - G57 - (640)(HOR) 6 & 7-8N-13E EXT 671803 SLVN POE TO BHL NLT 330' FB

