API NUMBER: 063 24932

OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION P.O. BOX 52000 OKLAHOMA CITY, OK 73152-2000 (Rule 165:10-3-1)

Approval Date: 06/30/2021 Expiration Date: 12/30/2022

Multi Unit Oil & Gas

Pit

located in a Hydrologically Sensitive Area.

## **PERMIT TO DRILL**

						IZIVIII		DIXILL							
WELL LOCATION:	Section:	29 Tow	nship: 8N	I Ran	ge: 12E	County:	HUGH	ES							
SPOT LOCATION:	SW	NE	NW	FEET FROM QUART	TER: FROM	NORTH	FROM	WEST							
				SECTION LIN	IES:	1059		1511							
Lease Name:	ARIEL				Well No	: 2-20-17V	VH		Well v	vill be 1	1059 f	eet from	nearest uni	t or leas	e boundary.
Operator Name:	CALYX ENERG	Y III LLC			Telephone	: 9189494	224					ОТС	OCC Num	nber:	23515 0
CALYX ENER	RGY III LLC						]	DONNIE FREEM	ЛAN						
6120 S YALE AVE STE 1480					;	3236 ASH, BOX	14								
TULSA,		C	OK 74	4136-4226			$\  \cdot \ _{1}$	LAMAR				ОК	74850		
													7 1000		
Formation(s)	(Permit Valid	d for Lister	l Forma	tions Only)											
Name	(Femili valid	I IOI LISIEC	Code	itions Only)			1								
1 MAYES			353MYES	2	Depth 4440										
2 WOODFORI	D		319WDF		4540										
3 HUNTON	_		269HNTN		4590										
4 SYLVAN			203SLVN		4591										
Spacing Orders:	671026			Lo	cation Exce	ption Order	s: 7	15552			Incre	ased Der	sity Orders:	7155	 55
	673551					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							,	7155	
	703547														
	715551														
Pending CD Number	ers: No Pending	ı	_		Working in	iterest owne	ers' not	iified: ***				Spe	cial Orders:	No Sp	ecial Orders
Total Depth: 1	5500	Ground Elevat	ion: 848		Surface	Casing:	500			Depth to I	base of	Treatable	Water-Beari	ng FM:	130
											Dee	ep surfa	ace casin	g has l	oeen approved
Under	Federal Jurisdiction	n: No					Α	pproved Method for	disposal	of Drilling	g Fluids	:			
Fresh Water	r Supply Well Drille	ed: No					Α	. Evaporation/dewater	r and back	filling of re	eserve p	it.			
Surface	e Water used to Dr	ill: Yes					В	S. Solidification of pit co	ontents.						
							[	. One time land applic	cation (R	EQUIRES	S PERM	IT)	PER	MIT NO	: 21-37683
							F	I. (Other)			IT 2 - CC EQUEST		LINED PIT	PER OP	ERATOR
PIT 1 INFOR	MATION							Category	of Pit: 4	1					
	Pit System: ON S	SITE					ı	Liner not required for	r Category	y: 4					
Type of M	ud System: AIR							Pit Locat	tion is: E	BED AQU	IFER				
								Pit Location Form	nation: S	SENORA					
Is depth to	top of ground water	er greater tha	n 10ft belo	w base of pit?	Υ			Mud System Change t 1000).	to Water-B	sased or C	Oil-Based	d Mud Re	quires an Am	nended I	ntent (Form
Within 1 r	mile of municipal w	ater well? N													
	Wellhead Protect	tion Area? N	ı												

**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 <u>is</u> 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

**MULTI UNIT HOLE 1** 

Section: 17 Township: 8N Range: 12E Meridian: IM Total Length: 10230

County: HUGHES Measured Total Depth: 15500

Spot Location of End Point: NE NE NE NW True Vertical Depth: 4900

Feet From: NORTH

1/4 Section Line: 165
End Point Location from
Lease, Unit, or Property Line: 165

NOTES:

NOTES:	
Category	Description
DEEP SURFACE CASING	[6/29/2021 - GC2] - 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	[6/29/2021 - GC2] - OCC 165:10-3-10 REQUIRES:
	1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN;
	2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND,
	3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INCREASED DENSITY - 715555	[6/30/2021 - G56] - 17-8N-12E X671026 WDFD 2 WELLS CALYX ENERGY III, LLC 11/25/2020
INCREASED DENSITY - 715556	[6/30/2021 - G56] - 20-8N-12E X703547 WDFD 2 WELLS CALYX ENERGY III, LLC 11/25/2020
LOCATION EXCEPTION - 715552	[6/30/2021 - G56] - (I.O.) 17 & 20-8N-12E X671026 MYES, WDFD, HNTN 17-8N-12E X673551 SLVN 17-8N-12E X703547 MYES, WDFD, HNTN, SLVN 20-8N-12E COMPL INT (17-8N-12E) NCT 165' FNL, NCT 0' FSL, NCT 990' FWL COMPL INT (20-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 990' FWL CALYX ENERGY III, LLC 11/25/2020
SPACING - 671026	[6/30/2021 - G56] - (640)(HOR) 17 & 18-8N-12E EST MYES, WDFD, HNTN, OTHER COMPL INT (MYES, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP # 297893 HNTN)
SPACING - 673551	[6/30/2021 - G56] - (640)(HOR) 17 & 18-8N-12E EST SLVN COMPL INT NLT 330' FB

SPACING - 703547	[6/30/2021 - G56] - (640)(HOR) 20-8N-12E EXT 671215 MYES, WDFD, HNTN, SLVN, OTHER COMPL INT (MYES, HNTN) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL COMPL INT (SLVN) NCT 330' FB (COEXIST WITH SP # 289836 HNTN, # 303010 HNTN)
SPACING - 715551	[6/30/2021 - G56] - (I.O.) 17 & 20-8N-12E EST MULTIUNIT HORIZONTAL WELL X671026 MYES, WDFD, HNTN 17-8N-12E X673551 SLVN 17-8N-12E X703547 MYES, WDFD, HNTN, SLVN 20-8N-12E (MYES, HNTN, SLVN ARE ADJACENT CSS TO WDFD) 50% 17-8N-12E 50% 20-8N-12E CALYX ENERGY III, LLC 11/25/2020

