API NUMBER: 121 24916

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

Approval Date: 09/30/2022

Expiration Date: 03/30/2024

Multi Unit Oil & Gas

## **PERMIT TO DRILL**

POT LOCATION   SE   SE   SE   SE   SE   SE   SE   PRETINENT AND SOUTH   FROM   EAST   240   76	WELL LOCATION:	Section: 07	Fownship: 7N	Range: 13E C	County: PIT	TSBURG	]		
Section   Sect	SPOT LOCATION:	SE SE SE	SE FEET FR	DM QUARTER: FROM	SOUTH F	FROM FAST	-		
Lease Name: NICKLAUS Well Not 14-9WH Well will be 76 feet from nearest unit or lease boundary.  Operator Name: CALYX ENERGY III LLC  CALYX ENERGY III LLC  TULSA, OK 74136-4226  DOK 74136-4226  DOK 74136-4226  DOK 74136-4226  DOK 74501  DOK 74			J L						
CALYX ENERGY III LLC			-	-					
CALYX ENERGY III LLC  TULSA, OK 74136-4226  LOGAN SANDERS 230 WOLFHUNTERS LANE MCALESTER OK 74501  Formation(s) (Permit Valid for Listed Formations Only):    Name	Lease Name:	NICKLAUS		Well No: 1	1-8-5WH	Well	will be 76	feet from nearest unit or lease boundary.	
TULSA, OK 74136-1226    Contraction   Contra	Operator Name:	CALYX ENERGY III LLC		Telephone: 9	9189494224	1		OTC/OCC Number: 23515 0	
Formation(s) (Permit Valid for Listed Formations Only):    Name	CALYX ENERGY III LLC LOGAN SANDERS								
Formation(s) (Permit Valid for Listed Formations Only):    Name						230 WOLFHUNTERS L	ANE		
Formation(s) (Permit Valid for Listed Formations Only):    Name	TULSA,		OK 74136-	4226		MCALESTER		OK 74501	
Name									
Name									
Name	Formation(a)	(Parmit Valid for Lie	tad Farmations	Only):					
1 MAYES 359MYES 4725 2 WOODFORD 319WDFD 4859 3 HUNTON 269MHTN 4925 4 SYLVAN 203SLVN 4989  Spacing Orders: 724863 725610  Pending CD Numbers: 2022/3626  Total Depth: 15500 Ground Elevation: 707 Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 289  Under Foderal Jurisdiction: No Fresh Water Supply Well Drilled: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes  Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 289  Deep surface casing has been approved Approved Method for disposal of Drilling Fluids: A Evaporation/devater and backfilling of reserve pit. B. Solidification of pit comments. D. One time land application – (REQUIRES PERMIT) PERMIT NO: 22-38598 H. (Other) PT 2 CONCRETE LINED PTT PER OPERATOR REQUEST  Type of Mud System: ON SITE Type of Mud System: ON SITE Type of Mud System: ON SITE Type of ground water greater than 10th below base of pit? Y Witthin 1 mile of municipal water well? N Wellhand Protection Area? N  Pit Is not located in a Hydrologically Sensative Area.  PIT 2 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of the System: CLOSED Closed System Means Steel Pits Type of Mud System: SLOSED Closed System Means Steel Pits Type of Mud System: SLOSED Closed System Means Steel Pits Type of Grand System: NATER BASED Chlorides Max: 8000 Average: 5000 Le depth to top of ground water greater than 10th below base of pit? Y Witthin 1 mile of municipal water well? N Wellhead Protection Area? N Wellhead Protection Area? N		(Permit Valid for Lis							
2 WOODFORD 319WDFD 4850 3 HUNTON 259HNTN 4925 4 SYLVAN 2033LVN 4950  Specing Orders: 723579 723579 723579 723579 723579 723579 723510  Pending CD Numbers: 202203826 Working interest owners' notified: "" Special Orders: No Special  Total Depth: 15500 Ground Elevation: 707 Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 260  Deep surface casing has been approved.  A Exportation/dewater and backfilling of reserve pit. B. Sulface Water used to Dritt: Yes  B. Sulface Water used to Dritt: Yes  PT 1 INFORMATION Type of Pit System: ON SITE Type of Mud System: CN SITE Type of Mud System: AIR  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 1 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Within 1 mile of municipal water wall? N Wellhead Protection Area? N									
3 HUNTON 289HTN 4825 4 SYLVAN 203SLVN 4950  Specing Orders: 724863 723579 725610  Pending CD Numbers: 202203826  Working interest owners' notified: "" Special Orders: No Density  Pending CD Numbers: 202203826  Working interest owners' notified: "" Special Orders: No Special Orde		D							
Spacing Orders: 724863 T23579 T23579 T25610  Pending CD Numbers: 202203626 Working interest owners' notified: "** Special Orders: No Special  Total Depth: 15500 Ground Elevation: 707 Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 260  Deep surface casing has been approved  Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes  PIT 1 INFORMATION Type of PR system: On SITE Type of Mud System: AIR  Pit Location Formation: STUART  Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).  PIT 1 INFORMATION Under Federal Jurisdiction: No Fresh Water used to Drill: Yes  PIT 2 InfoRMATION Type of PR system: On SITE Type of Mud System: AIR  Category of Pit: 4 Liner not required for Category: 4 Pit Location Formation: STUART  Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).  PIT 1 INFORMATION Type of PR System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of Mud System: CLOSED Closed System Means Steel Pits Type of Mud System: Storm Amended Intent (Form 1000).  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		D							
Pending CD Numbers: 202203826 Working interest owners' notified: "" Special Orders: No Special  Total Depth: 15500 Ground Elevation: 707 Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 200  Deep surface casing has been approved    Deep surface casing has been approved									
Panding CD Numbers: 202203626	Spacing Orders:	724863		Location Exception	on Orders	725543	Ir	acreased Density Orders: No Density	
Pending CD Numbers: 202203626  Total Depth: 15500 Ground Elevation: 707 Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 260  Deep surface casing has been approved    Deep surface casing has been approved		723579		Zoodion Zhoopiid	J. 1 0 1 4 0 1 0 1	. 200 10		- Ito Bolloky	
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Total Depth: 15500 Ground Elevation: 707 Surface Casing: 950 Depth to base of Treatable Water-Bearing FM: 280    Deep surface casing has been approved	Pending CD Number	ers: 202203626		Working intere	est owners'	notified: ***		Special Orders: No Special	
Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes  PIT 1 INFORMATION Type of Pit System: ON SITE Type of Mud System: AIR  Is depth to top of ground water greater than 10ft below base of pit? Y  Wifthin 1 mile of municipal water well? N Wellhead Protection Area? N  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  Wifthin 1 mile of municipal water well? N Wellhead Protection Area? N	-								
Under Federal Jurisdiction: No Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes  PIT 1 INFORMATION Type of Pit System: ON SITE Type of Mud System: AIR  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 2 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: AIRED Type of Pit System: CLOSED Closed System Means Steel Pits Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: NATER BASED  Within 1 mile of municipal water well? N  Wellhead Protection Area? N	Total Depth: 1	5500 Ground Ele	evation: 707	Surrace Ca	asing: 9	50			
Fresh Water Supply Well Drilled: No Surface Water used to Drill: Yes  A Evaporation/dewater and backfilling of reserve pit. B. Solidification of pit contents. D. One time land application (REQUIRES PERMIT) PERMIT NO: 22-38596 H. (Other) PIT 2 - CONCRETE LINED PIT PER OPERATOR REQUEST  PIT 1 INFORMATION Type of Pit System: ON SITE Type of Mud System: AIR  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 2 INFORMATION Type of Pit System: CLOSED Closed System Means Steel Pits Type of Mud System: WATER BASED Fit Location is: NON HSA Pit Location is: NON HSA Stream Category of Pit: C Liner not required for Category: C Liner not required for Category: C Liner not required for Category: C Pit Location is: NON HSA Pit Location is: NON HSA Pit Location is: STUART  Wellhead Protection Area? N Wellhead Protection Area? N Wellhead Protection Area? N								Deep surface casing has been approved	
Surface Water used to Drill: Yes    B. Solidification of pit contents.	Under Federal Jurisdiction: No					Approved Method for disposal of Drilling Fluids:			
PIT 1 INFORMATION  Category of Pit: 4  Liner not required for Category: 4  Pit Location is: NON HSA  Pit Location Formation: STUART  Wellhead Protection Area? N  Pit 1 INFORMATION  Category of Pit: 4  Liner not required for Category: 4  Pit Location is: NON HSA  Pit Location is: NON HSA  Pit Location Formation: STUART  Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).  Category of Pit: 4  Liner not required for Category: 4  Pit Location Formation: STUART  Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).  Category of Pit: C  Liner not required for Category: C  Liner not required for Category: C  Pit Location Formation: STUART  Category of Pit: C  Liner not required for Category: C  Pit Location is: NON HSA  Pit Location is: NON HSA  Pit Location is: NON HSA  Pit Location is: STUART  Within 1 mile of municipal water well? N  Wellhead Protection Area? N						A. Evaporation/dewater and backfilling of reserve pit.			
H. (Other)  PIT 2 - CONCRETE LINED PIT PER OPERATOR REQUEST  PIT 1 INFORMATION  Type of Pit System: ON SITE  Type of Mud System: AIR  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 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  Wellhead Protection Area? N  Wellhead Protection Area? N  Wellhead Protection Area? N	Surface	e Water used to Drill: Yes							
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Type of Mud System: AIR  Pit Location is: NON HSA Pit Location Formation: STUART  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 not located in a Hydrologically Sensitive Area.  PIT 2 INFORMATION Type of Mud 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  Wellhead Protection Area? N	PIT 1 INFORMATION					Category of Pit: 4			
Pit Location Formation: STUART  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 not located in a Hydrologically Sensitive Area.  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	Type of I	Pit System: ON SITE				Liner not required for Category: 4			
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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									
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Type of Mud System: WATER BASED  Pit Location is: NON HSA  Chlorides Max: 8000 Average: 5000  Pit Location Formation: STUART  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									
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MULTI UNIT HOLE 1

Section: 5 Township: 7N Range: 13E Meridian: IM Total Length: 8372

County: PITTSBURG Measured Total Depth: 15500

Spot Location of End Point: SE SW NW NW True Vertical Depth: 6000

Feet From: NORTH 1/4 Section Line: 1300 End Point Location from

Feet From: WEST 1/4 Section Line: 600 End Point Location from Lease, Unit, or Property Line: 600

NOTES:						
Category	Description					
DEEP SURFACE CASING	[9/29/2022 - 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	[9/29/2022 - 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					
LOCATION EXCEPTION - 725543	[9/30/2022 - G56] - (I.O.) 5 & 8-7N-13E X724863 MYES, WDFD, HNTN, SLVN 5-7N-13E X723579 MYES, WDFD, HNTN, SLVN 8-7N-13E COMPL INT (8-7N-13E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL COMPL INT (5-7N-13E) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL CALYX ENERGY III, LLC 5/16/2022					
PENDING CD - 202203626	[9/30/2022 - G56] - 5-7N-13E X724863 WDFD 4 WELLS NO OP NAMED REC 9/26/2022 (BEESE)					
SPACING - 723579	[9/30/2022 - G56] - (640)(HOR) 8-7N-13E EXT 598520 MYES, WDFD, HNTN, SLVN, OTHER COMPL INT (MYES, HNTN) NLT 660' FB COMPL INT (SLVN) NLT 330' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL					
SPACING - 724863	[9/30/2022 - G56] - (640)(HOR) 5-7N-13E EXT 714384 MYES, WDFD, HNTN, SLVN, OTHER COMPL INT (MYES, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL COMPL INT (SLVN) NLT 330' FB					
SPACING - 725610	[9/30/2022 - G56] - (I.O.) 5 & 8-7N-13E EST MULTIUNIT HORIZONTAL WELL X724863 MYES, WDFD, HNTN, SLVN 5-7N-13E X723579 MYES, WDFD, HNTN, SLVN 8-7N-13E (MYES, HNTN, SLVN ARE ADJACENT CSS TO WDFD) 50% 8-7N-13E 50% 5-7N-13E CALYX ENERGY III, LLC 5/18/2022					