

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

API NUMBER: 063 24939

Approval Date: 11/24/2021

Expiration Date: 05/24/2023

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 28 Township: 8N Range: 12E County: HUGHES

SPOT LOCATION: NW NW NW NE FEET FROM QUARTER: FROM NORTH FROM EAST
SECTION LINES: 258 2346

Lease Name: JASMINE Well No: 3-28-33WH Well will be 258 feet from nearest unit or lease boundary.

Operator Name: CALYX ENERGY III LLC Telephone: 9189494224 OTC/OCC Number: 23515 0

CALYX ENERGY III LLC
6120 S YALE AVE STE 1480
TULSA, OK 74136-4226

THE CHARLES AND MARLENE GANN REVOCABLE TRUST
3220 WALNUT ST
LAMAR OK 74850

Formation(s) (Permit Valid for Listed Formations Only):

Name	Code	Depth
1 MAYES	353MYES	4660
2 WOODFORD	319WDFD	4760
3 HUNTON	269HNTN	4810
4 SYLVAN	203SLVN	4810

Spacing Orders: 681858 Location Exception Orders: 719038 Increased Density Orders: 719040
699143 712413 712414
540730 719039
712412 712415

Pending CD Numbers: **No Pending**

Working interest owners' notified: ***

Special Orders: **No Special**

Total Depth: 15500 Ground Elevation: 913

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 150

Deep surface casing has been approved

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

Approved Method for disposal of Drilling Fluids:	
A. Evaporation/dewater and backfilling of reserve pit.	
B. Solidification of pit contents.	
D. One time land application -- (REQUIRES PERMIT)	PERMIT NO: 21-37989
H. (Other)	SEE MEMO

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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 1 INFORMATION		Category of Pit: 4
Type of Pit System: ON SITE	Liner not required for Category: 4	
Type of Mud System: AIR	Pit Location is: BED AQUIFER	
	Pit Location Formation: SENORA	
Is depth to top of ground water greater than 10ft below base of pit? Y	Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).	
Within 1 mile of municipal water well? N		
Wellhead Protection Area? N		
Pit <u>is</u> located in a Hydrologically Sensitive Area.		

PIT 2 INFORMATION		Category of Pit: C
Type of Pit System: CLOSED Closed System Means Steel Pits	Liner not required for Category: C	
Type of Mud System: WATER BASED	Pit Location is: BED AQUIFER	
Chlorides Max: 8000 Average: 5000	Pit Location Formation: SENORA	
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.		

MULTI UNIT HOLE 1			
Section: 33	Township: 8N	Range: 12E	Meridian: IM
County: HUGHES			Total Length: 10230
Spot Location of End Point: SE SW SW SE			Measured Total Depth: 15500
Feet From: SOUTH	1/4 Section Line: 165		True Vertical Depth: 4900
Feet From: EAST	1/4 Section Line: 2000		End Point Location from Lease, Unit, or Property Line: 165

NOTES:

Category	Description
DEEP SURFACE CASING	[11/23/2021 - 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	[11/23/2021 - 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 - 712414	[11/24/2021 - G56] - (I.O.) 28-8N-12E X681858 WDFD 2 WELLS CALYX ENERGY III, LLC 6/18/2020
INCREASED DENSITY - 712415	[11/24/2021 - G56] - (I.O.) 33-8N-12E X699143 WDFD 2 WELLS CALYX ENERGY III, LLC 6/18/2020
INCREASED DENSITY - 719039	[11/24/2021 - G56] - EXTENSION OF TIME FOR ORDER # 712414
INCREASED DENSITY - 719040	[11/24/2021 - G56] - EXTENSION OF TIME FOR ORDER # 712415

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LOCATION EXCEPTION - 712413	[11/24/2021 - G56] - (I.O.) 28 & 33-8N-12E X681858 MYES, WDFD, HNTN, SLVN 28-8N-12E X699143 MYES, WDFD, SLVN 33-8N-12E X540730 HNTN 33-8N-12E COMPL INT (28-8N-12E) NCT 165' FNL, NCT 0' FSL, NCT 1800' FWL COMPL INT (33-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 1800' FWL CALYX ENERGY III, LLC 6/18/2020
LOCATION EXCEPTION - 719038	[11/24/2021 - G56] - EXTENSION OF TIME FOR ORDER # 712413
MEMO	[11/23/2021 - GC2] - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM CUTTING CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC
SPACING - 540730	[11/24/2021 - G56] - (640) 33-8N-12E VAC OTHERS EXT 540059 MSSP, WDFD, HNTN, OTHERS
SPACING - 681858	[11/24/2021 - G56] - (640)(HOR) 28-8N-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 # 512931, WDFD # 520692 WDFD, HNTN)
SPACING - 699143	[11/24/2021 - G56] - (640)(HOR) 33-8N-12E VAC 540730 WDFD EXT 674146 MYES, WDFD, SLVN, OTHER COMPL INT (MYES) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL COMPL INT (SLVN) NCT 330' FB (COEXIST WITH SP # 540730 MSSP)
SPACING - 712412	[11/24/2021 - G56] - (I.O.) 28 & 33-8N-12E EST MULTIUNIT HORIZONTAL WELL X681858 MYES, WDFD, HNTN, SLVN 28-8N-12E X699143 MYES, WDFD, SLVN 33-8N-12E X540730 HNTN 33-8N-12E (MYES, HNTN, SLVN ARE ADJACENT CSS TO WDFD) 50% 28-8N-12E 50% 33-8N-12E CALYX ENERGY III, LLC 6/18/2020

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 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.

Calyx energy LLC Well Location Plat

S.H.L. Sec. 28-8N-12E I.M.
B.H.L. Sec. 33-8N-12E I.M.

Operator: CALYX ENERGY III, LLC

Lease Name and No.: JASMINE 3-28-33WH

Surface Hole Location: 258' FNL - 2346' FEL Gr. Elevation: 913'

NW/4-NW/4-NW/4-NE/4 Section: 28 Township: 8N Range: 12E I.M.

Bottom Hole Location: 165' FSL - 2000' FEL

SE/4-SW/4-SW/4-SE/4 Section: 33 Township: 8N Range: 12E I.M.

County: Hughes State of Oklahoma

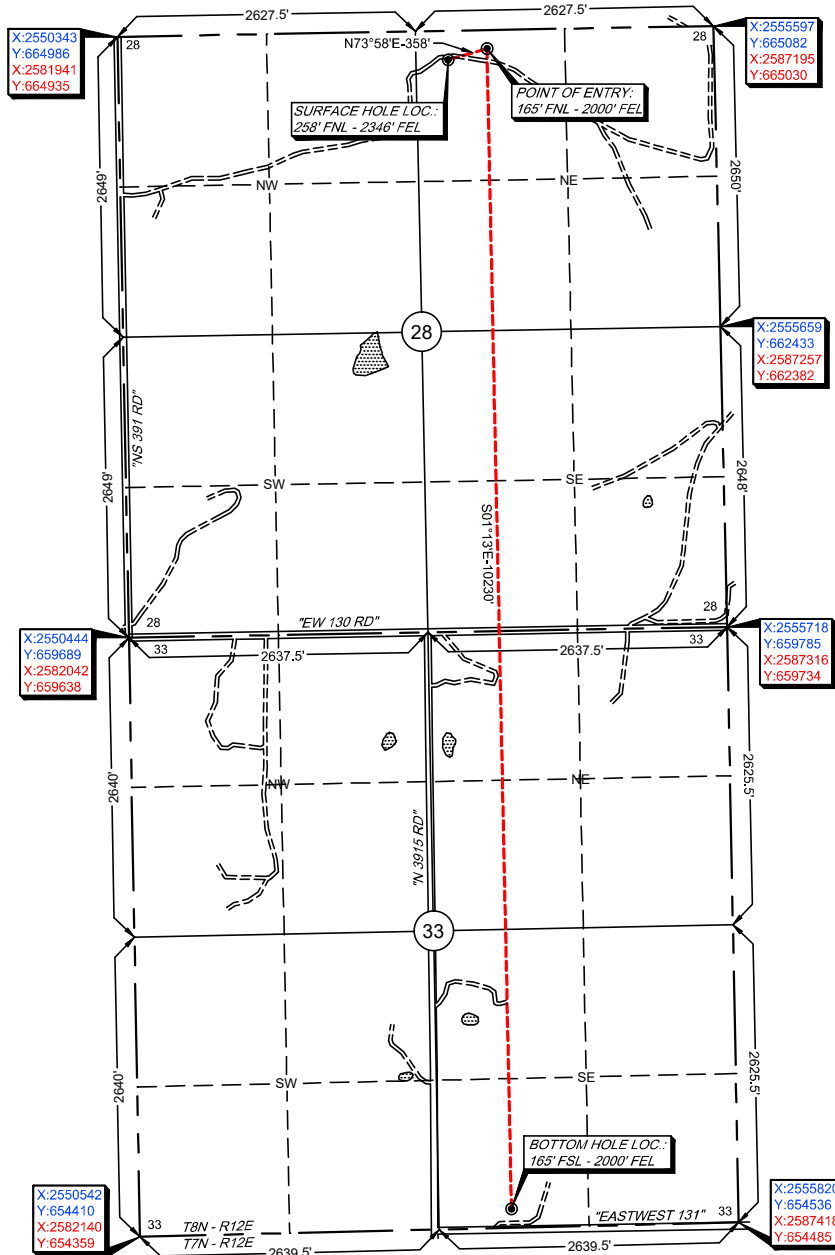
Terrain at Loc.: Location fell in open pasture with small hill on NE side.

Pad slopes down towards SW corner.



All bearings shown are grid bearings.

1" = 1320'



GPS DATUM

NAD 83

NAD 27

OK SOUTH ZONE

Surface Hole Loc.:
Lat: 35°08'39.98"N
Lon: 96°02'38.28"W
Lat: 35.14443750
Lon: -96.04396741
X: 2553257
Y: 664782

Surface Hole Loc.:
Lat: 35°08'39.64"N
Lon: 96°02'37.28"W
Lat: 35.14434314
Lon: -96.04368802
X: 2584855
Y: 664731

Point of Entry:
Lat: 35°08'40.89"N
Lon: 96°02'34.12"W
Lat: 35.14469078
Lon: -96.04281080
X: 2553601
Y: 664881

Point of Entry:
Lat: 35°08'40.55"N
Lon: 96°02'33.11"W
Lat: 35.14459638
Lon: -96.04253143
X: 2585199
Y: 664830

Bottom Hole Loc.:
Lat: 35°06'59.71"N
Lon: 96°02'33.90"W
Lat: 35.11658555
Lon: -96.04275037
X: 2553817
Y: 654653

Bottom Hole Loc.:
Lat: 35°06'59.37"N
Lon: 96°02'32.90"W
Lat: 35.11649164
Lon: -96.04247108
X: 2585415
Y: 654602

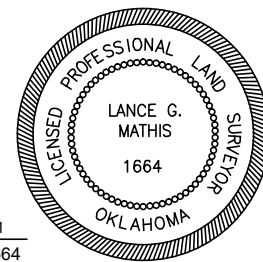
-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.
-NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.
-Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2022

Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS 11/15/2021
OK LPLS 1664



Invoice #9708-C
Date Staked: 11/08/2021 By: H.S.
Date Drawn: 11/09/2021 By: S.S.