

API NUMBER: 107 23633

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

Approval Date: 06/28/2022

Expiration Date: 12/28/2023

Multi Unit

Oil & Gas

## PERMIT TO DRILL

WELL LOCATION: Section: 17 Township: 10N Range: 12E County: OKFUSKEE

SPOT LOCATION: ☐ SE ☐ NE ☐ NE ☐ SE FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 2025 214

Lease Name: HALPERT

Well No: 2-17-5CH

Well will be 214 feet from nearest unit or lease boundary.

Operator Name: CALYX ENERGY III LLC

Telephone: 9189494224

OTC/OCC Number: 23515 0

CALYX ENERGY III LLC

TULSA, OK 74136-4226

SNELL HEIRS

PO BOX 277

WELEETKA OK 74880

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

	Name	Code	Depth
1	MISSISSIPPIAN	359MSSP	3350
2	WOODFORD	319WDFD	3800

Spacing Orders: 554633

691166

689880

726229

Location Exception Orders: 726230

Increased Density Orders: 726090

726233

726234

Pending CD Numbers: No Pending

Working interest owners' notified: \*\*\*

Special Orders: No Special

Total Depth: 15500

Ground Elevation: 664

Surface Casing: 350

Depth to base of Treatable Water-Bearing FM: 190

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: 22-38394

H. (Other) PIT 2 - CONCRETE LINED PIT (REQUIRED - NORTH CANADIAN RIVER AND BAD CREEK)

### 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? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is: ALLUVIAL

Pit Location Formation: ALLUVIUM

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

### 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? Y

Wellhead Protection Area? Y

Pit is located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is: ALLUVIAL

Pit Location Formation: ALLUVIUM

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.

**MULTI UNIT HOLE 1**

Section: 5	Township: 10N	Range: 12E	Meridian: IM	Total Length: 10230
	County: OKFUSKEE			Measured Total Depth: 15500
Spot Location of End Point: NW	NE	NE	NE	True Vertical Depth: 4900
Feet From: <b>NORTH</b>		1/4 Section Line: 165		End Point Location from
Feet From: <b>EAST</b>		1/4 Section Line: 400		Lease, Unit, or Property Line: 165

**NOTES:**

Category	Description
HYDRAULIC FRACTURING	<p>[6/15/2022 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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 6000NH shall be used and is found at this link: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a>; AND,</p> <p>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 <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a></p>
INCREASED DENSITY - 726090	<p>[6/28/2022 - GB1] - 5-10N-12E X554633 MSSP 1 WELL CALYX ENERGY III, LLC 6/10/22</p>
INCREASED DENSITY - 726233	<p>[6/28/2022 - GB1] - 8-10N-12E X691166 MSSP 1 WELL CALYX ENERGY III, LLC 6/16/2022</p>
INCREASED DENSITY - 726234	<p>[6/28/2022 - GB1] - 17-10N-12E X689880 MSSP 1 WELL CALYX ENERGY III, LLC 6/16/2022</p>
LOCATION EXCEPTION - 726230	<p>[6/28/2022 - GB1] - (I.O.) 5, 8, &amp; 17-10N-12E X554633 MSSP, WDFD 5-10N-12E X691166 MSSP, WDFD 8-10N-12E X689880 MSSP, WDFD 17-10N-12E COMPL INT (17-10N-12E) NCT 1320' FSL, NCT 0' FNL, NCT 330' FEL COMPL INT (8-10N-12E) NCT 0' FSL, NCT 0' FNL, NCT 330' FEL COMPL INT (5-10N-12E) NCT 0' FSL, NCT 165' FNL, NCT 330' FEL CALYX ENERGY III, LLC 6/16/2022</p>
PUBLIC WATER SUPPLY	<p>[6/15/2022 - GC2] - MCINTOSH CO RWD #13 (WELLS) - 2 WELLS SW/4 17-10N-12E</p>
SPACING - 554633	<p>[6/28/2022 - GB1] - (640) 5-10N-12E EST MSSP, WDFD, OTHERS</p>
SPACING - 689880	<p>[6/28/2022 - GB1] - (640)(HOR) 17-10N-12E EST MSSP, WDFD, OTHERS COMPL INT (MSSP, OTHER) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL</p>
SPACING - 691166	<p>[6/28/2022 - GB1] - (640)(HOR) 8-10N-12E EST MSSP, WDFD, OTHERS COMPL INT (MSSP, OTHER) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL</p>
SPACING - 726229	<p>[6/28/2022 - GB1] - (I.O.) 5, 8, &amp; 17-10N-12E EST MULTIUNIT HORIZONTAL WELL X554633 MSSP, WDFD 5-10N-12E X691166 MSSP, WDFD 8-10N-12E X689880 MSSP, WDFD 17-10N-12E (WDFD ADJ CSS TO MSSP) 25% 17-10N-12E 50% 8-10N-12E 25% 5-10N-12E NO OP NAMED 6/16/2022</p>
SURFACE CASING	<p>[6/15/2022 - GC2] - NO DEEP SURFACE CASING DUE TO BEING INSIDE A PUBLIC WATER SUPPLY WELL.</p>

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.



# Well Location Plat

S.H.L. Sec. 17-10N-12E I.M.  
B.H.L. Sec. 5-10N-12E I.M.

Operator: CALYX ENERGY III, LLC  
Lease Name and No.: HALPERT 2-17-5CH  
Surface Hole Location: 2025' FSL - 214' FEL Gr. Elevation: 664'  
SE 1/4-NE 1/4-NE 1/4-SE 1/4 Section: 17 Township: 10N Range: 12E I.M.  
Bottom Hole Location: 165' FNL - 400' FEL  
NW 1/4-NE 1/4-NE 1/4-NE 1/4 Section: 5 Township: 10N Range: 12E I.M.  
County: Oklahoma State of Oklahoma  
Terrain at Loc.: Location fell in on existing pad.



All bearings shown  
are grid bearings.

0' 750' 1500' 2250'  
1" = 1500'

GPS DATUM

NAD 83

NAD 27

OK NORTH ZONE

Surface Hole Loc.:  
Lat: 35°20'19.84"N  
Lon: 96°03'10.55"W  
Lat: 35.33884374  
Lon: -96.05293098  
X: 2549225.11  
Y: 129170.32

Surface Hole Loc.:  
Lat: 35°20'19.48"N  
Lon: 96°03'09.55"W  
Lat: 35.33874555  
Lon: -96.05265198  
X: 2580822.58  
Y: 129133.08

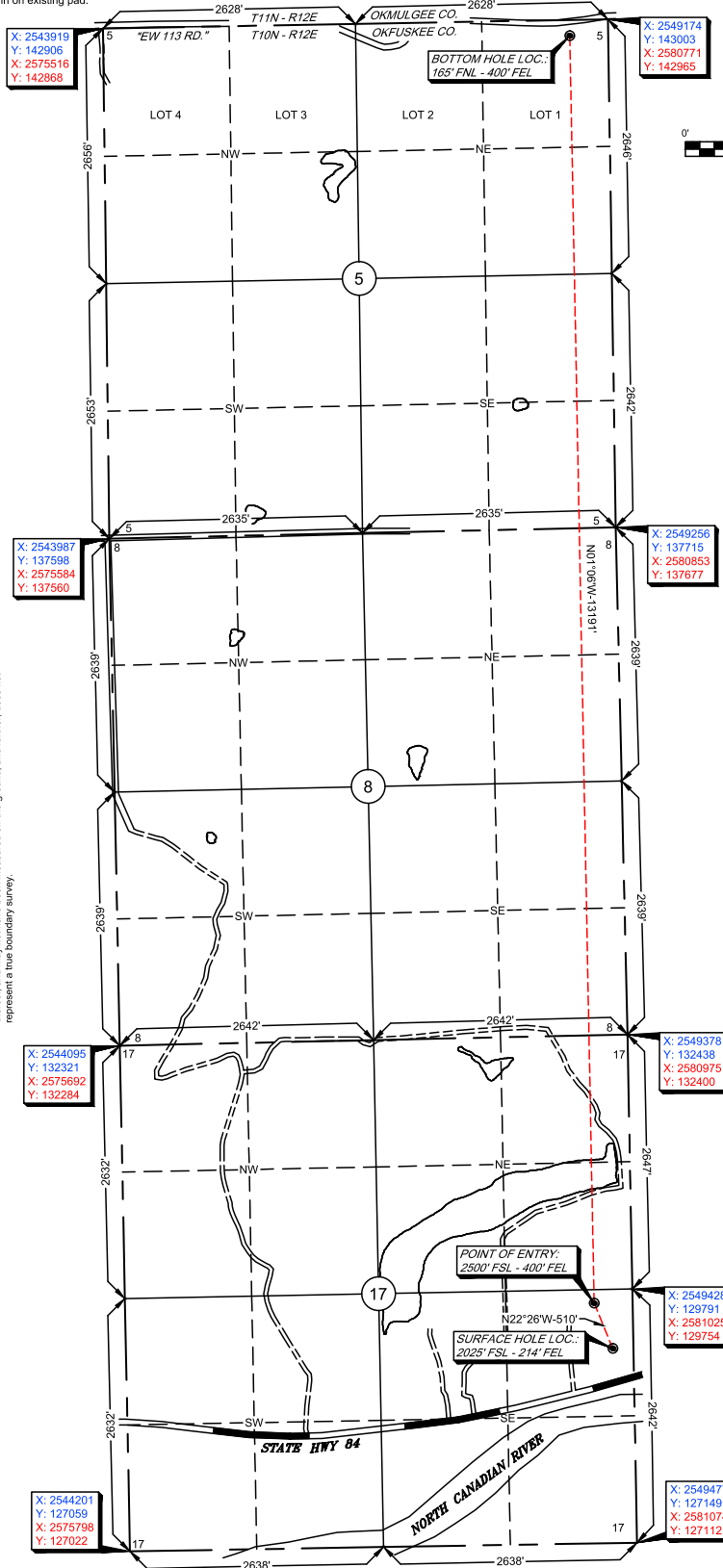
Point of Entry:  
Lat: 35°20'24.54"N  
Lon: 96°03'12.79"W  
Lat: 35.34015020  
Lon: -96.05355212  
X: 2549030.35  
Y: 129642.09

Point of Entry:  
Lat: 35°20'24.19"N  
Lon: 96°03'11.78"W  
Lat: 35.34005201  
Lon: -96.05327312  
X: 2580627.81  
Y: 129604.83

Bottom Hole Loc.:  
Lat: 35°22'34.99"N  
Lon: 96°03'12.66"W  
Lat: 35.37638644  
Lon: -96.05351613  
X: 2548776.64  
Y: 142830.20

Bottom Hole Loc.:  
Lat: 35°22'34.63"N  
Lon: 96°03'11.65"W  
Lat: 35.37628730  
Lon: -96.05323749  
X: 2580373.97  
Y: 142792.24

-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 you have any questions or concerns regarding this survey.  
-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 of the land, 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

Invoice #8433-B-B  
Date Staked: 05/19/2022 By: H.S.  
Date Drawn: 05/24/2022 By: J.L.  
Added Bore Path: 06/02/2022 By: J.L.

## 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  
06/03/2022  
OK LPLS 1664

