

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

API NUMBER: 063 24826 A

Approval Date: 07/13/2018

Expiration Date: 01/13/2019

Horizontal Hole Oil & Gas

Amend reason: ADD HORIZONTAL INFO, CORRECT SURFACE  
FOOTAGES, CORRECT GROUND ELEVATION

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 05 Twp: 8N Rge: 12E

County: HUGHES

SPOT LOCATION: ☐ NE ☐ NW ☐ SE ☐ SE

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 999 905

Lease Name: ROOSEVELT

Well No: 3-5-18CH

Well will be 905 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

JAMES B. WISE  
3401 HICKORY STICK RD  
OKLAHOMA CITY OK 73120

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

	Name	Depth	Name	Depth
1	CANEY	3800	6	
2	MAYES	4000	7	
3			8	
4			9	
5			10	

Spacing Orders: 671026  
673572

Location Exception Orders: 677379

Increased Density Orders:

Pending CD Numbers: 201801933

Special Orders:

Total Depth: 13801

Ground Elevation: 736

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 280

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 is 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).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

H. SEE MEMO

F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649

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 18 Twp 8N Rge 12E County HUGHES

Spot Location of End Point: NE SW NE NW

Feet From: NORTH 1/4 Section Line: 765

Feet From: WEST 1/4 Section Line: 1690

Depth of Deviation: 3518

Radius of Turn: 382

Direction: 225

Total Length: 9683

Measured Total Depth: 13801

True Vertical Depth: 4100

End Point Location from Lease,  
Unit, or Property Line: 0

### Notes:

#### Category

#### Description

#### DEEP SURFACE CASING

5/31/2018 - 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

5/31/2018 - 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](http://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](http://FRACFOCUS.ORG)

#### LOCATION EXCEPTION - 677379

7/27/2018 - G57 - (640) 5,7,8,18-8N-12E  
X673572 CNEY, MYES 5,7,-8-8N-12E  
X671026 CNEY, MYES 18-8N-12E  
COMPL. INT. (5-8N-12E) NFT 1980' FSL, NCT 0' FSL, NCT 1320' FEL  
COMPL. INT. (8-8N-18E) NCT 0' FNL, NCT 0' FWL, NCT 2640' FEL  
COMPL. INT. (7-8N-12E) NCT 0' FSL, NCT 0' FEL, NCT 2640' FWL\*\*  
COMPL. INT. (18-8N-12E) NCT 0' FNL, NCT 1320' FNL, NCT 990' FEL  
CALYX ENERGY III, LLC.  
5-7-2018

\*\*S/B NCT 1980' FWL; WILL BE CORRECTED AT THE HEARING FOR THE FINAL ORDER PER THE OPERATOR

This permit does not address the right of entry or settlement of surface damages.

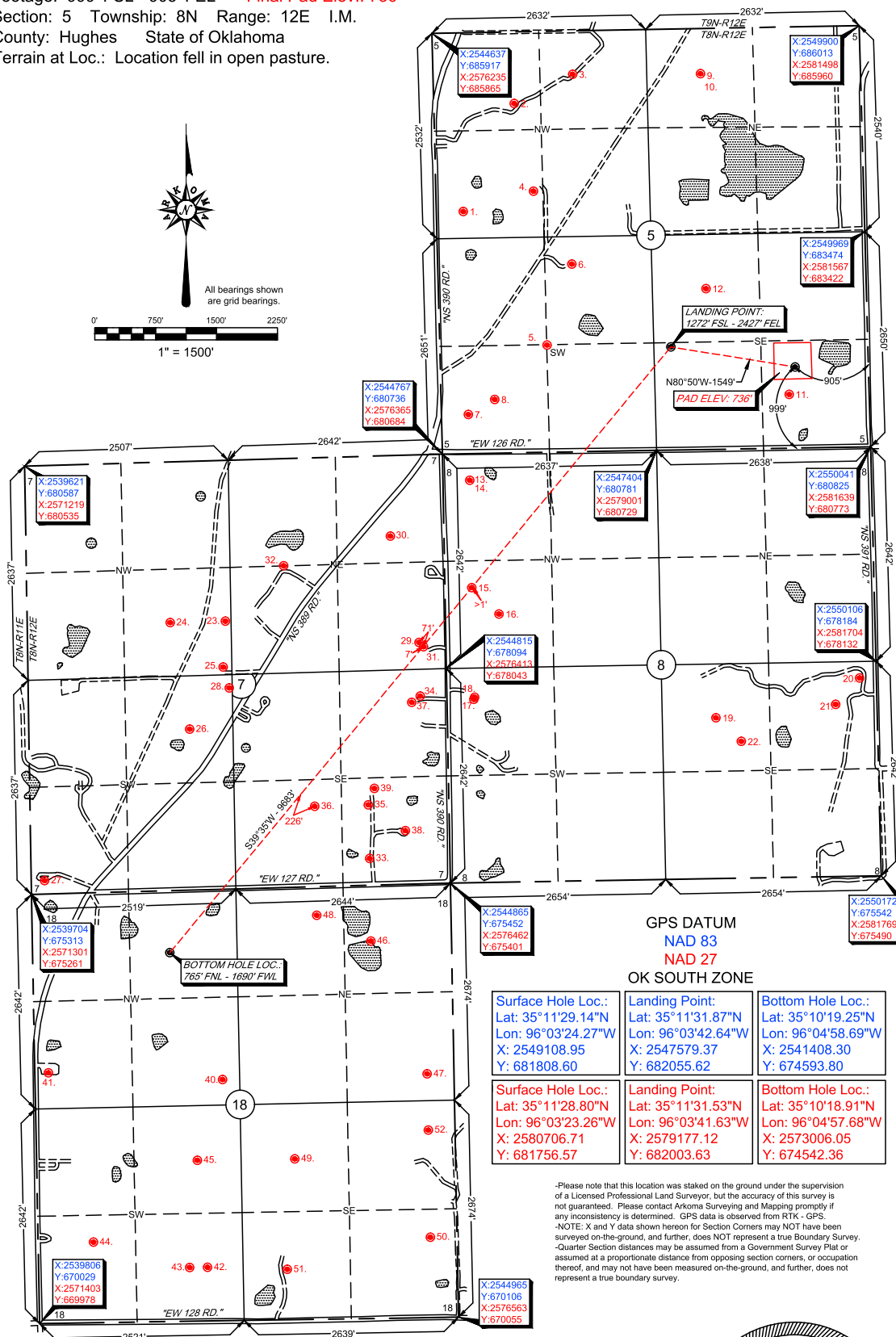
063 24826 ROOSEVELT 3-5-18CH

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.

Category	Description
MEMO	6/1/2018 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC
PENDING CD - 201801933	6/1/2018 - G57 - (I.O.) 5,7,8,18-8N-12E EST MULTIUNIT HORIZONTAL WELL X673572 MYES, CNEY 5,7,8-8N-12E X671026 MYES, CNEY 18-8N-12E (MYES IS THE ADJACENT COMMON SOURCES OF SUPPLY TO THE CNEY) 15% 5-8N-12E 30% 8-8N-12E 40% 7-8N-12E 15% 18-8N-12E NO OP. NAMED REC 5-21-2018 (DUNN)
SPACING - 671026	6/1/2018 - G57 - (640) 18-8N-12E EST CNEY, MYES, OTHERS POE TO BHL (MYES) NLT 660' FB POE TO BHL (CNEY) NLT 330' FB
SPACING - 673572	6/1/2018 - G57 - (640)(HOR) 5,7,8-8N-12E EST CNEY, MYES POE TO BHL (MYES) NLT 660' FB POE TO BHL (CNEY) NLT 330' FB

Operator: CALYX ENERGY III, LLC  
Lease Name and No.: ROOSEVELT 3-5-18CH  
Footage: 999' FSL - 905' FEL **Final Pad Elev.: 736'**  
Section: 5 Township: 8N Range: 12E I.M.  
County: Hughes State of Oklahoma  
Terrain at Loc.: Location fell in open pasture.



-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, 2018  
Invoice #7653-C  
Date Staked: 02/26/18 By: H.S.  
Date Drawn: 02/26/18 By: J.H.  
Rev. X&Y Decimals: 06/05/18 By: R.M.

## 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

06/08/18

OK LPLS 1664

