

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 B

Approval Date: 07/13/2018  
Expiration Date: 01/13/2019

Horizontal Hole Oil & Gas  
Multi Unit

Amend reason: AMEND TO PROVIDE AS DRILLED LOCATION PER  
OCC REQUEST, UPDATE ORDERS AND BHL

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

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		7	
3		8	
4		9	
5		10	

Spacing Orders: 671026 Location Exception Orders: 694385 Increased Density Orders:  
673572  
694384

Pending CD Numbers: Special Orders:

Total Depth: 15992 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 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 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: SW NE SW

Feet From: SOUTH 1/4 Section Line: 1743

Feet From: WEST 1/4 Section Line: 2081

Depth of Deviation: 3518

Radius of Turn: 382

Direction: 225

Total Length: 9683

Measured Total Depth: 15992

True Vertical Depth: 3982

End Point Location from Lease,  
Unit, or Property Line: 1743

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)

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

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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.

063 24826 ROOSEVELT 3-5-18CH

LOCATION EXCEPTION - 694385	7/27/2018 - G57 - (F.O.) 5,7,8 & 18-8N-12E X673572 CNEY 5,7 & 8-8N-12E X671026 CNEY 18-8N-12E SHL (5-8N-12E) 999' FSL, 905' FEL 5-8N-12E COMPL. INT. (FIRST PERF) 446' FSL, 1709' FEL COMPL. INT. (LAST PERF) 0' FSL, 2055' FEL 8-8N-18E COMPL. INT. (FIRST PERF) 0' FSL, 2055' FEL COMPL. INT. (LAST PERF) 745' FSL, 0' FWL 18-8N-12E COMPL. INT. (FIRST PERF) 0' FSL, 522' FEL COMPL. INT. (LAST PERF) 1821' FSL, 2140' FWL CALYX ENERGY III, LLC 4/10/2019
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
SPACING - 671026	11/25/2019 - G56 - (640) 18-8N-12E EST CNEY, OTHERS POE TO BHL NLT 330' FB
SPACING - 673572	11/25/2019 - G56 - (640)(HOR) 5,7,8-8N-12E EST CNEY, OTHER POE TO BHL NLT 330' FB
SPACING - 694384	11/25/2019 - G56 - (F.O.) 5,7,8,18-8N-12E EST MULTIUNIT HORIZONTAL WELL X673572 CNEY 5,7,8-8N-12E X671026 CNEY 18-8N-12E 4.9485% 5-8N-12E 49.0446% 8-8N-12E 80.479% 7-8N-12E 37.959% 18-8N-12E CALYX ENERGY III, LLC 4/10/2019

**SUMMARY OF BOTTOM HOLE LOCATIONS  
CALYX ENERGY III, LLC**

Roosevelt 3-5-18CH  
5,7,8,&18-8N-12E  
Hughes Co.

CD 2018-1933-T (Multi Unit Hz) Int. Order 681725

CD 2018-1934-T (Loc. Exc.- sec. 5,7,8,&18) Int. Order 677379

	MD	TVD	Location
Surface Location			999' FSL & 905' FEL of sec. 5-8N-12E
Caney	4,519'	4,080'	461' FSL & 1697' FEL of sect. 5-8N-12E
First Perforation	4,537'	4,081'	446' FSL & 1709' FEL of sect. 5-8N-12E
South line of sec. 5 / North line of sec. 8	5,099'	4,075'	0' FSL & 2055' FEL of sect. 5-8N-12E
South line of sec. 8 / West line of sec. 8	10,669'	3,922'	745' FSL & 0' FWL of sect. 8-8N-12E
South line of sec. 7 / North line of sec. 18	11,583'	3,899'	0' FSL & 522' FEL of sect. 7-8N-12E
Last Perforation	15,894'	3,980'	1821' FSL & 2140' FWL of sect. 18-8N-12E
Terminus (BHL)	15,992'	3,982'	1743' FSL & 2081' FWL of sect. 18-8N-12E

Perforations in sections 5,7,8,&18 are in the Caney only.

The completion interval (CI) is from first perforation 4,537' to last perforation 15,894' MD.

Formation tops and entry points	MD	Length of CI in each unit (% of total)
Caney	4,519	
First Perforation	4,537	562' in section 5 (4.9485%)
South line of sec. 5 / North line of sec. 8	5,099	5,570' in section 8 (49.0446%)
South line of sec. 8 / West line of sec. 8	10,669	914' in section 7 (8.0479%)
South line of sec. 7 / North line of sec. 18	11,583	4,311' in section 18 (37.959%)
Last Perforation	15,894	
Total Depth (BHL) in Caney	15,992	11,357' total length of C.I. (100%)

5,7,8,&18-8N-12E

Roosevelt 3-5-18CH

- Well Path
- Completion Interval
- Surface Location

