

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

API NUMBER: 063 24768 A

Approval Date: 02/12/2018  
Expiration Date: 08/12/2018

Horizontal Hole Oil & Gas

Amend reason: AMEND TO REFLECT ADDITIONAL PIT OPTION  
FOR DRILLING SURFACE CASING

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 8N Rge: 12E County: HUGHES  
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 197 545

Lease Name: LINCOLN Well No: 1-13-12WH Well will be 197 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

MIDDLE CREEK, LLC  
2798 N 394 RD  
DUSTIN OK 74839

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

	Name	Depth	Name	Depth
1	WOODFORD	4800	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 670966  
671757  
673488

Location Exception Orders: 673489

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 15500 Ground Elevation: 672 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 180

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

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.  
B. Solidification of pit contents.

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

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

H. SEE MEMO

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 12 Twp 8N Rge 12E County HUGHES

Spot Location of End Point: N2 NW NW NW

Feet From: NORTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 4501

Radius of Turn: 491

Direction: 10

Total Length: 10228

Measured Total Depth: 15500

True Vertical Depth: 4900

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

Notes:

Category

Description

DEEP SURFACE CASING

1/23/2018 - 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

1/23/2018 - 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 - 673489

5/10/2018 - G58 - (I.O.) 12 & 13-8N-12E  
X671757 WDFD (12 & 13-8N-12E)  
COMPL. INT. (13-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL  
COMPL. INT. (12-8N-12E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL  
NO OP. NAMED  
2/12/2018

MEMO

5/9/2018 - 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

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

063 24768 LINCOLN 1-13-12WH

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
PENDING CD - 201800557	1/24/2018 - G58 - (640)(HOR) 12 & 13-8N-12E VAC 670966 WDFD, OTHERS REC 2/12/2018 (DUNN)
SPACING - 671757	1/24/2018 - G58 - (640)(HOR) 12 & 13-8N-12E EST WDFD, OTHERS COMPL. INT. NLT 165' FNL & FSL, NCT 330' FEL & FWL (EXIST CONCURRENTLY WITH PREVIOUSLY FORMED NON-HORIZONTAL DRILLING AND SPACING UNIT)
SPACING - 673488	5/10/2018 - G58 - (I.O.) 12 & 13-8N-12E EST. MULTIUNIT HORIZONTAL WELL X671757 WDFD (12 & 13-8N-12E) 50% 13-8N-12E 50% 12-8N-12E NO OP. NAMED 2/12/2018

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