

API NUMBER: 063 24904 A

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

Approval Date: 01/23/2020
Expiration Date: 07/23/2021

Multi Unit Oil & Gas

Amend reason: ADDING MAYES FORMATION

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 14 Township: 8N Range: 12E County: HUGHES

SPOT LOCATION: SE NW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 799 1741

Lease Name: HAMILTON Well No: 2-14-2WH Well will be 799 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
DUSTIN OK 74839

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

	Name	Code	Depth
1	MAYES	353MYES	4700
2	WOODFORD	319WDFD	4800

Spacing Orders: 670063 Location Exception Orders: 707522 Increased Density Orders: 707353
671757 707354
707521 710234

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 15500 Ground Elevation: 671 Surface Casing: 750 Depth to base of Treatable Water-Bearing FM: 60

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: 20-37219
H. (Other) PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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: 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? 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

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: 2	Township: 8N	Range: 12E	Total Length: 10058	
County: HUGHES			Measured Total Depth: 15500	
Spot Location of End Point: NW	SW	SE	True Vertical Depth: 4900	
Feet From: SOUTH	1/4 Section Line: 600		End Point Location from	
Feet From: EAST	1/4 Section Line: 2400		Lease, Unit, or Property Line: 600	

NOTES:	
Category	Description
DEEP SURFACE CASING	1/22/2020 - 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	1/22/2020 - 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: OCCWEB.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
INCREASED DENSITY - 707353	1/23/2020 - G56 - 2-8N-12E X670063 WDFD 3 WELLS CALYX ENERGY III, LLC 1/9/2020
INCREASED DENSITY - 707354	1/23/2020 - G56 - 14-8N-12E X671757 WDFD 3 WELLS CALYX ENERGY III, LLC 1/9/2020
INCREASED DENSITY - 710234	8/27/2020 - G56 - 11-8N-12E X671757 WDFD 3 WELLS CALYX ENERGY, LLC 3/25/2020
LOCATION EXCEPTION - 707522	8/27/2020 - G56 - (I.O.) 2, 11 & 14-8N-12E X670063 WDFD, OTHERS 2-8N-12E X671757 MYES, WDFD, OTHERS 11 & 14-8N-12E COMPL INT (14-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 1500' FEL COMPL INT (11-8N-12E) NCT 0' FSL, NCT 0' FNL, NCT 1500' FEL COMPL INT (2-8N-12E) NCT 0' FSL, NCT 800' FSL, NCT 1500' FEL CALYX ENERGY III, LLC 1/14/2020
SPACING - 670063	1/22/2020 - G56 - (640)(HOR) 2-8N-12E VAC OTHERS EST WDFD, OTHERS COMPL INT NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 671757	8/27/2020 - G56 - (640)(HOR) 11 & 14-8N-12E EST MYES, WDFD, OTHERS COMPL INT (MYES) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL
SPACING - 707521	8/27/2020 - G56 - (I.O.) 2, 11 & 14-8N-12E EST MULTIUNIT HORIZONTAL WELL X670063 WDFD, OTHERS 2-8N-12E X671757 MYES, WDFD, OTHERS 11 & 14-8N-12E (MYES IS AN ADJACENT COMMON SOURCE OF SUPPLY TO WDFD) 47.5% 14-8N-12E 47.5% 11-8N-12E 5% 2-8N-12E CALYX ENERGY III, LLC 1/14/2020

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.