API NUMBER: 063 24904

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

799 feet from nearest unit or lease boundary.

74839

707354

23515 0

OTC/OCC Number:

OK

Horizontal Hole Multi Unit Oil & Gas

				PERMIT TO D	<u>DRILL</u>
POT LOCATION		Rge: 12E	County: HUG FEET FROM QUARTER: FROM SECTION LINES: Well No:	SOUTH FROM 799 2-14-2WH	WEST 1741 Well will be
Operator Name:	CALYX ENERGY III LLC		well No:	Telephone: 9	
-	CENERGY III LLC SYALE AVE STE 1480				MIDDLE CREEK, LLC
TULSA	۸,	OK	74136-4226		2798 N 394 DUSTIN
Formation	(s) (Permit Valid for Li	isted Forn	• /		
	Name		Depth		Name
1	WOODFORD		4800	•	3
2				-	7

Name	Depth	
	Increased Density Orders: 707353	

Pending CD Numbers: 201905631 Special Orders:

Location Exception Orders:

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

8

9 10

Deep surface casing has been approved

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

3

4

Spacing Orders:

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? N

670063

671757

707521

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).

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. PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 02 Twp 8N Rge 12E County HUGHES

Spot Location of End Point: NW SW SW SE
Feet From: SOUTH 1/4 Section Line: 600
Feet From: EAST 1/4 Section Line: 2400

Depth of Deviation: 4700 Radius of Turn: 472

Direction: 8

Total Length: 10058

Measured Total Depth: 15500

True Vertical Depth: 4900

End Point Location from 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:

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

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

LOCATION EXCEPTION - 707522 1/23/2020 - G56 - (I.O.) 2, 11 & 14-8N-12E

X670063 WDFD, OTHERS 2-8N-12E

X671757 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, NFT 800' FSL, NCT 1500' FEL

CALYX ENERGY III, LLC

1/14/2020

PENDING CD - 201905631 1/23/2020 - G56 - 11-8N-12E

X671757 WDFD 3 WELLS NO OP NAMED

REC 12/16/2019 (JOHNSON)

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 1/22/2020 - G56 - (640)(HOR) 11 & 14-8N-12E

EST WDFD, OTHERS

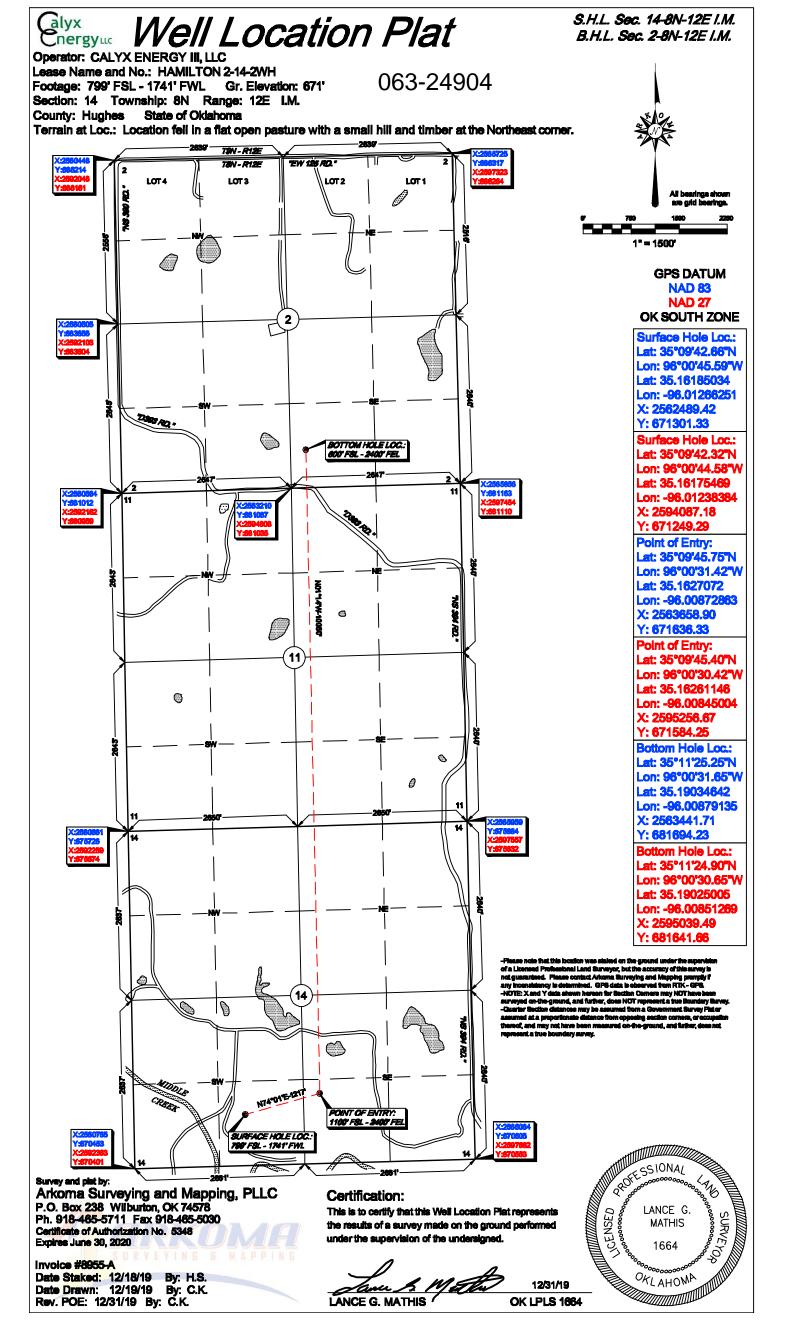
COMPL INT NLT 165' FNL/FSL, NLT 330' FEL/FWL

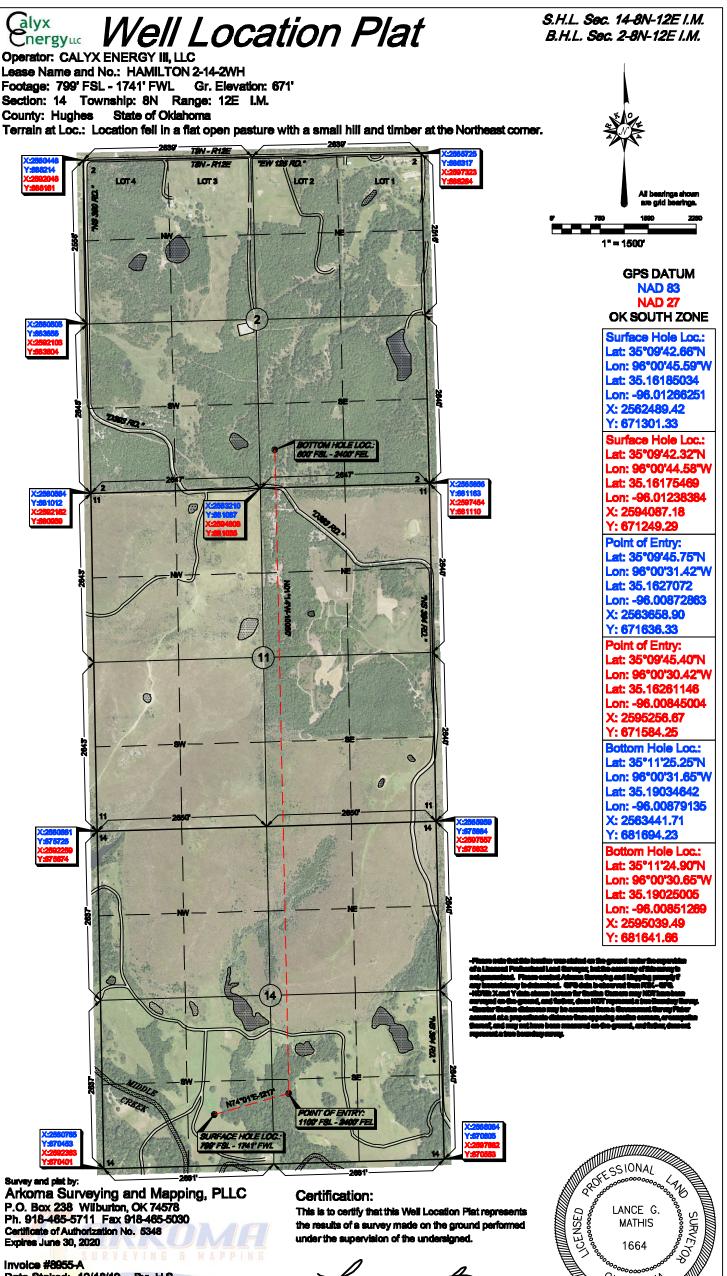
SPACING - 707521 1/23/2020 - G56 - (I.O.) 2, 11 & 14-8N-12E

EST MULTIUNIT HORIZONTAL WELL X670063 WDFD, OTHERS 2-8N-12E X671757 WDFD, OTHERS 11 & 14-8N-12E

47.5% 14-8N-12E 47.5% 11-8N-12E 5% 2-8N-12E CALYX ENERGY III, LLC

1/14/2020





Date Staked: 12/18/19 By: H.S. Date Drawn: 12/19/19 By: C.K. Rev. POE: 12/31/19 By: C.K.

5 Mitte LANCE G. MATHIS

12/31/19

OK LPLS 1664

