

API NUMBER: 063 24923

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

Approval Date: 09/18/2020
Expiration Date: 03/18/2022

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 10 Township: 8N Range: 12E County: HUGHES

SPOT LOCATION: FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 275 2280

Lease Name: RAPUNZEL Well No: 3-15-22WH Well will be 275 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 NORTH 394
DUSTIN OK 74839

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

	Name	Code	Depth
1	MAYES	353MYES	4670
2	WOODFORD	319WDFD	4770
3	HUNTON	269HNTN	4820
4	SYLVAN	203SLVN	4820

Spacing Orders: 686152 Location Exception Orders: 713992 Increased Density Orders: 713993
686153
713991 713597
500837

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 15350 Ground Elevation: 669

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 40

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: 20-37404
H. (Other) SEE MEMO

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).

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

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: 22	Township: 8N	Range: 12E	Total Length: 10230
County: HUGHES			Measured Total Depth: 15350
Spot Location of End Point: S2	S2	SE SW	True Vertical Depth: 5000
Feet From: SOUTH	1/4 Section Line: 165		End Point Location from
Feet From: WEST	1/4 Section Line: 1980		Lease, Unit, or Property Line: 165

NOTES:

Category	Description
DEEP SURFACE CASING	9/15/2020 - GC2 - 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	9/15/2020 - GC2 - 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 - 713597 (202001196)	9/18/2020 - GB1 - 22-8N-12E X686153 WDFD 2 WELLS CALYX ENERGY III, LLC 7/31/2020
INCREASED DENSITY - 713993 (202001195)	9/18/2020 - GB1 - 15-8N-12E X686152 WDFD 2 WELLS CALYX ENERGY III, LLC 8/20/2020
LOCATION EXCEPTION - 713992 (202001194)	9/18/2020 - GB1 - (I.O.) 15 & 22-8N-12E X686152 MYES, WDFD, SLVN 15-8N-12E X686153 MYES, WDFD, SLVN 22-8N-12E X500837 HNTN 15 & 22-8N-12E COMPL INT (15-8N-12E) NCT 165' FNL, NCT 0' FSL, NCT 1800' FEL COMPL INT (22-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 1800' FEL CALYX ENERGY III, LLC 8/20/2020
MEMO	9/15/2020 - GC2 - 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 - 500837	9/18/2020 - GB1 - (640) 15 & 22-8N-12E VAC OTHERS EST MSSP, WDFD, HNTN, OTHERS (VAC 15-8N-12E MSSP, WDFD BY #686152; 22-8N-12E MSSP, WDFD BY #686153)
SPACING - 686152	9/18/2020 - GB1 - (640)(HOR) 15-8N-12E VAC 500837 MSSP, WDFD EXT 671213 MYES, WDFD, SLVN, OTHER COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL COMPL INT (SLVN, OTHER) NLT 330' FB COMPL INT (MYES) NLT 600' FB*** ***S/B 660' FB; NPT WILL BE FILED TO CORRECT PER ATTORNEY; OK PER MCCOY
SPACING - 686153	9/18/2020 - GB1 - (640)(HOR) 22-8N-12E VAC 500837 MSSP, WDFD EXT 671213 MYES, WDFD, SLVN, OTHER COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL COMPL INT (SLVN, OTHER) NLT 330' FB COMPL INT (MYES) NLT 600' FB*** ***S/B 660' FB; NPT WILL BE FILED TO CORRECT PER ATTORNEY; OK PER MCCOY

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.

SPACING - 713991 (202001193)	9/18/2020 - GB1 - (I.O.) 15 & 22-8N-12E EST MULTIUNIT HORIZONTAL WELL X686152 MYES, WDFD, SLVN 15-8N-12E X686153 MYES, WDFD, SLVN 22-8N-12E X500837 HNTN 15 & 22-8N-12E (MYES, HNTN, SLVN ADJACENT COMMON SOURCES OF SUPPLY TO WDFD) 50% 15-8N-12E 50% 22-8N-12E CALYX ENERGY III, LLC 8/20/2020
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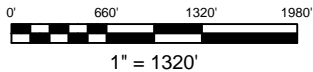
Well Location Plat

S.H.L. Sec. 10-8N-12E I.M.
B.H.L. Sec. 22-8N-12E I.M.

Operator: CALYX ENERGY III, LLC
Lease Name and No.: RAPUNZEL 3-15-22WH
Surface Hole Location: 275' FSL - 2280' FEL Gr. Elevation: 669'
SE/4-SW/4-SW/4-SE/4 Section: 10 Township: 8N Range: 12E I.M
Bottom Hole Location: 165' FSL - 1980' FWL
SW/4-SE/4-SE/4-SW/4 Section: 22 Township: 8N Range: 12E I.M.
County: Hughes State of Oklahoma
Terrain at Loc.: Location fell in timber, hill on NE side of location.



All bearings shown
are grid bearings.



GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 35°10'29.64"N
Lon: 96°01'34.01"W
Lat: 35.17489883
Lon: -96.02611396
X: 2558376.60
Y: 675970.96

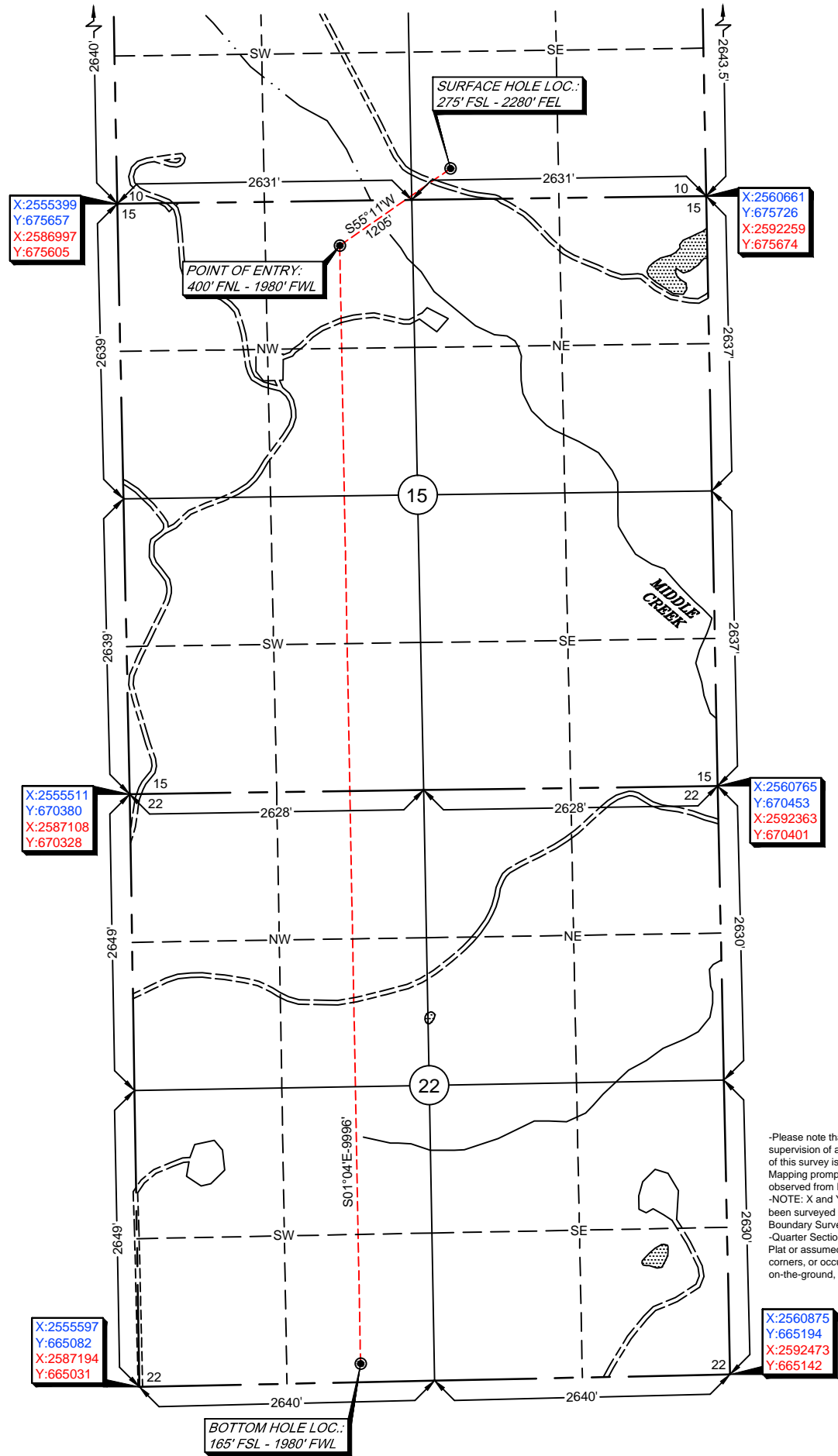
Surface Hole Loc.:
Lat: 35°10'29.29"N
Lon: 96°01'33.01"W
Lat: 35.17480335
Lon: -96.02583492
X: 2589974.36
Y: 675918.85

Point of Entry:
Lat: 35°10'23.02"N
Lon: 96°01'46.08"W
Lat: 35.17306210
Lon: -96.02946772
X: 2557387.54
Y: 675282.97

Point of Entry:
Lat: 35°10'22.68"N
Lon: 96°01'45.08"W
Lat: 35.17296677
Lon: -96.02918860
X: 2588985.30
Y: 675230.92

Bottom Hole Loc.:
Lat: 35°08'44.16"N
Lon: 96°01'46.19"W
Lat: 35.14559969
Lon: -96.02949852
X: 2557573.46
Y: 665288.87

Bottom Hole Loc.:
Lat: 35°08'43.82"N
Lon: 96°01'45.19"W
Lat: 35.14550488
Lon: -96.02921947
X: 2589171.22
Y: 665237.28



-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.

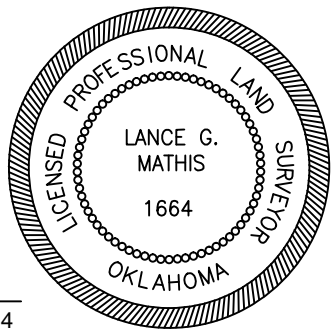
Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2022

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

08/31/2020

OK LPLS 1664



Invoice #9075-A-C
Date Staked: 08/26/2020 By: H.S.
Date Drawn: 08/28/2020 By: S.S.