

API NUMBER: 091 21824 A

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

Approval Date: 11/01/2019  
Expiration Date: 05/01/2021

Multi Unit Oil & Gas

Amend reason: REVISED SHL AND UPDATE ORDERS

**AMEND PERMIT TO DRILL**

WELL LOCATION: Section: 07 Township: 8N Range: 13E County: MCINTOSH

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST  
SECTION LINES: 647 1854

Lease Name: EDISON Well No: 2-18-19WH Well will be 647 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	CANEY	354CNEY	4500
2	MAYES	353MYES	4750
3	WOODFORD	319WDFD	4850
4	HUNTON	269HNTN	4900
5	SYLVAN	203SLVN	4900

Spacing Orders: 672567 Location Exception Orders: 703320 Increased Density Orders: 705222  
677022 705099  
674734 709314  
703319 709315

Pending CD Numbers: No Pending

Special Orders: No Special Orders

Total Depth: 15350 Ground Elevation: 915 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 190

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: 19-36985  
H. PITS 2 - WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY

**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).

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: ON SITE

Category of Pit: 1B

Type of Mud System: WATER BASED

Liner required for Category: 1B

Chlorides Max: 8000 Average: 5000

Pit Location is: BED AQUIFER

Pit Location Formation: SENORA

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.**NOTES:**

Category	Description
DEEP SURFACE CASING	9/16/2019 - 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	9/16/2019 - 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: <a href="http://OCCWEB.COM/OG/OGFORMS.HTML">OCCWEB.COM/OG/OGFORMS.HTML</a> ; 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: <a href="http://FRACFOCUS.ORG">FRACFOCUS.ORG</a>
INCREASED DENSITY - 705099 (201904206)	03/04/2020 - GC2 - 19-8N-13E X674734 WDFD 3 WELLS NO OP. NAMED 11-12-2019
INCREASED DENSITY - 705222 (201904205)	03/04/2020 - GC2 - 18-8N-13E X672567 WDFD 3 WELLS NO OP. NAMED 11-15-2019
INCREASED DENSITY - 709314 (201904205)	3/4/2020 - GC2 - 18-8N-13E X672567 MYES 2 WELLS NO OP. NAMED 2-28-2020
INCREASED DENSITY - 709315 (201904206)	3/4/2020 - GC2 - 19-8N-13E X674734 MYES 2 WELLS NO OP. NAMED 2-28-2020
LOCATION EXCEPTION - 703320	10/30/2019 - GC2 - (I.O.) 18 & 19-8N-13E X672567 CNEY, MYES, WDFD, HNTN 18-8N-13E X677022 SLVN 18-8N-13E X674734 CNEY, MYES, WDFD, HNTN, SLVN 19-8N-13E COMPL. INT. (18-8N-13E) NCT 165' FNL, NCT 0' FSL, NCT 1,320' FEL COMPL. INT. (19-8N-13E) NCT 0' FNL, NCT 165' FSL, NCT 1,320' FEL CALYX ENERGY III, LLC 10-7-2019
SPACING - 672567	10/30/2019 - GC2 - (640)(HOR) 18-8N-13E EST CNEY, MYES, WDFD, HNTN COMPL. INT. (CNEY) NLT 330' FB COMPL. INT. (MYES, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST SP ORDER 507804 CNEY, WDFD, HNTN)
SPACING - 674734	10/30/2019 - GC2 - (640)(HOR) 19-8N-13E EST CNEY, MYES, WDFD, HNTN, SLVN COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL COMPL. INT. (CNEY, SLVN) NLT 330' FB COMPL. INT. (MYES, HNTN) NLT 660' FB (COEXIST SP ORDER 515955 CNEY, WDFD, HNTN)

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.

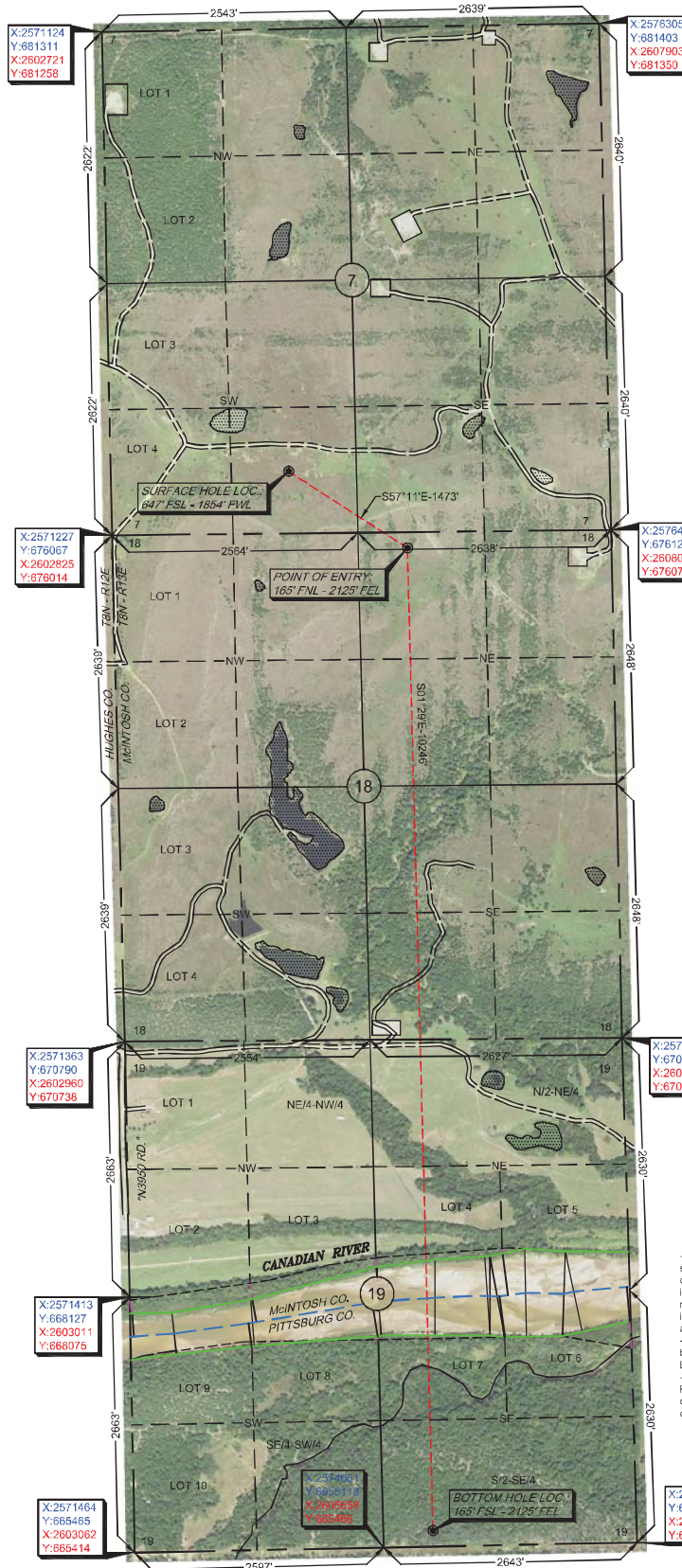
Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District

Office of the Conservation Division as to when Surface Casing will be run.

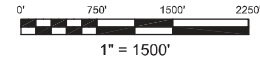
SPACING - 677022	10/30/2019 - GC2 - (640)(HOR) 18-8N-13E EXT 671803 SLVN COMPL. INT (SLVN) NLT 330' FB
SPACING - 703319	10/30/2019 - GC2 - (I.O.) 18 & 19-8N-13E EST MULTIUNIT HORIZONTAL WELL X672567 CNEY, MYES, WDFD, HNTN 18-8N-13E X677022 SLVN 18-8N-13E X674734 CNEY, MYES, WDFD, HNTN, SLVN 19-8N-13E (CNEY, HNTN, SLVN ASSOCIATED COMMON SOURCE OF SUPPLY TO MYES, WDFD) 50% 18-8N-13E 50% 19-8N-13E CALYX ENERGY III, LLC 10-7-2019

Operator: CALYX ENERGY III, LLC  
Lease Name and No.: EDISON 2-18-19W/H  
Footage: 647' FSL - 1854' FWL Gr. Elevation: 937'  
Section: 7 Township: 8N Range: 13E I.M.  
County: McIntosh State of Oklahoma  
Terrain at Loc.: Location fell in an open field with an existing lease road to the North and timber to the South.

API: 091-21824A



All bearings shown  
are grid bearings.



GPS DATUM

NAD 83

NAD 27

OK SOUTH ZONE

**Surface Hole Loc.:**  
Lat: 35°10'34.30"N  
Lon: 95°58'36.89"W  
Lat: 35.17619567  
Lon: -95.97691271  
X: 2573068.51  
Y: 676734.00

**Surface Hole Loc.:**  
Lat: 35°10'33.96"N  
Lon: 95°58'35.89"W  
Lat: 35.17609915  
Lon: -95.97663504  
X: 2604666.23  
Y: 676681.54

**Point of Entry:**  
Lat: 35°10'26.16"N  
Lon: 95°58'22.16"W  
Lat: 35.17393413  
Lon: -95.97282355  
X: 2574306.86  
Y: 675935.52

**Point of Entry:**  
Lat: 35°10'25.82"N  
Lon: 95°58'21.17"W  
Lat: 35.17383763  
Lon: -95.97254602  
X: 2605904.57  
Y: 675883.09

**Bottom Hole Loc.:**  
Lat: 35°08'44.83"N  
Lon: 95°58'21.44"W  
Lat: 35.14578489  
Lon: -95.97262153  
X: 2574572.99  
Y: 665692.97

**Bottom Hole Loc.:**  
Lat: 35°08'44.48"N  
Lon: 95°58'20.44"W  
Lat: 35.14568896  
Lon: -95.97234410  
X: 2606170.69  
Y: 665641.03

"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, 2020

Invoice #8832-A-C  
Date Staked: 10/08/19 By: H.S.  
Date Drawn: 10/10/19 By: J.C.  
Revised LP & BHL: 10/14/19 By: J.C.

## 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*  
LANCE G. MATHIS

10/17/19

OK LPLS 1664

