

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

API NUMBER: 091 21826

Approval Date: 11/01/2019

Expiration Date: 05/01/2021

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 8N Rge: 13E County: MCINTOSH

SPOT LOCATION: ☐ NE ☐ SW ☐ SE ☐ SW FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 647 1824

Lease Name: EDISON Well No: 4-18-19WH Well will be 647 feet from nearest unit or lease boundary.

Operator CALYX ENERGY III LLC
Name:

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	Depth	Name	Depth
1	CANEY	4500	6	
2	MAYES	4750	7	
3	WOODFORD	4850	8	
4	HUNTON	4900	9	
5	SYLVAN	4900	10	

Spacing Orders: 672564
677022
674734
703323

Location Exception Orders: 703324

Increased Density Orders:

Pending CD Numbers: 201904205
201904206

Special Orders:

Total Depth: 15350

Ground Elevation: 937

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

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is NON HSA

Pit Location Formation: SENORA

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: 19-36987

H. PIT 2 - WMB/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY

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

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 not located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B

Pit Location is NON HSA

Pit Location Formation: SENORA

HORIZONTAL HOLE 1

Sec 19 Twp 8N Rge 13E County PITTSBURG

Spot Location of End Point: SW SE SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 675

Depth of Deviation: 3700

Radius of Turn: 799

Direction: 185

Total Length: 10395

Measured Total Depth: 15350

True Vertical Depth: 5000

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category

Description

HYDRAULIC FRACTURING

10/22/2019 - 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

LOCATION EXCEPTION - 703324

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 330' FWL
COMPL. INT. (19-8N-13E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL
CALYX ENERGY III, LLC
10-7-2019

PENDING CD - 201904205

10/30/2019 - GC2 - 18-8N-13E
X672567 MYES, WDFD
5 WELLS; 3 WDFD, 2 MYES
NO OP. NAMED
REC. 9-23-2019 (JOHNSON)

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.

091 21826 EDISON 4-18-19WH

PENDING CD - 201904206	10/30/2019 - GC2 - 19-8N-13E X674734 MYES, WDFD 5 WELLS; 3 WDFD, 2 MYES NO OP. NAMED REC. 9-23-2019 (JOHNSON)
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)
SPACING - 677022	10/30/2019 - GC2 - (640)(HOR) 18-8N-13E EXT 671803 SLVN COMPL. INT (SLVN) NLT 330' FB
SPACING - 703323	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

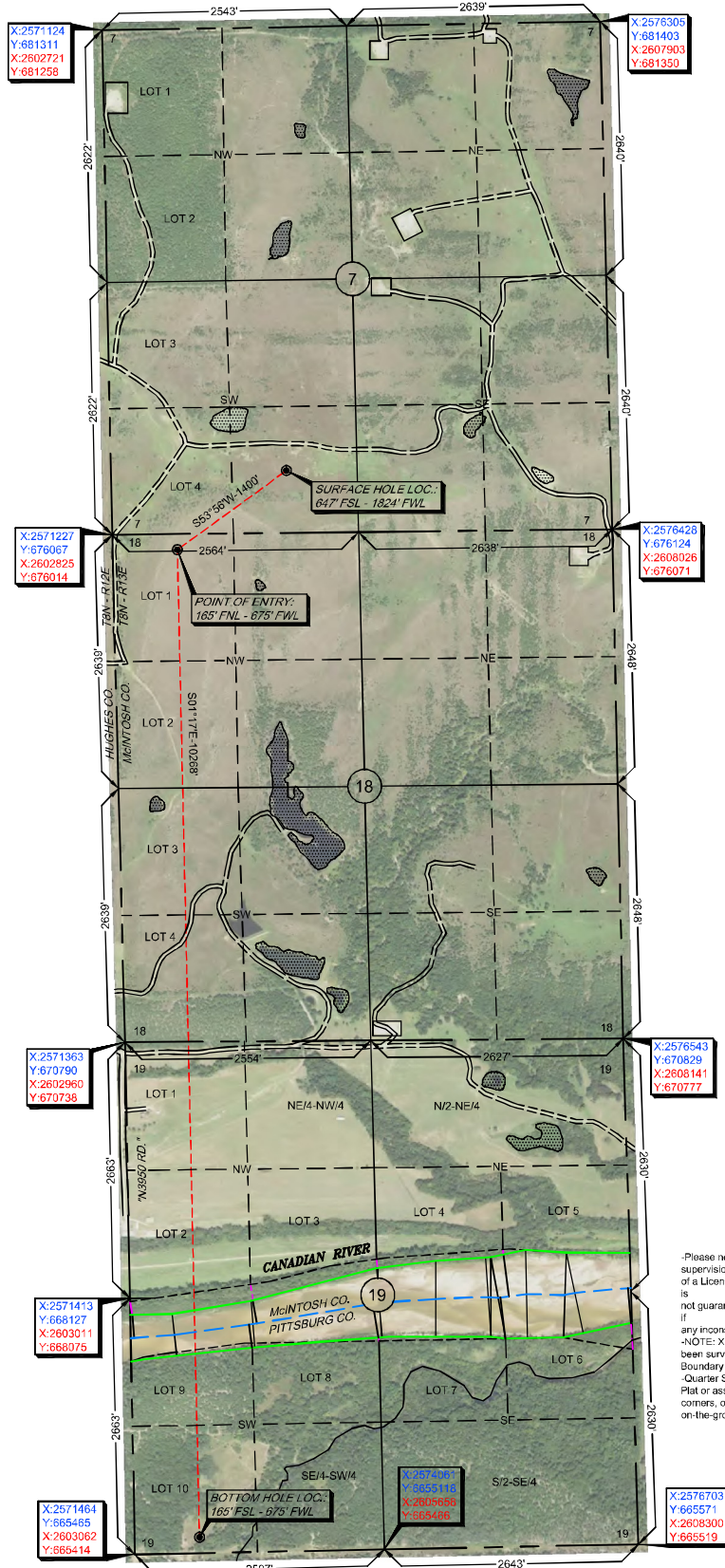


Well Location Plat

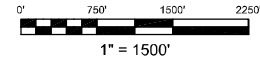
Operator: CALYX ENERGY III, LLC
 Lease Name and No.: EDISON 4-18-19W/H
 Footage: 647' FSL - 1824' FWL Gr. Elevation: 937'
 Section: 7 Township: 8N Range: 13E I.M.
 County: McIntosh State of Oklahoma
 Terrain at Loc.: Location fell in an open field with an existing lease road to the North and timber to the South.

091-21826

S.H.L. Sec. 7-8N-13E I.M.
 B.H.L. Sec. 19-8N-13E I.M.



All bearings shown
are grid bearings.



GPS DATUM

NAD 83

NAD 27

OK SOUTH ZONE

Surface Hole Loc.:
 Lat: 35°10'34.31"N
 Lon: 95°58'37.25"W
 Lat: 35.17619642
 Lon: -95.97701310
 X: 2573038.51
 Y: 676733.67

Surface Hole Loc.:
 Lat: 35°10'33.96"N
 Lon: 95°58'36.25"W
 Lat: 35.17609990
 Lon: -95.97673542
 X: 2604636.23
 Y: 676681.21

Point of Entry:
 Lat: 35°10'26.38"N
 Lon: 95°58'51.08"W
 Lat: 35.17399406
 Lon: -95.98085497
 X: 2571906.61
 Y: 675909.22

Point of Entry:
 Lat: 35°10'26.03"N
 Lon: 95°58'50.08"W
 Lat: 35.17389762
 Lon: -95.98057718
 X: 2603504.34
 Y: 675856.80

Bottom Hole Loc.:
 Lat: 35°08'44.82"N
 Lon: 95°58'50.79"W
 Lat: 35.14578454
 Lon: -95.98077423
 X: 2572136.12
 Y: 665644.00

Bottom Hole Loc.:
 Lat: 35°08'44.48"N
 Lon: 95°58'49.79"W
 Lat: 35.14568870
 Lon: -95.98049654
 X: 2603733.84
 Y: 665592.07

"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-A
 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

