API NUMBER: 063 24930

Multi Unit Oil & Gas

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

Approval Date: 06/09/2021
Expiration Date: 12/09/2022

PERMIT TO DRILL

WELL LOCATION: Section: 21 Township: 8N Range: 12E County: HUGHES

SPOT LOCATION: NW NE NE NE FEET FROM QUARTER: FROM **NORTH** FROM **EAST**

SECTION LINES: **275** **520**

Lease Name: **POCAHONTAS** **Well No:** **1-15-3WH** **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

RICK & NADA BISHOP
8648 E 127 ROAD
WETUMKA OK 74883

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

	Name	Code	Depth
1	MAYES	353MYES	4680
2	WOODFORD	319WDFD	4770
3	SYLVAN	203SLVN	4821

Spacing Orders: 675449, 671213, 686152, 716328, 718460

Location Exception Orders: 718461

Increased Density Orders: 718649, 717764, 717765

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 15500 Ground Elevation: 755

Surface Casing: 500

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: 21-37622
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: 3	Township: 8N	Range: 12E	Meridian: IM	Total Length:	11500
	County: HUGHES			Measured Total Depth:	15500
	Spot Location of End Point: SE SW NW SW			True Vertical Depth:	6000
	Feet From: **SOUTH**	1/4 Section Line: 1500		End Point Location from Lease,Unit, or Property Line:	400
	Feet From: **WEST**	1/4 Section Line: 400			

NOTES:

Category	Description
DEEP SURFACE CASING	[6/3/2021 - G56] - 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	[6/3/2021 - G56] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS ON A HORIZONTAL WELL TO OPERATORS PRODUCING WELLS WITHIN 1 MILE OF THE COMPLETION INTERVAL OF THE SUBJECT WELL. THE NOTICE TO SUCH OPERATORS SHALL CONTAIN THE INFORMATION IN FORM 6000NOO. IF THE HYDRAULIC FRACTURING OPERATIONS SCHEDULE CHANGES AFTER NOTICE HAS BEEN PROVIDED, RESULTING IN A DELAY OF OPERATIONS OF MORE THAN 5 DAYS FROM THE INITIAL NOTICE, NEW NOTICE IS REQUIRED TO BE GIVEN; 2) NOTICE WILL BE GIVEN TO THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS. FORM 6000NHF SHALL BE USED AND IS FOUND AT THIS LINK: OCCEWEB.COM/OG/OGFORMS.HTML; AND, 3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS IS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION OF HYDRAULIC FRACTURING OPERATIONS, FOUND AT FRACFOCUS.ORG
INCREASED DENSITY - 717764	[6/4/2021 - G56] - 3-8N-12E X675449 WDFD 3 WELLS CALYX ENERGY III, LLC 4/14/21
INCREASED DENSITY - 717765	[6/4/2021 - G56] - 10-8N-12E X671213 WDFD 3 WELLS CALYX ENERGY III, LLC 4/14/21
INCREASED DENSITY - 718649	[6/4/2021 - G56] - 15-8N-12E X686152 WDFD 1 WELL CALYX ENERGY III, LLC 5/28/2021
LOCATION EXCEPTION - 718461	[6/4/2021 - G56] - (I.O.) 3, 10 & 15-8N-12E X675449 MYES, WDFD, SLVN 3-8N-12E X671213 MYES, WDFD, SLVN 10-8N-12E X686152 MYES, WDFD, SLVN 15-8N-12E*** COMPL INT (15-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL COMPL INT (10-8N-12E) NCT 0' FNL ,NCT 0' FSL, NCT 330' FWL COMPL INT (3-8N-12E) NCT 0' FSL, NFT 1800' FSL, NCT 330' FWL CALYX ENERGY III, LLC 5/20/2021 *** S/B X686152/716328 MYES, WDFD, SLVN 15-8N-12E; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR;
MEMO	[6/4/2021 - G56] - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDFIED AND HELD UNTIL DISPOSAL; APPROVED BY OCC
SPACING - 671213	[6/3/2021 - G56] - (640)(HOR) 10-8N-12E VAC OTHERS VAC 526241 MSSP, WDFD EST MYES, WDFD, SLVN, OTHER COMPL INT (MYES) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL COMPL INT (SLVN) NCT 330' FB

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.

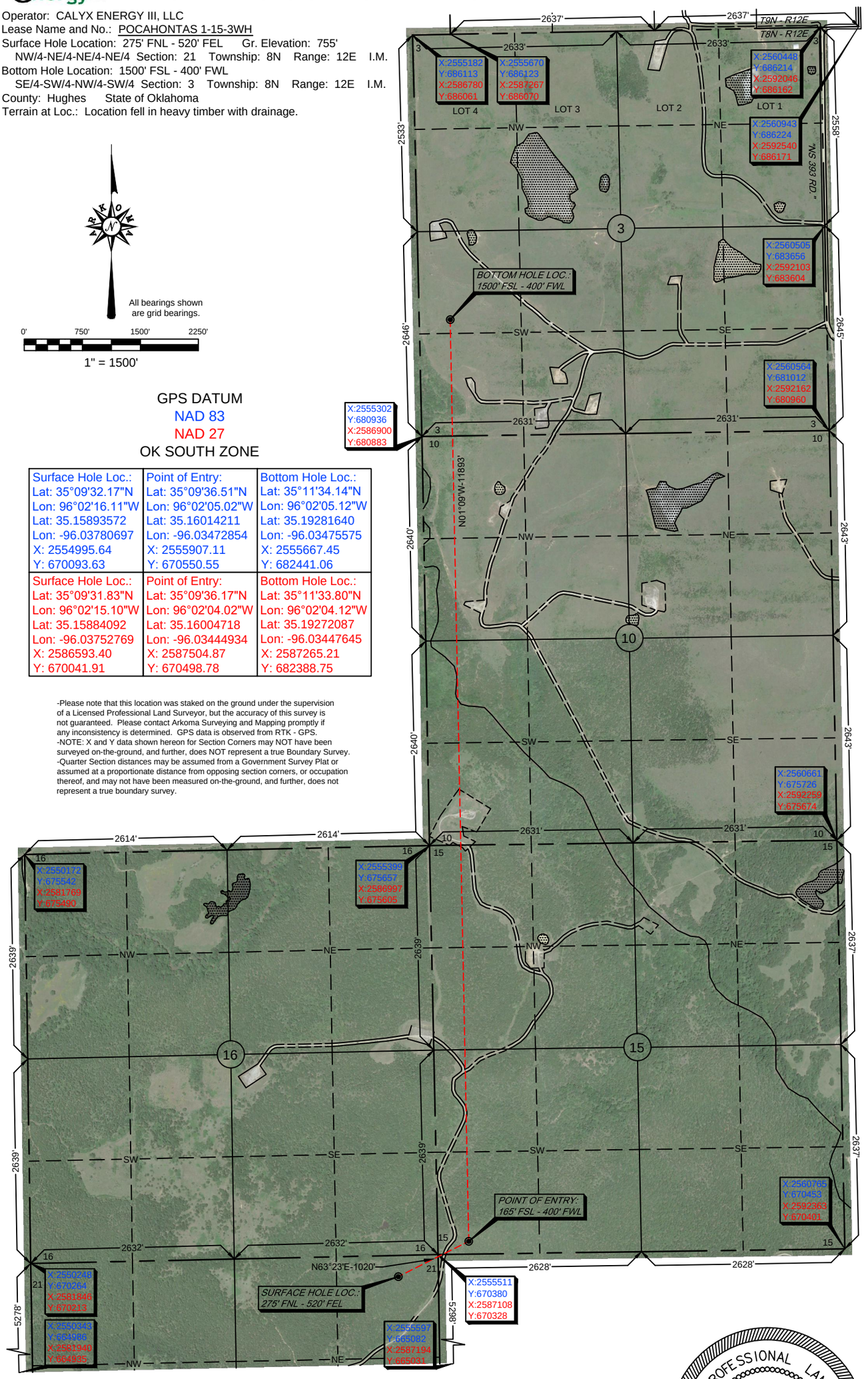
SPACING - 675449	[6/4/2021 - G56] - (640)(HOR) 3-8N-12E VAC 502679 MSSP EXT 671213 MYES, WDFD, SLVN, OTHER COMPL INT (MYES) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL COMPL INT (SLVN) NCT 330' FB (COEXIST WITH SP # 502679 WDFD)
SPACING - 686152	[6/3/2021 - G56] - (640)(HOR) 15-8N-12E VAC 500837 MSSP, WDFD EXT 671213 MYES, WDFD, SLVN, OTHER POE TO BHL (MYES) NLT 600' FB POE TO BHL (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL POE TO BHL (SLVN) NLT 330' FB
SPACING - 716328	[6/3/2021 - G56] - NPT ORDER 686152 CORRECTING PERMITTED WELL LOCATION FOR MYES TO NLT 660' FB
SPACING - 718460	[6/4/2021 - G56] - (I.O.) 3, 10 & 15-8N-12E EST MULTIUNIT HORIZONTAL WELL X675449 MYES, WDFD, SLVN 3-8N-12E X671213 MYES, WDFD, SLVN 10-8N-12E X686152 MYES, WDFD, SLVN 15-8N-12E*** (MYES, SLVN ARE ADJACENT CSS TO WDFD) 10% 3-8N-12E 45% 10-8N-12E 45% 15-8N-12E NO OP NAMED 5/20/2021 *** S/B X686152/716328 MYES, WDFD, SLVN 15-8N-12E; WILL BE CORRECTED AT FINAL HEARING PER ATTORNEY FOR OPERATOR;

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.

Well Location Plat

S.H.L. Sec. 21-8N-12E I.M.
B.H.L. Sec. 3-8N-12E I.M.

Operator: CALYX ENERGY III, LLC
Lease Name and No.: POCAHONTAS 1-15-3WH
Surface Hole Location: 275' FNL - 520' FEL Gr. Elevation: 755'
NW/4-NE/4-NE/4-NE/4 Section: 21 Township: 8N Range: 12E I.M.
Bottom Hole Location: 1500' FSL - 400' FWL
SE/4-SW/4-NW/4-SW/4 Section: 3 Township: 8N Range: 12E I.M.
County: Hughes State of Oklahoma
Terrain at Loc.: Location fell in heavy timber with drainage.



GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:	Point of Entry:	Bottom Hole Loc.:
Lat: 35°09'32.17"N	Lat: 35°09'36.51"N	Lat: 35°11'34.14"N
Lon: 96°02'16.11"W	Lon: 96°02'05.02"W	Lon: 96°02'05.12"W
Lat: 35.15893572	Lat: 35.16014211	Lat: 35.19281640
Lon: -96.03780697	Lon: -96.03472854	Lon: -96.03475575
X: 2554995.64	X: 2555907.11	X: 2555667.45
Y: 670093.63	Y: 670550.55	Y: 682441.06
Surface Hole Loc.:	**Point of Entry:**	**Bottom Hole Loc.:**
Lat: 35°09'31.83"N	Lat: 35°09'36.17"N	Lat: 35°11'33.80"N
Lon: 96°02'15.10"W	Lon: 96°02'04.02"W	Lon: 96°02'04.12"W
Lat: 35.15884092	Lat: 35.16004718	Lat: 35.19272087
Lon: -96.03752769	Lon: -96.03444934	Lon: -96.03447645
X: 2586593.40	X: 2587504.87	X: 2587265.21
Y: 670041.91	Y: 670498.78	Y: 682388.75

-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

Invoice #9375-A-A
Date Staked: 05/11/2021 By: Z.D.
Date Drawn: 05/12/2021 By: R.M.

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.

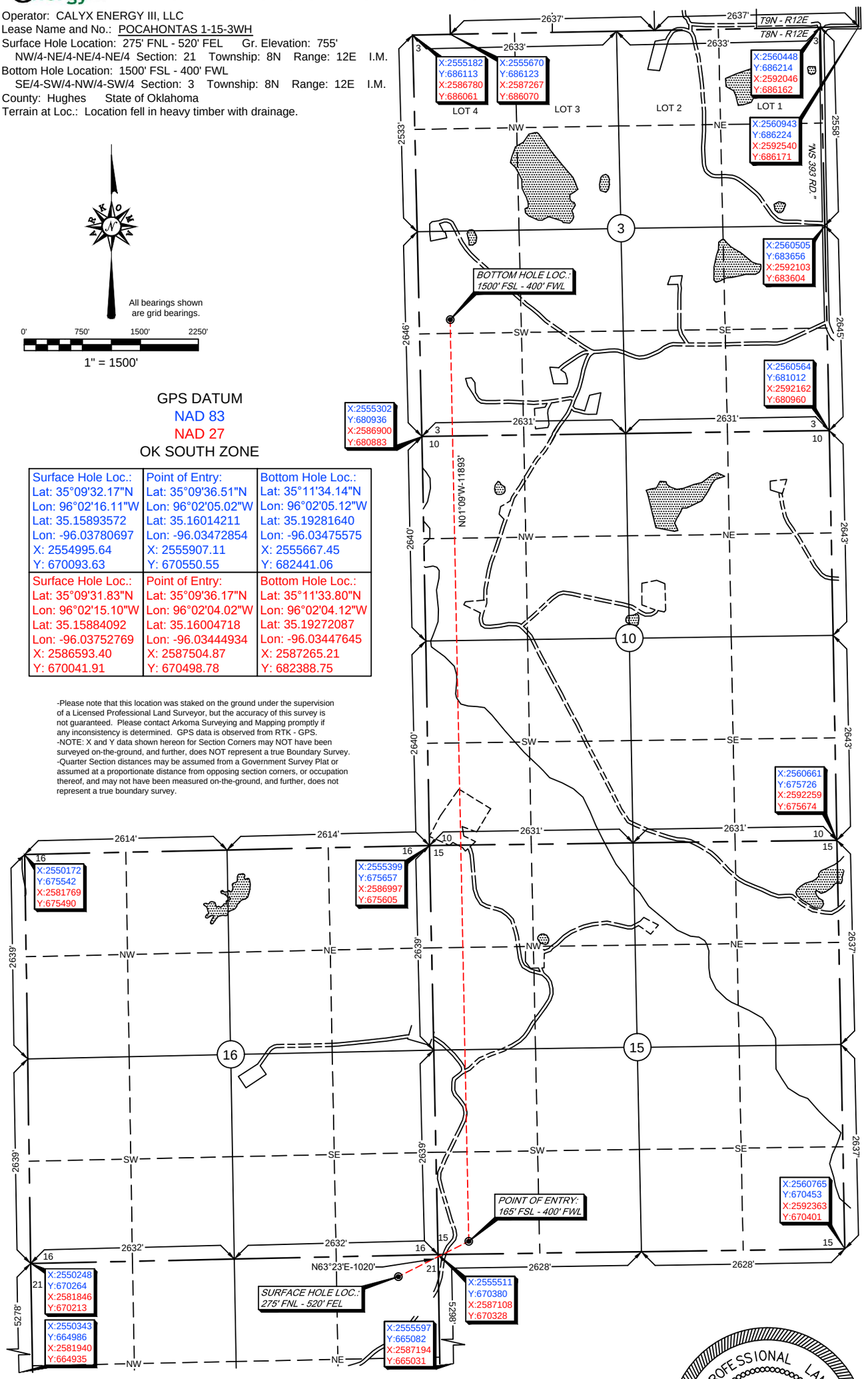
05/13/2021
LANCE G. MATHIS OK LPLS 1664

LICENSED PROFESSIONAL LAND SURVEYOR
LANCE G. MATHIS
1664
OKLAHOMA

Calyx Energy LLC — Well Location Plat

S.H.L. Sec. 21-8N-12E I.M.
B.H.L. Sec. 3-8N-12E I.M.

Operator: CALYX ENERGY III, LLC
Lease Name and No.: POCAHONTAS 1-15-3WH
Surface Hole Location: 275' FNL - 520' FEL Gr. Elevation: 755'
NW/4-NE/4-NE/4-NE/4 Section: 21 Township: 8N Range: 12E I.M.
Bottom Hole Location: 1500' FSL - 400' FWL
SE/4-SW/4-NW/4-SW/4 Section: 3 Township: 8N Range: 12E I.M.
County: Hughes State of Oklahoma
Terrain at Loc.: Location fell in heavy timber with drainage.



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NAD 83
NAD 27
OK SOUTH ZONE

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Lat: 35.15893572	Lat: 35.16014211	Lat: 35.19281640
Lon: -96.03780697	Lon: -96.03472854	Lon: -96.03475575
X: 2554995.64	X: 2555907.11	X: 2555667.45
Y: 670093.63	Y: 670550.55	Y: 682441.06
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Lon: 96°02'15.10"W	Lon: 96°02'04.02"W	Lon: 96°02'04.12"W
Lat: 35.15884092	Lat: 35.16004718	Lat: 35.19272087
Lon: -96.03752769	Lon: -96.03444934	Lon: -96.03447645
X: 2586593.40	X: 2587504.87	X: 2587265.21
Y: 670041.91	Y: 670498.78	Y: 682388.75

-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
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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.

05/13/2021
LANCE G. MATHIS OK LPLS 1664

LICENSED PROFESSIONAL LAND SURVEYOR
LANCE G. MATHIS
1664
OKLAHOMA

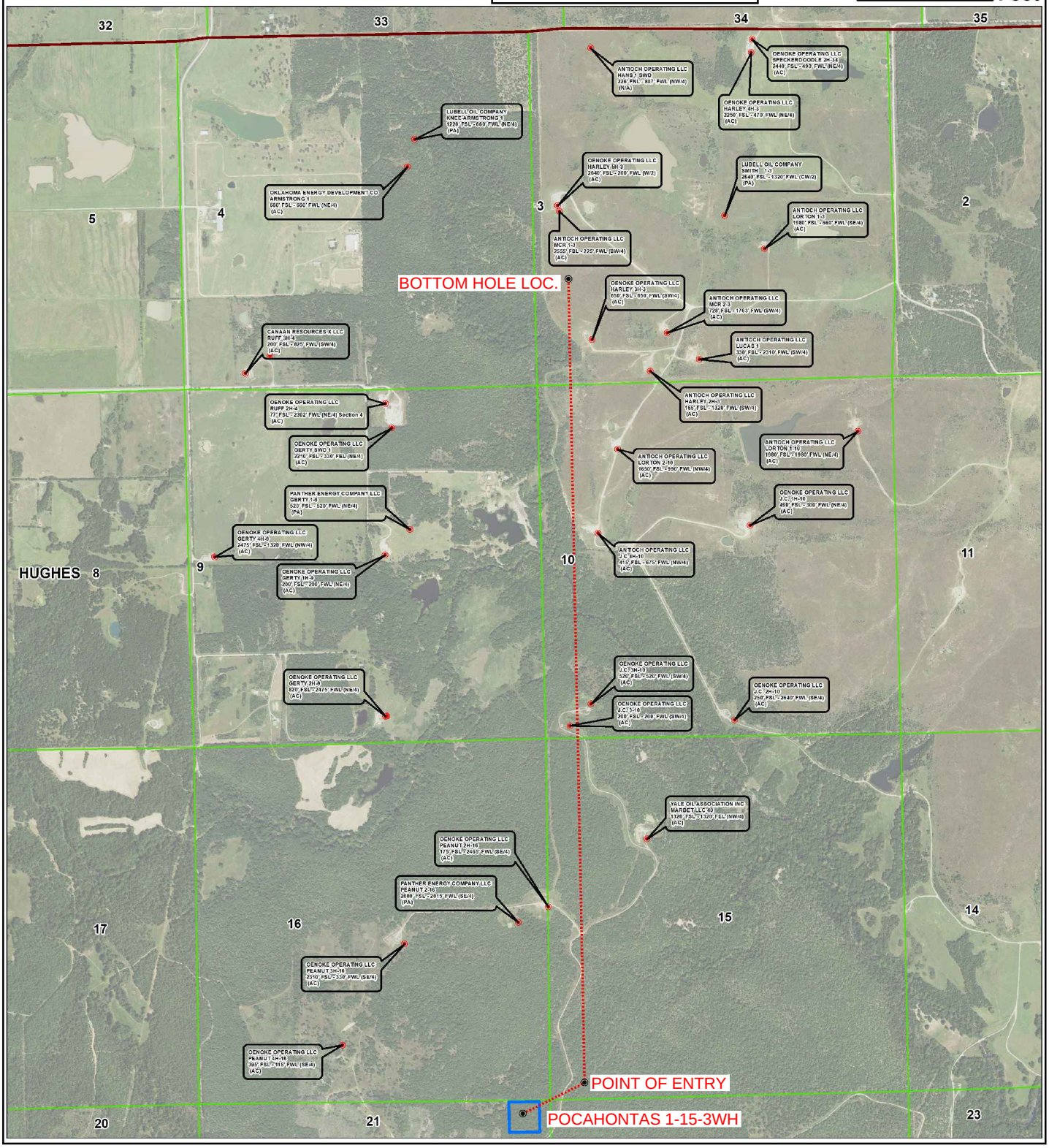
Anti-Collision

Sec. 21-8N-12E I.M.

Operator: CALYX ENERGY III, LLC
Lease Name and No.: POCAHONTAS 1-15-3WH
Surface Hole Location: 275' FNL - 520' FEL
Sec. 21 Twp. 8N Rng. 12E I.M.
Point of Entry: 165' FSL - 400' FWL
Sec. 15 Twp. 8N Rng. 12E I.M.
Bottom Hole Location: 1500' FSL - 400' FWL
Sec. 3 Twp. 8N Rng. 12E I.M.
County: Hughes State of Oklahoma

SHL
LP & BHL
Bore Path
OCC Wells
Pad
Counties
Township-Range
Sections

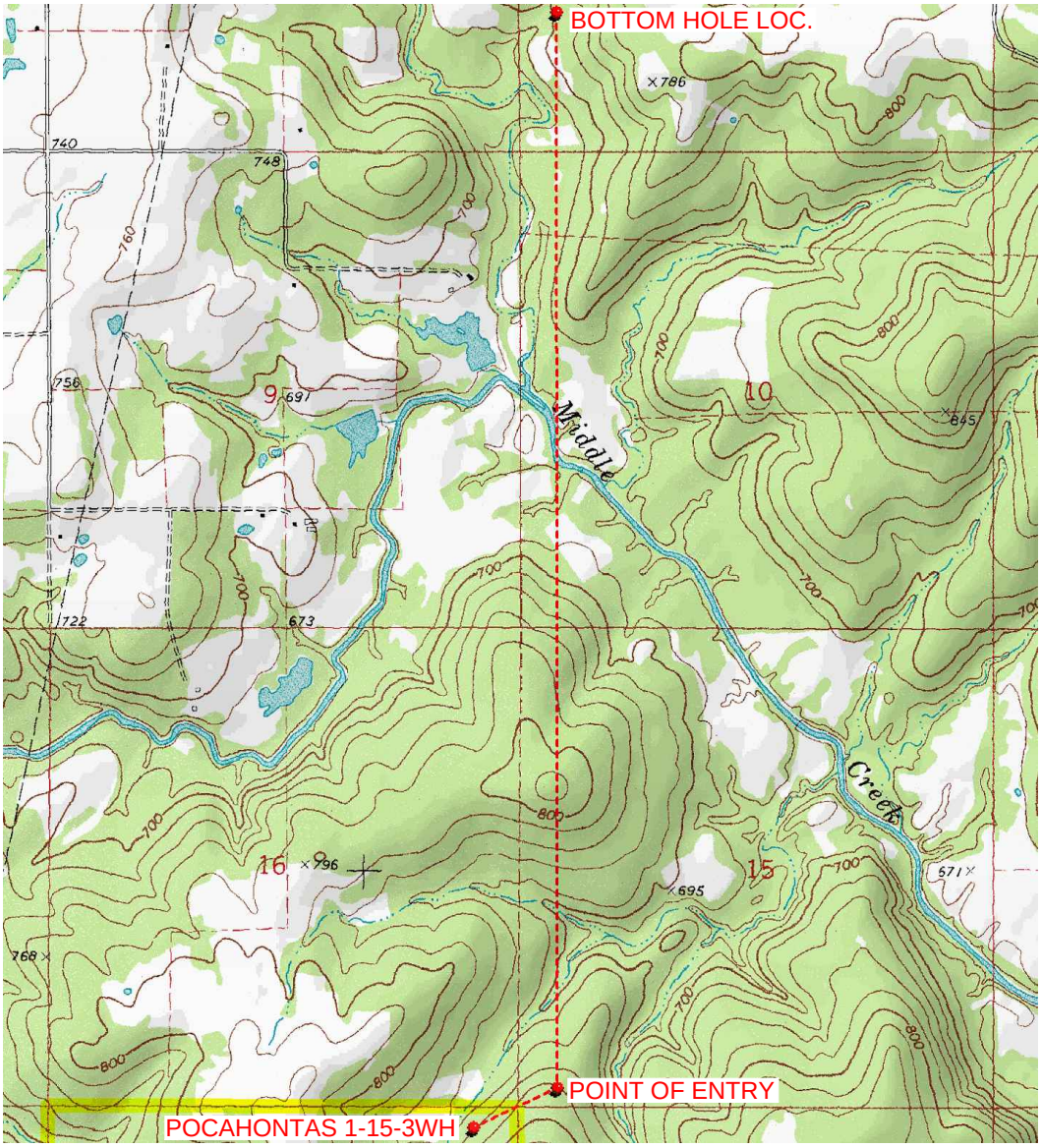
0 1,000 2,000 Feet



Topographic Vicinity Map

Operator: CALYX ENERGY III, LLC
Lease Name and No.: POCAHONTAS 1-15-3WH
Surface Hole Location: 275' FNL - 520' FEL
Sec. 21 Twp. 8N Rng. 12E I.M.
Point of Entry: 165' FSL - 400' FWL
Sec. 15 Twp. 8N Rng. 12E I.M.
Bottom Hole Location: 1500' FSL - 400' FWL
Sec. 3 Twp. 8N Rng. 12E I.M.
County: Hughes State of Oklahoma
Ground Elevation at Surface Hole Location: 755'

Scale 1" = 2000'
Contour Interval: 20'



Provided 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

Date Staked: 05/11/2021

The purpose of this map is to verify the location and elevation as staked on the ground and to show the surrounding Topographic features. The footage shown hereon is only as SCALED onto a U.S.G.S. Topographic Map.

Please note that this location was staked carefully on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed.

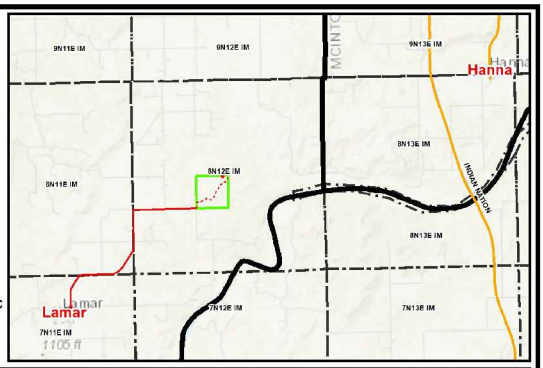
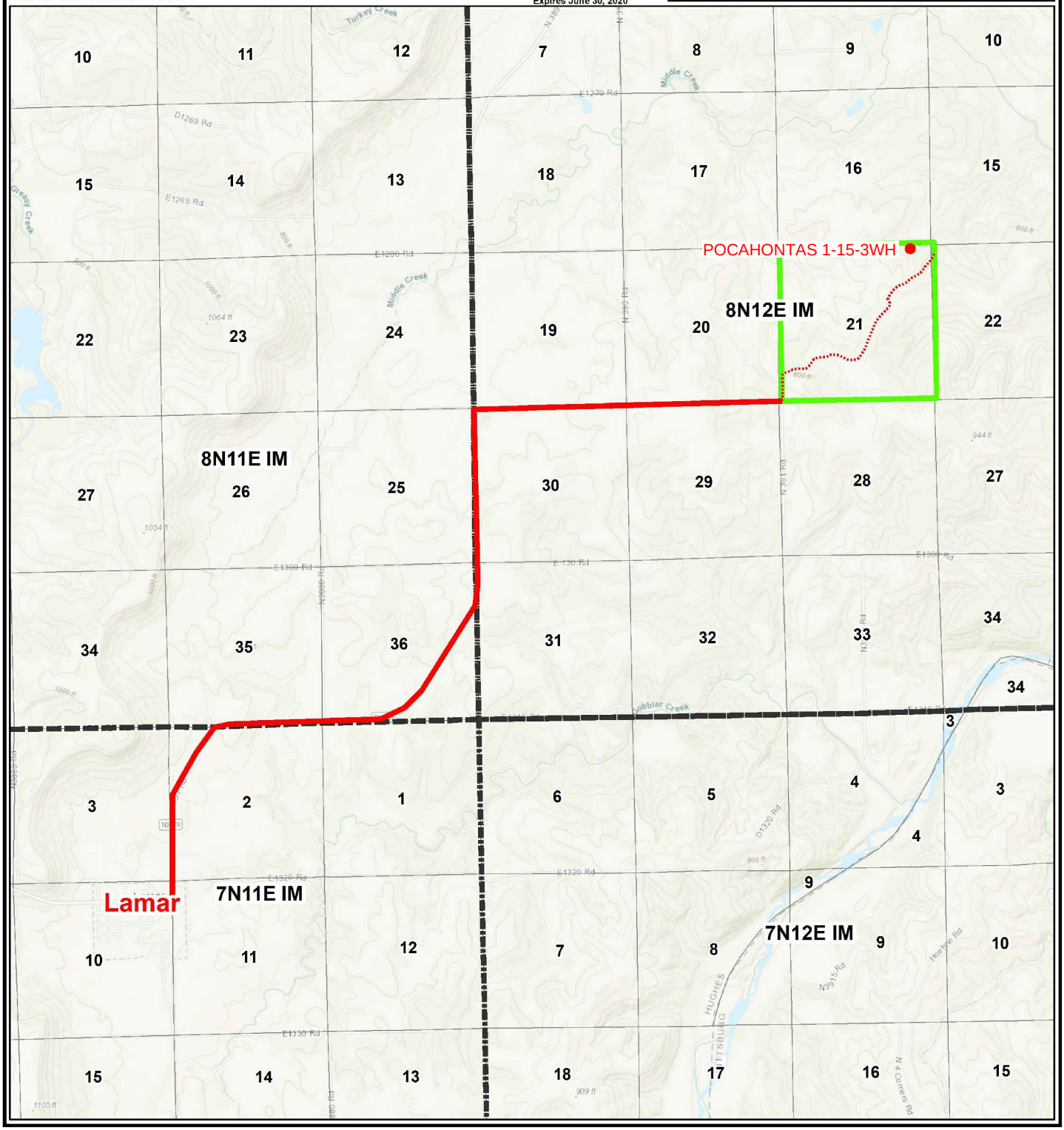
Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined.

County Highway Vicinity Map

Calyx Energy LLC

Job #: 9375-A-A
Operator: CALYX ENERGY III, LLC
Lease Name and No.: POCAHONTAS 1-15-3WH

Accessibility: From the South.
Directions: From the junction of "Jefferson St." &"N387 Rd." in Lamar, OK, go 1.3 miles North on "N387 Rd.", then 1.0 mile East on "E131 Rd.", then 2.3 miles North on "N389 Rd.", then 2.0 miles East on "E129 Rd." to a two track road. Go 1.6 miles on two track road to the NE/4 of Section 21-8N-12E on the NW side of the road.

1 inch = 0.84 mile

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