

API NUMBER: 063 24933 A

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

Approval Date: 06/30/2021
Expiration Date: 12/30/2022

Multi Unit Oil & Gas

Amend reason: REVISED SHL

AMEND PERMIT TO DRILL

WELL LOCATION: Section: 29 Township: 8N Range: 12E County: HUGHES

SPOT LOCATION: SW SW NE NW
FEET FROM QUARTER: FROM NORTH FROM WEST
SECTION LINES: 1058 1525

Lease Name: ARIEL Well No: 3-20-17WH Well will be 1058 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

DONNIE FREEMAN
3236 ASH, BOX 14
LAMAR OK 74850

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

	Name	Code	Depth
1	MAYES	353MYES	4440
2	WOODFORD	319WDFD	4540
3	HUNTON	269HNTN	4590
4	SYLVAN	203SLVN	4591

Spacing Orders: 671026 Location Exception Orders: 715550 Increased Density Orders: 715555
673551
703547 715556
715549

Pending CD Numbers: No Pending

Working interest owners' notified: ***

Special Orders: No Special Orders

Total Depth: 15500 Ground Elevation: 849

Surface Casing: 500

Depth to base of Treatable Water-Bearing FM: 130

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: 21-37683

H. (Other) WBM CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC

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: CLOSED Closed System Means Steel Pits

Category of Pit: C

Liner not required for Category: C

Type of Mud System: WATER BASED

Pit Location is: BED AQUIFER

Chlorides Max: 8000 Average: 5000

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.

MULTI UNIT HOLE 1

Section: 17 Township: 8N Range: 12E Meridian: IM

Total Length: 10230

County: HUGHES

Measured Total Depth: 15500

Spot Location of End Point: NE NE NW NE

True Vertical Depth: 4900

Feet From: NORTH 1/4 Section Line: 165

End Point Location from

Feet From: EAST 1/4 Section Line: 1600

Lease, Unit, or Property Line: 165

NOTES:

Category	Description
DEEP SURFACE CASING	[6/29/2021 - 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	<p>[6/29/2021 - GC2] - OCC 165:10-3-10 REQUIRES:</p> <p>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;</p> <p>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,</p> <p>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</p>
INCREASED DENSITY - 715555	<p>[6/30/2021 - G56] - 17-8N-12E</p> <p>X671026 WDFD</p> <p>2 WELLS</p> <p>CALYX ENERGY III, LLC</p> <p>11/25/2020</p>
INCREASED DENSITY - 715556	<p>[6/30/2021 - G56] - 20-8N-12E</p> <p>X703547 WDFD</p> <p>2 WELLS</p> <p>CALYX ENERGY III, LLC</p> <p>11/25/2020</p>
LOCATION EXCEPTION - 715550	<p>[6/30/2021 - G56] - (I.O.) 17 & 20-8N-12E</p> <p>X671026 MYES, WDFD, HNTN 17-8N-12E</p> <p>X673551 SLVN 17-8N-12E</p> <p>X703547 MYES, WDFD, HNTN, SLVN 20-8N-12E</p> <p>COMPL INT (17-8N-12E) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL</p> <p>COMPL INT (20-8N-12E) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL</p> <p>CALYX ENERGY III, LLC</p> <p>11/25/2020</p>
SPACING - 671026	<p>[6/30/2021 - G56] - (640)(HOR) 17 & 18-8N-12E</p> <p>EST MYES, WDFD, HNTN, OTHER</p> <p>COMPL INT (MYES, HNTN) NLT 660' FB</p> <p>COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL</p> <p>(COEXIST WITH SP # 297893 HNTN)</p>
SPACING - 673551	<p>[6/30/2021 - G56] - (640)(HOR) 17 & 18-8N-12E</p> <p>EST SLVN</p> <p>COMPL INT NLT 330' FB</p>

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SPACING - 703547	[6/30/2021 - G56] - (640)(HOR) 20-8N-12E EXT 671215 MYES, WDFD, HNTN, SLVN, OTHER COMPL INT (MYES, HNTN) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL/FSL, NCT 330' FEL/FWL COMPL INT (SLVN) NCT 330' FB (COEXIST WITH SP # 289836 HNTN, # 303010 HNTN)
SPACING - 715549	[6/30/2021 - G56] - (I.O.) 17 & 20-8N-12E EST MULTIUNIT HORIZONTAL WELL X671026 MYES, WDFD, HNTN 17-8N-12E X673551 SLVN 17-8N-12E X703547 MYES, WDFD, HNTN, SLVN 20-8N-12E (MYES, HNTN, SLVN ARE ADJACENT CSS TO WDFD) 50% 17-8N-12E 50% 20-8N-12E CALYX ENERGY III, LLC 11/25/2020

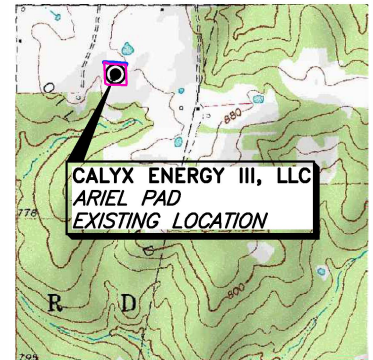
AS-BUILT PAD SITE/PROPOSED PAD
EXTENSION IN A PART OF THE
NE/4-NW/4 SECTION 29, T8N-R12E,
HUGHES COUNTY, OKLAHOMA

NE/4-NW/4
SECTION 29
T 8 N - R 12 E

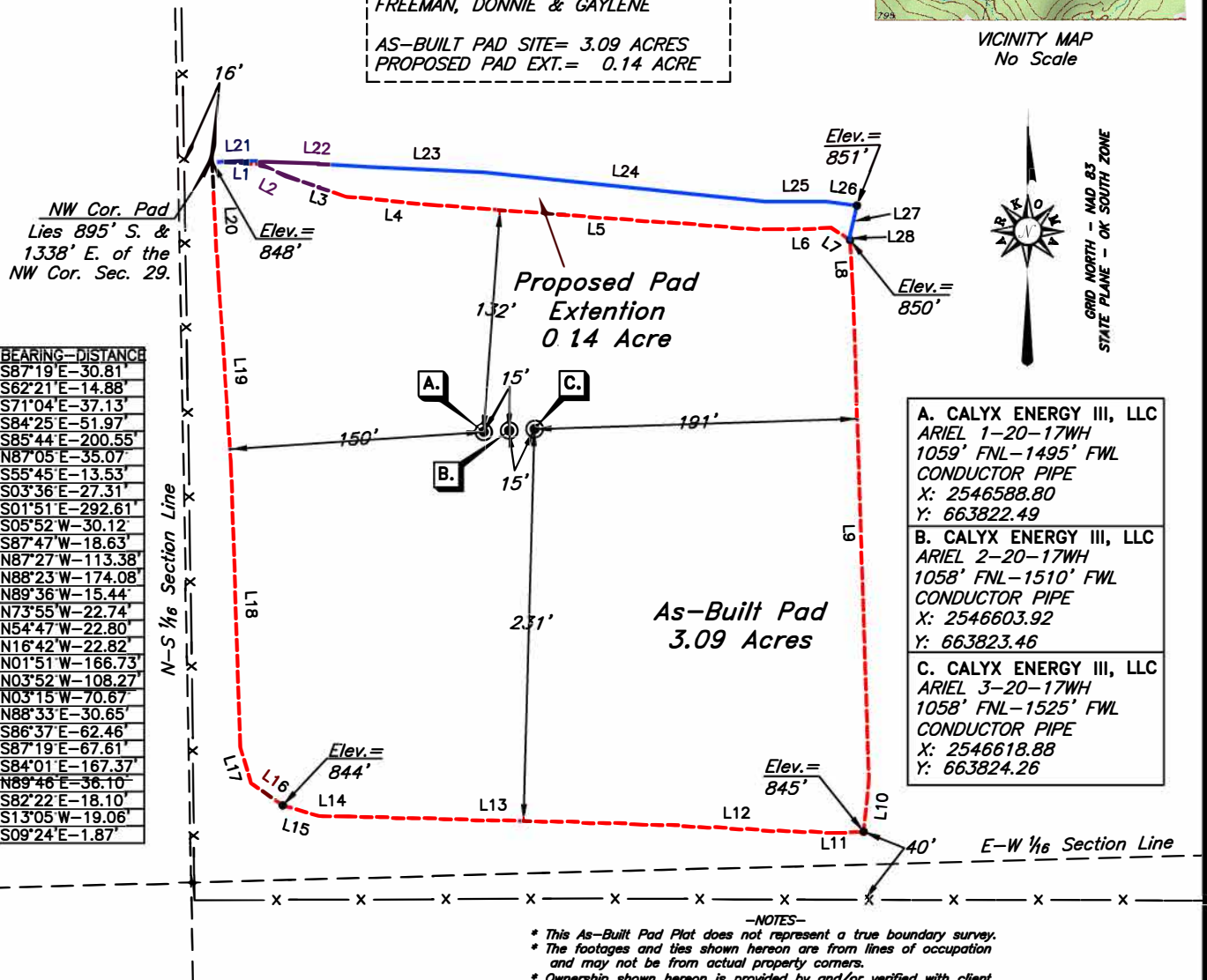
E/2-NW/4
SECTION 29-8N-12E
FREEMAN, DONNIE & GAYLENE

AS-BUILT PAD SITE= 3.09 ACRES
PROPOSED PAD EXT.= 0.14 ACRE

"ARIEL PAD"
AS-BUILT PAD SITE &
PROPOSED PAD EXTENSION



VICINITY MAP
No Scale



CALYX ENERGY III, LLC
Tulsa, Oklahoma

SURVEY & MAPPING BY:

ARKOMA SURVEYING & MAPPING, PLLC

(918)465-5711 P.O. Box 238 C.A. #5348
(918)465-5030 fax Wilburton, OK 74578 EXP. DATE 6-30-2022

SURV. BY: D.W. 07/20/2021		SCALE: 1" = 100'	
DRAWN BY: M.K. 07/21/2021		JOB NO.: 9440-AB	
APPROVED BY: L.G.M.		DRAW. NO.: 9440-AB-PAD	
SHEET 1 OF 1		SHEET SIZE: 8.5" X 11"	
NO.	REVISION DESCRIPTION	DATE	BY