

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

API NUMBER: 063 24948

Approval Date: 08/11/2022
Expiration Date: 02/11/2024

Multi Unit Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 09 Township: 8N Range: 12E County: HUGHES

SPOT LOCATION: SW NW SW NW FEET FROM QUARTER: FROM **NORTH** FROM **WEST**
SECTION LINES: **1900** **210**

Lease Name: **ELSA** Well No: **1-8-20WH** Well will be **210** feet from nearest unit or lease boundary.
Operator Name: **CALYX ENERGY III LLC** Telephone: 9189494224 OTC/OCC Number: 23515 0

CALYX ENERGY III LLC

TULSA, OK 74136-4226

JAMES B WISE
3401 HICKORY STICK ROAD
OKLAHOMA CITY OK 73120

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

Name	Code	Depth
1 MAYES	353MYES	4000
2 WOODFORD	319WDFD	4150
3 HUNTON	269HNTN	4230
4 SYLVAN	203SLVN	4230

Spacing Orders: 673572
671026
703547
673549
673551

Location Exception Orders: **No Exceptions**

Increased Density Orders: 727543
727544
727545

Pending CD Numbers: 202202625
202202626

Working interest owners' notified: ***

Special Orders: **No Special**

Total Depth: 15500 Ground Elevation: 745

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: 22-38485
- H. (Other) PIT 2 - CONCRETE LINED PIT PER OPERATOR REQUEST

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 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: 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 located in a Hydrologically Sensitive Area.

Category of Pit: 1B

Liner required for Category: 1B

Pit Location is: BED AQUIFER

Pit Location Formation: SENORA

MULTI UNIT HOLE 1

Section: 20 Township: 8N Range: 12E Meridian: IM

Total Length: 12344

County: HUGHES

Measured Total Depth: 15500

Spot Location of End Point: NW NE SE SE

True Vertical Depth: 4900

Feet From: **SOUTH** 1/4 Section Line: 1200End Point Location from
Lease, Unit, or Property Line: 400Feet From: **EAST** 1/4 Section Line: 400**NOTES:**

Category	Description
DEEP SURFACE CASING	[8/2/2022 - 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	[8/2/2022 - GC2] - 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 - 727543	[8/10/2022 - G56] - 8-8N-12E X673572 WDFD 1 WELL CALYX ENERGY III, LLC 8/9/2022
INCREASED DENSITY - 727544	[8/10/2022 - G56] - 17-8N-12E X671026 WDFD 1 WELL CALYX ENERGY III, LLC 8/9/2022
INCREASED DENSITY - 727545	[8/10/2022 - G56] - 20-8N-12E X703547 WDFD 1 WELL CALYX ENERGY III, LLC 8/9/2022

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.

PENDING CD - 202202625	<p>[8/10/2022 - G56] - (I.O.) 8, 17 & 20-8N-12E EST MULTIUNIT HORIZONTAL WELL X673572 MYES, WDFD, HNTN, SLVN*** 8-8N-12E X671026 MYES, WDFD, HNTN, SLVN^^ 17-8N-12E X703547 MYES, WDFD, HNTN, SLVN 20-8N-12E (MYES, HNTN, SLVN ARE ADJACENT CSS TO WDFD) 25% 8-8N-12E 50% 17-8N-12E 25% 20-8N-12E NO OP NAMED REC 7/25/2022 (MOORE)</p> <p>*** S/B X673572 MYES, WDFD, HNTN 8-8N-12E; X673549 SLVN 8-8N-12E; WILL BE CORRECTED AT HEARING PER ATTORNEY FOR OPERATOR</p> <p>^^ S/B X671026 MYES, WDFD, HNTN 17-8N-12E; X673551 SLVN 17-8N-12E; WILL BE CORRECT AT HEARING PER ATTORNEY FOR OPERATOR</p>
PENDING CD - 202202626	<p>[8/10/2022 - G56] - (I.O.) 8, 17 & 20-8N-12E X673572 MYES, WDFD, HNTN, SLVN*** 8-8N-12E X671026 MYES, WDFD, HNTN, SLVN^^ 17-8N-12E X703547 MYES, WDFD, HNTN, SLVN 20-8N-12E COMPL INT (8-8N-12E) NCT 1980' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (17-8N-12E) NCT 0' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (20-8N-12E) NCT 0' FNL, NCT 990' FSL, NCT 330' FEL NO OP NAMED REC 7/25/2022 (MOORE)</p> <p>*** S/B X673572 MYES, WDFD, HNTN 8-8N-12E; X673549 SLVN 8-8N-12E; WILL BE CORRECTED AT HEARING PER ATTORNEY FOR OPERATOR</p> <p>^^ S/B X671026 MYES, WDFD, HNTN 17-8N-12E; X673551 SLVN 17-8N-12E; WILL BE CORRECT AT HEARING PER ATTORNEY FOR OPERATOR</p>
SPACING - 671026	<p>[8/10/2022 - G56] - (640)(HOR) 17-8N-12E EST MYES, WDFD, HNTN, OTHER COMPL INT (MYES, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP # 297893 HNTN)</p>
SPACING - 673549	<p>[8/10/2022 - G56] - (640)(HOR) 8-8N-12E EST SLVN COMPL INT NLT 330' FB</p>
SPACING - 673551	<p>[8/10/2022 - G56] - (640)(HOR) 17-8N-12E EST SLVN COMPL INT NLT 330' FB</p>
SPACING - 673572	<p>[8/10/2022 - G56] - (640)(HOR) 8-8N-12E EXT 666244 MYES, WDFD, HNTN, OTHER COMPL INT (MYES, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL</p>
SPACING - 703547	<p>[8/10/2022 - G56] - (640)(HOR) 20-8N-12E EXT 671215 MYES, WDFD, HNTN, SLVN, OTHER COMPL INT (SLVN) NLT 330' FB COMPL INT (MYES, HNTN) NLT 660' FB COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST WITH SP # 289836 HNTN, # 303010 HNTN)</p>

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.