

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

API NUMBER: 063 24950

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** **225**

Lease Name: **ELSA** Well No: **2-9-21WH** Well will be **225** 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	4660
2 WOODFORD	319WDFD	4770

Spacing Orders: 671213 Location Exception Orders: **No Exceptions** Increased Density Orders: **No Density**
676116

Pending CD Numbers: 202202627 Working interest owners' notified: *** Special Orders: **No Special**
202202628
202202632
202202633
202202636

Total Depth: 15500 Ground Elevation: 746 **Surface Casing: 500** Depth to base of Treatable Water-Bearing FM: 40

Deep surface casing has been approved

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

Under Federal Jurisdiction: No
Fresh Water Supply Well Drilled: No
Surface Water used to Drill: Yes

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: 21 Township: 8N Range: 12E Meridian: 1M

Total Length: 12345

County: HUGHES

Measured Total Depth: 15500

Spot Location of End Point: NW NE SW SW

True Vertical Depth: 4900

Feet From: **SOUTH** 1/4 Section Line: 1200

End Point Location from

Feet From: **WEST** 1/4 Section Line: 800

Lease, Unit, or Property Line: 800

NOTES:

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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: OCCWEB.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
PENDING CD - 202202627	[8/11/2022 - G56] - (I.O.) 9, 16 & 21-8N-12E EST MULTIUNIT HORIZONTAL WELL X680036 MYES, WDFD 4-8N-12E X671213 MYES, WDFD 9 & 16-8N-12E (MYES IS ADJACENT CSS TO WDFD) 25% 9-8N-12E 50% 16-8N-12E 25% 21-8N-12E NO OP NAMED REC 7/25/2022 (MOORE)
PENDING CD - 202202628	[8/11/2022 - G56] - (I.O.) 9, 16 & 21-8N-12E X680036 MYES, WDFD 4-8N-12E X671213 MYES, WDFD 9 & 16-8N-12E COMPL INT (9-8N-12E) NCT 1980' FNL, NCT 0' FSL, NCT 330' FWL COMPL INT (16-8N-12E) NCT 0' FNL, NCT 0' FSL, NCT 330' FWL COMPL INT (21-8N-12E) NCT 0' FNL, NCT 990' FSL, NCT 330' FWL NO OP NAMED REC 7/25/2022 (MOORE)
PENDING CD - 202202632	[8/11/2022 - G56] - 9-8N-12E X671213 WDFD 1 WELL*** NO OP NAMED REC 7/25/2022 (MOORE) *** S/B 2 WELLS; MOTION TO REOPEN FILED ADDING ANOTHER WELL PER ATTORNEY FOR OPERATOR;
PENDING CD - 202202633	[8/11/2022 - G56] - 16-8N-12E X671213 WDFD 1 WELL*** NO OP NAMED REC 7/25/2022 (MOORE) *** S/B 2 WELLS; MOTION TO REOPEN FILED ADDING ANOTHER WELL PER ATTORNEY FOR OPERATOR;
PENDING CD - 202202636	[8/11/2022 - G56] - 21-8N-12E X676116 WDFD 1 WELL NO OP NAMED REC 7/25/2022 (MOORE)
SPACING - 671213	[8/11/2022 - G56] - (640)(HOR) 9 & 16-8N-12E VAC 304045 MYES 16-8N-12E VAC 524247 MSSP, WDFD 9-8N-12E EST MYES, WDFD, OTHERS COMPL INT (MYES) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL
SPACING - 676116	[8/11/2022 - G56] - (640)(HOR) 21-8N-12E VAC 530848 MSSP EXT 671213 MYES, WDFD, OTHERS COMPL INT (MYES) NCT 660' FB COMPL INT (WDFD) NCT 165' FNL & FSL, NCT 330' FEL & FWL (COEXIST WITH SP # 530848 WDFD)

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