API NUMBER: 121 24893

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

Approval Date: 04/04/2022
Expiration Date: 10/04/2023

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Section: 06 Township: 7N Range: 13E County: PITTSBURG

SPOT LOCATION: SW NW NW NE FEET FROM QUARTER: FROM **NORTH** FROM **EAST**
SECTION LINES: **350** **2385**

Lease Name: **BIRDIE** **Well No:** **4-31-30WH** **Well will be** **350** **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

STONE MOUNTAIN HUNTING CLUB LLC
33315 S 321ST STREET WEST
BRISTOW OK 74010

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

	Name	Code	Depth
1	WOODFORD	319WDFD	4775

Spacing Orders: 720707 Location Exception Orders: No Exceptions Increased Density Orders: No Density

Pending CD Numbers: 202200747
202200748

Working interest owners' notified: *** Special Orders: No Special

Total Depth: 15500 Ground Elevation: 916 **Surface Casing: 525** Depth to base of Treatable Water-Bearing FM: 240

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: 22-38201
H. (Other) PITS 2 - CONCRETE LINED PIT PER OPERATOR REQUEST

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.

HORIZONTAL HOLE 1

Section: 30	Township: 8N	Range: 13E	Meridian: IM
County: PITTSBURG			
Spot Location of End Point: NE	NW	NE	NE
Feet From: **NORTH**	1/4 Section Line: 165		
Feet From: **EAST**	1/4 Section Line: 880		

Total Length:	10200
Measured Total Depth:	15500
True Vertical Depth:	4900
End Point Location from Lease,Unit, or Property Line:	165

NOTES:

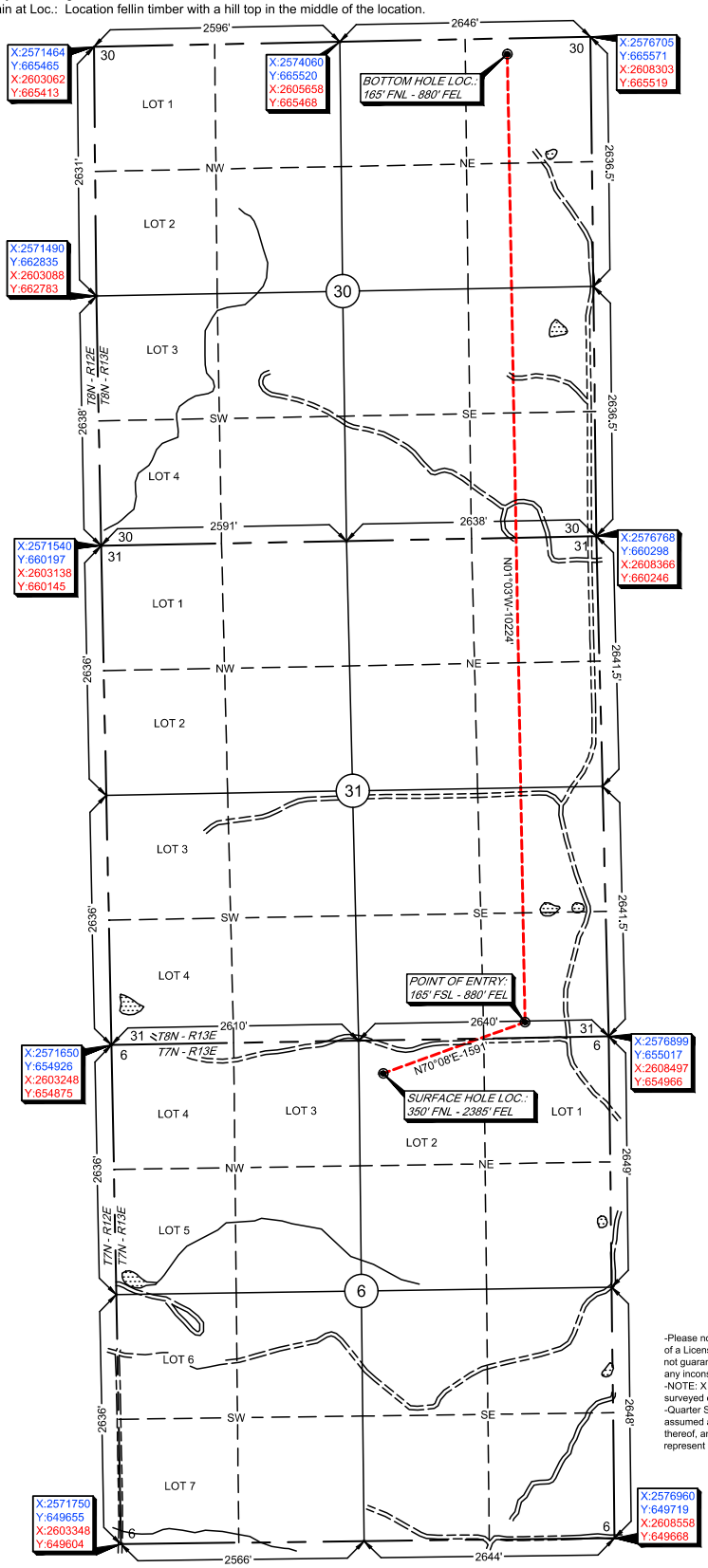
Category	Description
DEEP SURFACE CASING	[3/25/2022 - GC2] - APPROVED; NOTIFY OCC FIELD INSPECTOR IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
HYDRAULIC FRACTURING	[3/25/2022 - GC2] - OCC 165:10-3-10 REQUIRES: 1) NOTICE SHALL BE GIVEN 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
PENDING CD - 202200747	[3/30/2022 - GB1] - (I.O.) 30 & 31-8N-13E X720707 WDFD, OTHERS COMPL INT (30-8N-13E) NCT 165' FNL, NCT 0' FSL, NCT 330' FEL COMPL INT (31-8N-13E) NCT 0' FNL, NCT 165' FSL, NCT 330' FEL NO OP NAMED REC 3/21/22 (MOORE)
PENDING CD - 202200748	[3/30/2022 - GB1] - 30 & 31-8N-13E X720707 WDFD 3 WELLS NO OP NAMED REC 3/21/22 (MOORE)
SPACING - 720707	[3/30/2022 - GB1] - (1280)(HOR) 30 & 31-8N-13E VAC 714384 WDFD, OTHERS 31-8N-13E EST WDFD, OTHERS COMPL INT (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST SP 544574 WDFD, OTHER 30-8N-13E)

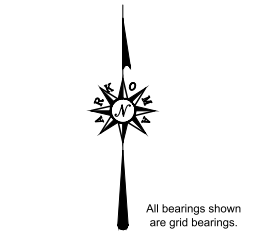
This permit does not address the right of entry or settlement of surface damages. The duration of this permit is 18 MONTHS, except as otherwise provided by Rule 165: 10-3-1. Rule 165: 10-3-4 (c) (7) (e) - The Operator shall give 24 Hours notice by telephone to the appropriate District Office of the Conservation Division as to when Surface Casing will be run.

Well Location Plat

S.H.L. Sec. 6-7N-13E I.M.
B.H.L. Sec. 30-8N-13E I.M.

Operator: CALYX ENERGY III, LLC
Lease Name and No.: BIRDIE 4-31-30WH
Surface Hole Location: 350' FNL - 2385' FEL Gr. Elevation: 916'
SW/4-NW/4-NW/4-NE/4 Section: 6 Township: 7N Range: 13E I.M.
Bottom Hole Location: 165' FNL - 880' FEL
NE/4-NW/4-NE/4-NE/4 Section: 30 Township: 8N Range: 13E I.M.
County: Pittsburg State of Oklahoma
Terrain at Loc.: Location fellin timber with a hill top in the middle of the location.





GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:	
Lat: 35°06'55.39"N	
Lon: 95°58'24.77"W	
Lat: 35.11538718	
Lon: -95.97354665	
X: 2574518.57	
Y: 654625.54	
Surface Hole Loc.:	
Lat: 35°06'55.05"N	
Lon: 95°58'23.77"W	
Lat: 35.11529189	
Lon: -95.97326929	
X: 2606116.27	
Y: 654574.12	
Point of Entry:	
Lat: 35°07'00.45"N	
Lon: 95°58'06.63"W	
Lat: 35.11679041	
Lon: -95.96850705	
X: 2576015.20	
Y: 655166.47	
Point of Entry:	
Lat: 35°07'00.10"N	
Lon: 95°58'05.63"W	
Lat: 35.11669504	
Lon: -95.96822985	
X: 2607612.88	
Y: 655115.01	
Bottom Hole Loc.:	
Lat: 35°08'41.57"N	
Lon: 95°58'06.41"W	
Lat: 35.14488031	
Lon: -95.96844696	
X: 2575827.41	
Y: 665388.88	
Bottom Hole Loc.:	
Lat: 35°08'41.22"N	
Lon: 95°58'05.41"W	
Lat: 35.14478436	
Lon: -95.96816967	
X: 2607425.10	
Y: 665336.94	

-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 #9889-D
Date Staked: 02/16/2022 By: H.S.
Date Drawn: 02/22/2022 By: S.S.

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.

02/23/2022
LANCE G. MATHIS OK LPLS 1664

PROFESSIONAL LAND SURVEYOR
LICENSED
LANCE G. MATHIS
1664
OKLAHOMA