API NUMBER: 063 24821

Oil & Gas

Horizontal Hole

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

Approval Date: 07/12/2018 01/12/2019 **Expiration Date**

PERMIT TO DRILL

WELL LOCATION:	Sec:	11	Twp:	9N	Rge:	9E	County:	HUGHES
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SPOT LOCATION: SW FEET FROM QUARTER: WEST sw lsw sw SOUTH FROM SECTION LINES: 273 218

Lease Name: MAVERICK Well No: 1-11-2CH Well will be 218 feet from nearest unit or lease boundary.

CALYX ENERGY III LLC Operator OTC/OCC Number: Telephone: 9189494224 23515 0 Name:

CALYX ENERGY III LLC 6120 S YALE AVE STE 1480

TULSA. OK 74136-4226 WILLIAM H. LAYCOCK

7611 E. 120 RD

WETUMKA OK 74883

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	3600	6	
2	WOODFORD	3900	7	
3			8	
4			9	
5			10	
Spacing Orders:	No Spacing	Location Exception Orders:		Increased Density Orders:

Pending CD Numbers: 201803091 Special Orders:

201803092

Total Depth: 14170 Ground Elevation: 749 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 240

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

PIT 1 INFORMATION Approved Method for disposal of Drilling Fluids:

Type of Pit System: ON SITE A. Evaporation/dewater and backfilling of reserve pit. B. Solidification of pit contents.

Type of Mud System: AIR

Is depth to top of ground water greater than 10ft below base of pit? Y F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: Within 1 mile of municipal water well? N

H. SEE MEMO

Wellhead Protection Area?

is located in a Hydrologically Sensitive Area.

Category of Pit: 4

Liner not required for Category: 4

Pit Location is ALLUVIAL

Pit Location Formation: ALLUVIUM

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

HORIZONTAL HOLE 1

Sec 02 Twp 9N Rge 9E County HUGHES

Spot Location of End Point: N2 NW NW NW Feet From: NORTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 3175 Radius of Turn: 477

Direction: 1

Total Length: 10246

Measured Total Depth: 14170

True Vertical Depth: 3900

End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Category Description

DEEP SURFACE CASING 7/12/2018 - G57 - 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 7/3/2018 - G71 - OCC 165:10-3-10 REQUIRES:

1) PRIOR TO COMMENCEMENT OF HYDRAULIC FRACTURING OPERATIONS FOR HORIZONTAL WELLS, NOTICE GIVEN FIVE BUSINESS DAYS IN ADVANCE TO OFFSET OPERATORS WITH WELLS COMPLETED IN THE SAME COMMON SOURCE OF SUPPLY WITHIN 1/2 MILE:

2) WITH NOTICE ALSO GIVEN 48 HOURS IN ADVANCE OF HYDRAULIC FRACTURING ALL WELLS TO BOTH THE OCC CENTRAL OFFICE AND LOCAL DISTRICT OFFICES, USING THE

"FRAC NOTICE FORM" FOUND AT THE FOLLOWING LINK:

OCCEWEB.COM/OG/OGFORMS.HTML; AND,

3) THE CHEMICAL DISCLOSURE OF HYDRAULIC FRACTURING INGREDIENTS FOR ALL WELLS TO BE REPORTED TO FRACFOCUS WITHIN 60 DAYS AFTER THE CONCLUSION THE HYDRAULIC FRACTURING OPERATIONS, USING THE FOLLOWING LINK: FRACFOCUS.ORG

MEMO 7/3/2018 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - LITTLE WEWOKA CREEK),

WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDFIED AND HELD UNTIL DISPOSAL

APPROVED BY OCC

PENDING CD - 201803091 7/9/2018 - G57 - (1280)(HOR) 2 & 11-9N-9E

EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB

POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

REC 5-8-2018 (DUNN)

Category

Description

PENDING CD - 201803092

7/9/2018 - G57 - (I.O.) 2 & 11-9N-9E X201803091 MSSP, WDFD COMPL. INT. (11-9N-9E) NCT 165' FSL, NCT 330' FWL COMPL. INT. (2-9N-9E) NCT 165' FNL, NCT 330' FWL CALYX ENERGY III, LLC. REC 5-8-2018 (DUNN)

Calyx Well Location Plat

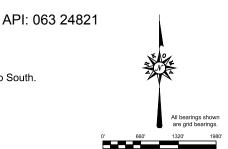
S.H.L. Sec. 11-9N-9E I.M. B.H.L. Sec. 2-9N-9E I.M.

Operator: CALYX ENERGY III, LLC

Lease Name and No.: MAVERICK 1-11-2CH Footage: 273' FSL - 218' FWL Gr. Elevation: 749'

Section: 11 Township: 9N Range: 9E I.M. County: Hughes State of Oklahoma

Terrain at Loc.: Location fell in timber that slopes downhill from North to South.



1" = 1320'



Surface Hole Loc.: Lat: 35°15'42.18"N Lon: 96°20'03.53"W X: 2465761.91 Y: 705907.47

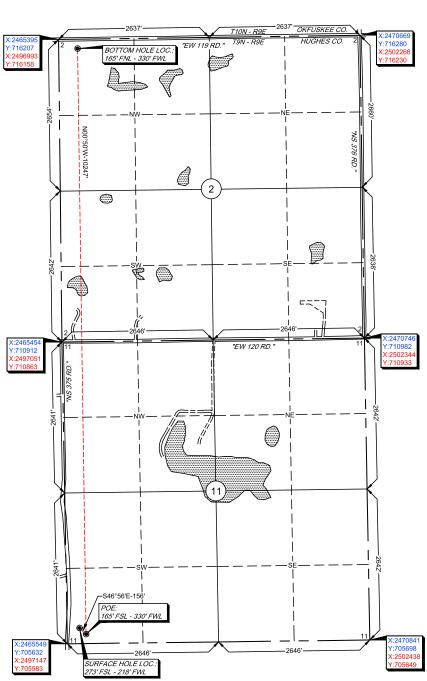
Surface Hole Loc.: Lat: 35°15'41.88"N Lon: 96°20'02.50"W X: 2497359.52 Y: 705858.40

POE: Lat: 35°15'41.11"N Lon: 96°20'02.17"W X: 2465876.16 Y: 705800.70

POE: Lat: 35°15'40.81"N Lon: 96°20'01.14"W X: 2497473.76 Y: 705751.63

Bottom Hole Loc. Lat: 35°17'22.46"N Lon: 96°20'01.93"W X: 2465727.06 Y: 716046.70

Bottom Hole Loc.: Lat: 35°17'22.15"N Lon: 96°20'00.90"W X: 2497324.57 Y: 715997.39



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, 2020

Invoice #7904-A Date Staked: 06/18/18 Date Drawn: 06/20/18

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.

LANCE G. MATHIS

06/26/18 **OK LPLS 1664**

