API NUMBER: 107 23612 **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

03/13/2019 Approval Date: Expiration Date: 09/13/2020

Horizontal Hole Multi Unit

Oil & Gas

located in a Hydrologically Sensitive Area.

ALLUVIUM

Mud System Change to Water-Based or Oil-Based Mud Requires an Amended Intent (Form 1000).

Category of Pit: 4

Liner not required for Category: 4 Pit Location is ALLUVIAL

				PERMIT TO	<u>DRILL</u>			
WELL LOCATION: SPOT LOCATION:  Lease Name: 1	SE NE NE	Rge: 12E  SE FEET FROM SECTION L	County: OKFO M QUARTER: FROM JINES: Well No:	USKEE SOUTH FROM 2075 1-17-5CH	EAST 198	Well will be	198 feet from nearest	unit or lease boundary.
Operator	CALYX ENERGY III LLC		Well No.	Telephone:	9189494224		OTC/OCC Number:	23515 0
Name:							5 · 5 / 5 5 5 · 1 · 1 · 1 · 1 · 1 · 1 · 1 · 1 ·	200.0
CALYX ENERGY III LLC 6120 S YALE AVE STE 1480					JACQUE PO BOX	ELINE SHAME	L	
TULSA,		OK 74136-	-4226		WELEET		OK 74	380
1 N 2 V 3 4 5 Spacing Orders:	(Permit Valid for Lis ame IISSISSIPPIAN /OODFORD 689880 691166		Depth 3350 3800  Location Exception		Name 6 7 8 9 10	Inc	Depth  creased Density Orders:	
Pending CD Number	554633 ers: 201900138 201900137	•				Sp	pecial Orders:	
Total Depth: 16	464 Ground Ele	vation: 644	Surface	Casing: 440		Depth t	to base of Treatable Water-E	Bearing FM: 190
Under Federal Jurisdiction: No Fresh Water S				r Supply Well Drille	d: No		Surface Water use	ed to Drill: Yes
PIT 1 INFORMATION				A	Approved Method for disposal of Drilling Fluids:			
Type of Pit System: ON SITE					A. Evaporation/dewater and backfilling of reserve pit.			
Type of Mud System: AIR					B. Solidification of pit contents.			
Is depth to top of ground water greater than 10ft below base of pit? Y Within 1 mile of municipal water well? Y Wellhead Protection Area? Y					F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649  H. SEE MEMO			

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?

Wellhead Protection Area? Y

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 05 Twp 10N Rge 12E County OKFUSKEE

Spot Location of End Point: NW NE NE NE Feet From: NORTH 1/4 Section Line: 165
Feet From: EAST 1/4 Section Line: 400

Depth of Deviation: 3068 Radius of Turn: 382

Direction: 359

Total Length: 12796

Measured Total Depth: 16464

True Vertical Depth: 3850

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

Notes:

**MEMO** 

Category

Description

HYDRAULIC FRACTURING

2/20/2019 - 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

2/20/2019 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS (REQUIRED - NORTH CANADIAN RIVER), WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDFIED AND HELD UNTIL

DISPOSAL APPROVED BY OCC

PENDING CD - 201900137 3/11/2019 - G58 - 5, 8, & 17-10N-12E

EST MULTIUNIT HORIZONTAL WELL

X554633 MSSP, WDFD X691166 MSSP, WDFD X689880 MSSP, WDFD

(WDFD IS ADJACENT CSS TO MSSP)

20% 17-10N-12E 40% 8-10N-12E 40% 5-10N-12E NO OP. NAMED REC 2/4/2019 (DUNN)

This permit does not address the right of entry or settlement of surface damages. The duration of this permit is SIX 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.

107 23612 HALPERT 1-17-5CH

Category Description

PENDING CD - 201900138 3/11/2019 - G58 - 5, 8, & 17-10N-12E

X554633 MSSP, WDFD X691166 MSSP, WDFD X689880 MSSP, WDFD

COMPL. INT. 17-10N-12E NCT 660' FNL, NCT 0' FNL, NCT 330' FEL COMPL. INT. 8-10N-12E NCT 0' FSL, NCT 0' FNL, NCT 330' FEL COMPL. INT. 5-10N-12E NCT 0' FSL, NCT 165' FNL, NCT 330' FEL

NO OP. NAMED REC 2/4/2019 (DUNN)

PUBLIC WATER SUPPLY WELLS 2/20/2019 - G71 - MCINTOSH CO RWD #13 - 3 PWS/WPA, SW/4 17-10N-12E

SPACING - 554633 3/11/2019 - G58 - (640) 5-10N-12E EST MSSP, WDFD, OTHERS

SPACING - 689880 3/11/2019 - G58 - (640)(HOR) 17-10N-12E

EST MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NLT 660' FB

COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

SPACING - 691166 3/11/2019 - G58 - (640)(HOR) 8-10N-12E

EST MSSP, WDFD, OTHERS COMPL. INT. (MSSP) NLT 660' FB

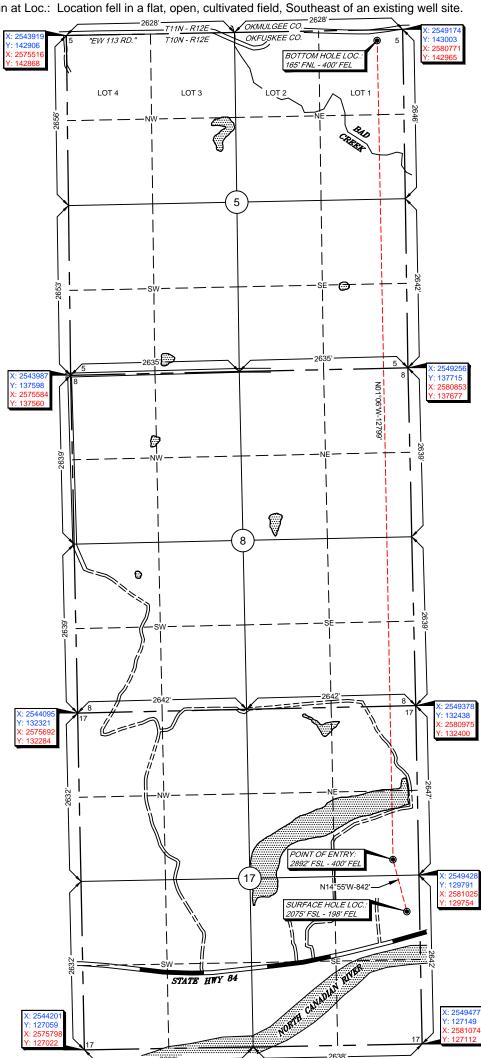
COMPL. INT. (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL

S.H.L. Sec. 17-10N-12E I.M. B.H.L. Sec. 5-10N-12E I.M.

Operator: CALYX ENERGY III, LLC Lease Name and No.: HALPERT 1-17-5CH 107-23612 Footage: 2075' FSL - 198' FEL Gr. Elevation: 664' Township: 10N Range: 12E I.M. Section: 17

State of Oklahoma County: Okfuskee

Terrain at Loc.: Location fell in a flat, open, cultivated field, Southeast of an existing well site.



1" = 1500' **GPS DATUM NAD 83** NAD 27 **OK NORTH ZONE** 

Surface Hole Loc.: Lat: 35°20'20.33"N Lon: 96°03'10.36"W Lat: 35.33898002 Lon: -96.05287820 X: 2549239.86 Y: 129220.24

Surface Hole Loc. Lat: 35°20'19.97"N Lon: 96°03'09.36"W Lat: 35.33888183 Lon: -96.05259921 X: 2580837.33 Y: 129182.99

Point of Entry: Lat: 35°20'28.42"N Lon: 96°03'12.78"V Lat: 35.34122708 Lon: -96.05355053 X: 2549022.96 Y: 130034.02

Point of Entry: Lat: 35°20'28.06"N Lon: 96°03'11.78"W Lat: 35.34112886 Lon: -96.05327154 X: 2580620.42 129996.74

Bottom Hole Loc. Lat: 35°22'34.99"N Lon: 96°03'12.66"W Lat: 35.37638644 Lon: -96.05351613 X: 2548776.64 Y: 142830.20

Bottom Hole Loc.: Lat: 35°22'34.63"N Lon: 96°03'11.65"W Lat: 35.37628730 Lon: -96.05323749 X: 2580373.98 142792.24

of a Licensed Professional La not guaranteed. Please contain any inconsistency is determin -NOTE: X and Y data shown I surveyed on-the-ground, and -Quarter Section distances may be a constant of the surveyed on-the-ground. NOT represent a true Boundary Survey
ed from a Government Survey Plat or
opposing section corners, or occupatior
ton-the-ground, and further, does not

## 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 #8433-A-A

Date Staked: 01/24/19 By: H.S. Date Drawn: 01/28/19 By: C.K. Rev. Lease Name: 02/01/19 By By: R.S.

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.



02/01/19

