API NUMBER: 107 23614 **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

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).

Oil & Gas

	1	PERMIT TO DRILL		
SPOT LOCATION: SE NE NE Lease Name: HALPERT	SECTION LINES: 2	SOUTH FROM EAST 2030 199	ell will be 199 feet from nearest unit or lease boundary.	
Operator CALYX ENERGY III LL Name:	.c	Telephone: 9189494224	OTC/OCC Number: 23515 0	
CALYX ENERGY III LLC 6120 S YALE AVE STE 1480 TULSA,	OK 74136-4226	JACQUELINE PO BOX 277 WELEETKA	SHAMEL OK 74880	
Name 1 MISSISSIPPIAN 2 WOODFORD 3 4	Listed Formations Only): Depth 3350 3800	Name 6 7 8 9	Depth	
5 Spacing Orders: 689076 691158 691813	Location Exception O	10 orders:	Increased Density Orders: 692438	
Pending CD Numbers: 201900147 201900146			Special Orders:	
Total Depth: 15738 Ground	Elevation: 663 Surface C	asing: 440	Depth to base of Treatable Water-Bearing FM: 190	
Under Federal Jurisdiction: No PIT 1 INFORMATION	Fresh Water S	Supply Well Drilled: No Approved Method for dispo	Surface Water used to Drill: Yes sal 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 conte	ents.	
Is depth to top of ground water greater than Within 1 mile of municipal water well? Y Wellhead Protection Area? Y		F. Haul to Commercial soi 551649 H. SEE MEMO	I farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No:	
Pit is located in a Hydrologically Sen	sitive Area.			

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 28 Twp 10N Rge 12E County OKFUSKEE

Spot Location of End Point: SE SW SW SW Feet From: SOUTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 400

Depth of Deviation: 3068 Radius of Turn: 382

Direction: 178

Total Length: 12070

Measured Total Depth: 15738

True Vertical Depth: 3850

End Point Location from Lease,
Unit, or Property Line: 199

Notes:

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

INCREASED DENSITY - 692438 3/12/2019 - G58 - 16-10N-12E

X689076 MSSP

1 WELL

CALYX ENERGY III, LLC

3/5/2019

MEMO 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

Category Description

PENDING CD - 201900146 3/12/2019 - G58 - (I.O.) 16, 21, & 28-10N-12E

EST MULTIUNIT HORIZONTAL WELL

X689076 MSSP, WDFD X691158 MSSP, WDFD X691813 MSSP, WDFD

(WDFD IS ADJACENT CSS TO MSSP)

20% 16-10N-12E 40% 21-10N-12E 40% 28-10N-12E NO OP. NAMED REC 2/4/2019 (DUNN)

PENDING CD - 201900147 3/12/2019 - G58 - (I.O.) 16, 21, & 28-10N-12E

X689076 MSSP, WDFD X691158 MSSP, WDFD X691813 MSSP, WDFD

COMPL. INT. 16-10N-12E NFT 660' FSL, NCT 0' FSL, NCT 330' FWL COMPL. INT. 21-10N-12E NCT 0' FSL, NCT 0' FNL, NCT 330' FWL COMPL. INT. 28-10N-12E NCT 0' FNL, NCT 165' FSL, NCT 330' FWL

NO OP. NAMED REC 2/15/2019 (DUNN)

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

SPACING - 689076 3/12/2019 - G58 - (640)(HOR) 16-10N-12E

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

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

SPACING - 691158 3/12/2019 - G58 - (640)(HOR) 21-10N-12E

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

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

SPACING - 691813 3/12/2019 - G58 - (640)(HOR) 28-10N-12E

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

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

