API NUMBER: 091 21800 Α **OKLAHOMA CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION** P.O. BOX 52000 **OKLAHOMA CITY, OK 73152-2000** (Rule 165:10-3-1)

Approval Date: 06/13/2018 12/13/2018 **Expiration Date**

Well will be 320 feet from nearest unit or lease boundary.

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE HOLE FOOTAGES

AMEND PERMIT TO DRILL

Lease Name: (OSCAR I							W	ell No:	320 1-17-20W	/H	324
							SECTION LINE	ES:		320		324
SPOT LOCATION:	NW	NW	/ N	W	NW		FEET FROM C	QUARTER:	FROM	NORTH	FROM	WEST
WELL LOCATION:	Sec:	17	Twp:	8N	Rge	: 13E	•	County	: MCII	NTOSH		

OTC/OCC Number: Telephone: 9189494224 23515 0

CALYX ENERGY III LLC

6120 S YALE AVE STE 1480

Operator

Name:

TULSA. OK 74136-4226

CALYX ENERGY III LLC

MIDDLE CREEK, LLC.

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

2798 N. 394

DUSTIN OK 74839

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

	Name	Depth		Name	Depth
1	MISSISSIPPIAN	4500	6		
2	MAYES	4675	7		
3	WOODFORD	4775	8		
4	HUNTON	4840	9		
5			10		
Spacing Orders:	671800	Location Exception Orders:	677093		Increased Density Orders:
. 0	528400	•	•		
	677186				
	<u> </u>				

Pending CD Numbers: Special Orders:

Total Depth: 14725 Ground Elevation: 767 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 220

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

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?

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).

B. Solidification of pit contents.

F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No:

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? 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

HORIZONTAL HOLE 1

Sec 20 Twp 8N Rge 13E County MCINTOSH

Spot Location of End Point: S2 SW SW SW Feet From: SOUTH 1/4 Section Line: 165
Feet From: WEST 1/4 Section Line: 330

Depth of Deviation: 3742 Radius of Turn: 382

Direction: 181

Total Length: 10382

Measured Total Depth: 14725

True Vertical Depth: 5016

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

Notes:

Category Description

DEEP SURFACE CASING 6/6/2018 - G71 - 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 6/6/2018 - 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

LOCATION EXCEPTION - 677093 6/7/2018 - G57 - (I.O.) 17 & 20-8N-13E

X528400 MSSP, WDFD, HNTN 17-8N-13E X671800 MYES, WDFD, HNTN 20-8N-13E

COMPL. INT. (17-8N-13E) NCT 165' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (20-8N-13E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL

CALYX ENERGY III, LLC.

5-1-2018

MEMO 6/6/2018 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST.

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

APPROVED BY OCC

Category Description

SPACING - 528400 6/7/2018 - G57 - (640) 17-8N-13E

VAC OTHERS EXT 507398 MSSP EXT 515955 WDFD, HNTN

EXT OTHERS

SPACING - 671800 6/7/2018 - G57 - (640)(HOR) 20-8N-13E

EST MYES, WDFD, HNTN

POE TO BHL (MYES, HNTN) NLT 660' FB

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

SPACING - 677186 6/7/2018 - G57 - (I.O.) 17 & 20-8N-13E

X528400 MSSP, WDFD, HNTN 17-8N-13E X671800 MYES, WDFD, HNTN 20-8N-13E

(MSSP, MYES, HNTN ARE ADJACENT COMMON SOURCES OF SUPPLY TO THE WDFD)

50% 17-8N-13E 50% 20-8N-13E

CALYX ENERGY III, LLC.

5-2-2018

