API NUMBER: 063 24818 B

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

Approval Date: 06/27/2018
Expiration Date: 12/27/2018

Horizontal Hole Oil & Gas

Amend reason: CHANGE WELL NAME

Category of Pit: 4

Liner not required for Category: 4

Pit Location is BED AQUIFER

Pit Location Formation: WEWOKA

AMEND PERMIT TO DRILL

| WELL LOCATION: Sec: 18 Twp: 9N | Rge: 10E County: HU | GHES | | |
|--|----------------------------|----------------------------|---|--|
| SPOT LOCATION: SW SW NW | NW FEET FROM QUARTER: FROM | NORTH FROM WEST | | |
| Lease Name: THUNDER | Well No: | 1263 182 1-18-6MH | Well will be 182 feet from nearest unit or lease boundary. | |
| Operator CALYX ENERGY III LLC | | | , | |
| Name: | | Telephone: 9189494224 | OTC/OCC Number: 23515 0 | |
| CALYX ENERGY III LLC | | | | |
| 6120 S YALE AVE STE 1480 | | | RD V. WILLIAMS & LORI V. WILLIAMS | |
| TULSA, | OK 74136-4226 | 2151 N WETU | N. 377 RD IMKA OK 74883 | |
| | | | | |
| Formation(s) (Permit Valid for Li | sted Formations Only): | Name | Depth | |
| 1 MISSISSIPPIAN | 3600 | 6 | | |
| 2 WOODFORD | 3875 | 7 | | |
| 3 | | 8 | | |
| 4 | | 9 | | |
| 5 | | 10 | | |
| Spacing Orders: 678867 678869 | Location Exception | n Orders: | Increased Density Orders: | |
| Pending CD Numbers: 201804487 | _ | _ | Special Orders: | |
| 201804488 | | | | |
| 201804489 | | | | |
| 201804486 | | | | |
| Total Depth: 15250 Ground Ele | evation: 853 Surface | Casing: 1500 | Depth to base of Treatable Water-Bearing FM: 140 | |
| Under Federal Jurisdiction: No | Fresh Wat | er Supply Well Drilled: No | Surface Water used to Drill: Yes | |
| PIT 1 INFORMATION | | Approved Method | d for disposal of Drilling Fluids: | |
| Type of Pit System: ON SITE | | A. Evaporation/d | A. Evaporation/dewater and backfilling of reserve pit. | |
| Type of Mud System: AIR | | B. Solidification of | of pit contents. | |
| Is depth to top of ground water greater than 10 Within 1 mile of municipal water well? | Oft below base of pit? Y | F. Haul to Comm 551649 | nercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: | |
| Wellhead Protection Area? N Pit is located in a Hydrologically Sensit | iiva Araa | H. SEE MEMO | | |

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: WEWOKA

HORIZONTAL HOLE 1

Sec 06 Twp 9N Rge 10E 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: 3173 Radius of Turn: 573

Direction: 2

Total Length: 11177

Measured Total Depth: 15250

True Vertical Depth: 3875

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

Notes:

MEMO

Category Description

DEEP SURFACE CASING 6/19/2018 - 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 6/19/2018 - 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

6/19/2018 - 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

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.

Category Description

PENDING CD - 201804486 6/20/2018 - G57 - (I.O.) 6,7,18,19-9N-10E

EST MULTIUNIT HORIZONTAL WELL X678867 MSSP, WDFD 18 & 19-9N-10E X678869 MSSP, WDFD 6 & 7-9N-10E

(WDFD IS AN ADJACENT COMMON SOURCE OF SUPPLY TO THE MSSP)

10% 18 & 19-9N-10E 90% 6 & 7-9N-10E CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON)

PENDING CD - 201804487 6/20/2018 - G57 - (I.O.) 6,7,18,19-9N-10E

X678867 MSSP, WDFD 18 & 19-9N-10E X678869 MSSP, WDFD 6 & 7-9N-10E

COMPL. INT. (18 & 19-9N-10E) NFT 1320' FNL, NCT 0' FNL, NCT 330' FWL COMPL. INT. (6 & 7-9N-10E) NCT 0' FSL, NCT 165' FNL, NCT 330' FWL

CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON)

PENDING CD - 201804488 6/20/2018 - G57 - 6 & 7-9N-10E

X678869 MSSP

1 WELL

CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON)

PENDING CD - 201804489 6/20/2018 - G57 - 18 & 19-9N-10E

X678867 MSSP

1 WELL

CALYX ENERGY III, LLC. REC 6-25-2018 (JOHNSON)

SPACING - 678867 6/20/2018 - G57 - (1280)(HOR) 18 & 19-9N-10E

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

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

SPACING - 678869 6/20/2018 - G57 - (1280)(HOR) 6 & 7-9N-10E

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

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