

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

API NUMBER: 091 21821

Approval Date: 03/19/2019

Expiration Date: 09/19/2020

Horizontal Hole
Multi Unit

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 14 Twp: 9N Rge: 13E County: MCINTOSH

SPOT LOCATION: ☐ SW ☐ NW ☐ SW ☐ NW FEET FROM QUARTER: FROM NORTH FROM WEST

SECTION LINES: 1795 234

Lease Name: MIFFLIN

Well No: 1-15-27CH

Well will be 234 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
TULSA, OK 74136-4226

JACK CAMPBELL RANCH, LLC
399356 HIGHWAY 9
HANNA OK 74845

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

	Name	Depth	Name	Depth
1	MISSISSIPPIAN	3675	6	
2	WOODFORD	4200	7	
3			8	
4			9	
5			10	

Spacing Orders: 541781
689526
552292
689527
692609

Location Exception Orders: 692610

Increased Density Orders:

Pending CD Numbers:

Special Orders:

Total Depth: 17125

Ground Elevation: 760

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 160

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? N

Pit 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).

Approved Method for disposal of Drilling Fluids:

A. Evaporation/dewater and backfilling of reserve pit.

B. Solidification of pit contents.

F. Haul to Commercial soil farming facility: Sec. 14 Twn. 7N Rng. 9E Cnty. 63 Order No: 551649

H. SEE MEMO

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.

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 27 Twp 9N Rge 13E County MCINTOSH

Spot Location of End Point: SW SE SE SE

Feet From: SOUTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 600

Depth of Deviation: 2899

Radius of Turn: 573

Direction: 185

Total Length: 13326

Measured Total Depth: 17125

True Vertical Depth: 4200

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

Notes:

Category

Description

DEEP SURFACE CASING

2/20/2019 - 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

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

LOCATION EXCEPTION - 692610

3/18/2019 - GA8 - (I.O.) 15, 22 & 27-9N-13E
X54178 MSSP 15-9N-13E
X689526 WDFD 15-9N-13E
X552292 MSSP, WDFD 22-9N-13E
X689527 MSSP, WDFD 27-9N-13E
COMPL. INT. (15-9N-13E) NCT 660' FNL, NCT 0' FSL, NCT 330' FEL
COMPL. INT. (22-9N-13E) NCT 0' FNL, NCT 0' FSL, NCT 330' FEL
COMPL. INT. (27-9N-13E) NCT 0' FNL, NCT 165' FSL, NCT 300' FEL
CALYX ENERGY III, LLC
3/8/2019

This permit does not address the right of entry or settlement of surface damages.

091 21821 MIFFLIN 1-15-27CH

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
MEMO	2/20/2019 - G71 - PIT 2 - CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST, WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY OCC
SPACING - 541781	3/18/2019 - GA8 - (640) 15-9N-13E EXT 535651 MSSP, OTHERS
SPACING - 552292	3/18/2019 - GA8 - (640) 22-9N-13E EXT 541781 MSSP, OTHERS EXT 500360 WDFD, OTHERS
SPACING - 689526	3/18/2019 - GA8 - (640)(HOR) 15-9N-13E EST WDFD, OTHER POE TO BHL 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 689527	3/18/2019 - GA8 - (640)(HOR) 27-9N-13E EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE OT BHL (WDFD) NLT 165' FNL & FSL, NLT 330' FEL & FWL
SPACING - 692609	3/18/2019 - GA8 - (I.O.) 15, 22, 27-9N-13E EST MULTUNIT HORIZONTAL WELL X54178 MSSP 15-9N-13E X689526 WDFD 15-9N-13E X552292 MSSP, WDFD 22-9N-13E X689527 MSSP, WDFD 27-9N-13E (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 19% 15-9N-13E 41% 22-9N-13E 40% 27-9N-13E CALYX ENERGY III, LLC 3/8/2019