

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

API NUMBER: 091 21819

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: 1780 234

Lease Name: MIFFLIN Well No: 1-14-26CH Well will be 234 feet from nearest unit or lease boundary.
Operator Name: CALYX ENERGY III LLC 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	3780	6	
2 WOODFORD	4140	7	
3		8	
4		9	
5		10	

Spacing Orders: 500360
690770
690771

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201810325
201810324

Special Orders:

Total Depth: 17225 Ground Elevation: 761 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

Approved Method for disposal of Drilling Fluids:

- A. Evaporation/dewater and backfilling of reserve pit.
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? N

Wellhead Protection Area? N

Pit is located in a Hydrologically Sensitive Area.

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

H. SEE MEMO

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).

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 26 Twp 9N Rge 13E County MCINTOSH

Spot Location of End Point: SE SW SW SW

Feet From: SOUTH 1/4 Section Line: 165

Feet From: WEST 1/4 Section Line: 600

Depth of Deviation: 3004

Radius of Turn: 573

Direction: 175

Total Length: 13321

Measured Total Depth: 17225

True Vertical Depth: 4145

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

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

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

091 21819 MIFFLIN 1-14-26CH

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 - 201810324	3/18/2019 - GA8 - (I.O.) 14, 23 & 26-9N-13E EST MULTIUNIT HORIZONTAL WELL X500360 MSSP, WDFD 14-9N-13E X690770 MSSP, WDFD 23-9N-13E X690771 MSSP, WDFD 26-9N-13E (WDFD ADJACENT COMMON SOURCE OF SUPPLY TO MSSP) 22% 14-9N-13E 53% 23-9N-13E 25% 26-9N-13E NO OP. NAMED REC. 1/4/2019 (JOHNSON)
PENDING CD -201810325	3/18/2019 - GA8 - (I.O.) 14, 23 & 26-9N-13E X500360 MSSP, WDFD 14-9N-13E X690770 MSSP, WDFD 23-9N-13E X690771 MSSP, WDFD 26-9N-13E COMPL. INT. (14-9N-13E) NCT 660' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (23-9N-13E) NCT 0' FNL, NCT 0' FSL, NCT 330' FWL COMPL. INT. (26-9N-13E) NCT 0' FNL, NCT 165' FSL, NCT 330' FWL NO OP. NAMED REC. 1/4/2019 (JOHNSON)
SPACING - 500360	3/18/2019 - GA8 - (640) 14-9N-13E VAC OTHERS EXT OTHERS EST MSSP, WDFD, OTHERS
SPACING - 690770	3/18/2019 - GA8 - (640)(HOR) 23-9N-13E EST MSSP, WDFD, OTHERS POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 660' FEL & FWL (COEXIST SP. ORDER #267333 S2 MSSP & ORDER #472275 MSSP)
SPACING 690771	3/18/2019 - GA8 - (640)(HOR) 26-9N-13E EST MSSP, WDFD, OTHER POE TO BHL (MSSP) NLT 660' FB POE TO BHL (WDFD) NLT 165' FNL & FSL, NLT 660' FEL & FWL (COEXIST SP. ORDER #267333 MSSP)

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.