

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

API NUMBER: 091 21824

Approval Date: 11/01/2019
Expiration Date: 05/01/2021

Horizontal Hole Oil & Gas
Multi Unit

PERMIT TO DRILL

WELL LOCATION: Sec: 07 Twp: 8N Rge: 13E County: MCINTOSH
SPOT LOCATION: NE SW SE SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 647 1829

Lease Name: EDISON Well No: 2-18-19WH Well will be 647 feet from nearest unit or lease boundary.
Operator CALYX ENERGY III LLC Telephone: 9189494224 OTC/OCC Number: 23515 0
Name:

CALYX ENERGY III LLC
6120 S YALE AVE STE 1480
TULSA, OK 74136-4226

MIDDLE CREEK, LLC
2798 N 394
DUSTIN OK 74839

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

	Name	Depth	Name	Depth
1	CANEY	4500	6	
2	MAYES	4750	7	
3	WOODFORD	4850	8	
4	HUNTON	4900	9	
5	SYLVAN	4900	10	

Spacing Orders: 672567 Location Exception Orders: 703320 Increased Density Orders:
677022
674734
703319

Pending CD Numbers: 201904205 Special Orders:
201904206

Total Depth: 15350 Ground Elevation: 915 Surface Casing: 1500 Depth to base of Treatable Water-Bearing FM: 190

Deep surface casing has been approved

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.

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 19-36985

H. PITS 2 - WBM/CUTTINGS CAPTURED IN CONCRETE-LINED PIT, SOLIDIFIED AND HELD UNTIL DISPOSAL APPROVED BY

This permit does not address the right of entry or settlement of surface damages.
The duration of this permit is 18 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: ON SITE
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: 1B
Liner required for Category: 1B
Pit Location is BED AQUIFER
Pit Location Formation: SENORA

HORIZONTAL HOLE 1

Sec 19 Twp 8N Rge 13E County PITTSBURG
Spot Location of End Point: SW SE SW SE
Feet From: SOUTH 1/4 Section Line: 165
Feet From: EAST 1/4 Section Line: 1800
Depth of Deviation: 3700
Radius of Turn: 799
Direction: 160
Total Length: 10395
Measured Total Depth: 15350
True Vertical Depth: 5000
End Point Location from Lease,
Unit, or Property Line: 165

Notes:

Table with 2 columns: Category, Description. Rows include DEEP SURFACE CASING, HYDRAULIC FRACTURING, and LOCATION EXCEPTION - 703320.

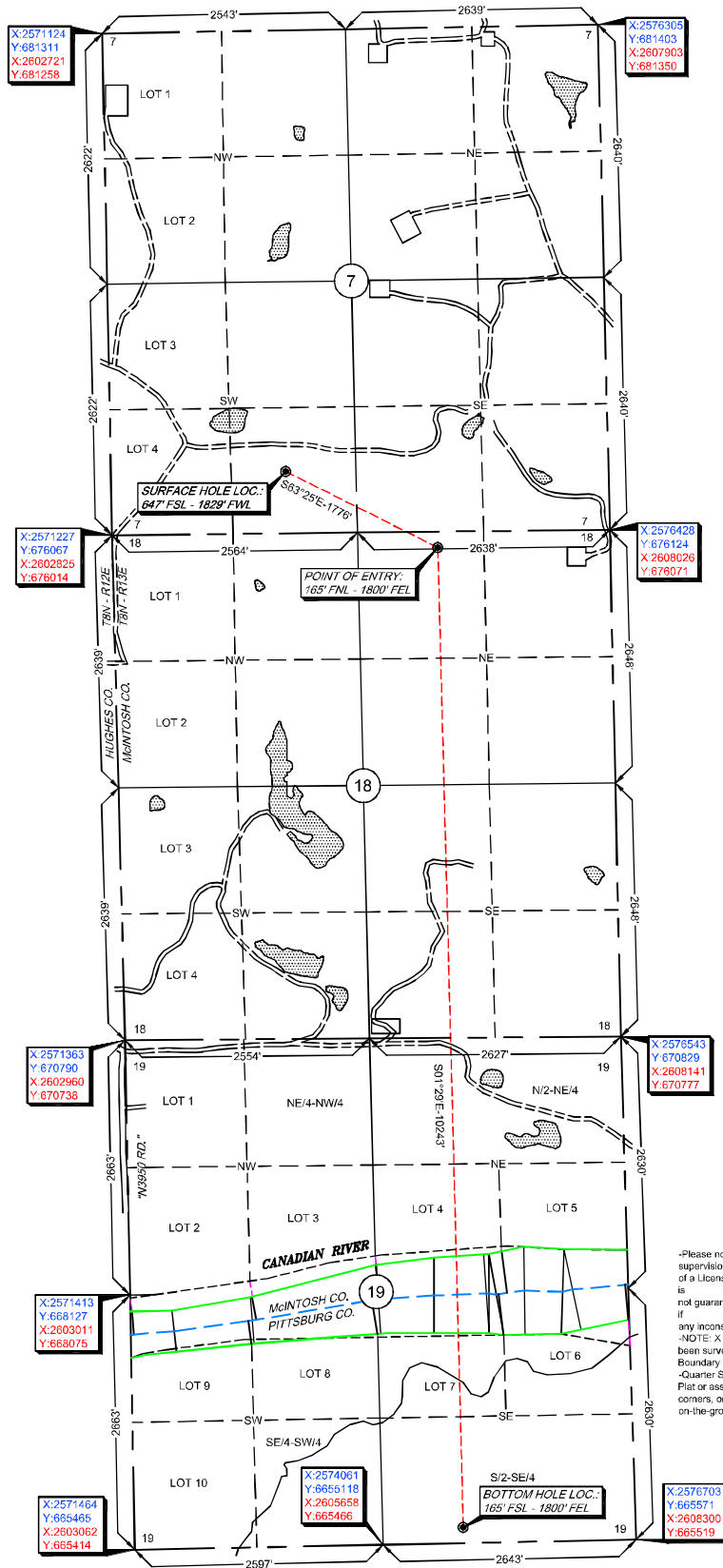
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PENDING CD - 201904205	10/30/2019 - GC2 - 18-8N-13E X672567 MYES, WDFD 5 WELLS; 3 WDFD, 2 MYES NO OP. NAMED REC. 9-23-2019 (JOHNSON)
PENDING CD - 201904206	10/30/2019 - GC2 - 19-8N-13E X674734 MYES, WDFD 5 WELLS; 3 WDFD, 2 MYES NO OP. NAMED REC. 9-23-2019 (JOHNSON)
SPACING - 672567	10/30/2019 - GC2 - (640)(HOR) 18-8N-13E EST CNEY, MYES, WDFD, HNTN COMPL. INT. (CNEY) NLT 330' FB COMPL. INT. (MYES, HNTN) NLT 660' FB COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL (COEXIST SP ORDER 507804 CNEY, WDFD, HNTN)
SPACING - 674734	10/30/2019 - GC2 - (640)(HOR) 19-8N-13E EST CNEY, MYES, WDFD, HNTN, SLVN COMPL. INT. (WDFD) NLT 165' FNL/FSL, NLT 330' FEL/FWL COMPL. INT. (CNEY, SLVN) NLT 330' FB COMPL. INT. (MYES, HNTN) NLT 660' FB (COEXIST SP ORDER 515955 CNEY, WDFD, HNTN)
SPACING - 677022	10/30/2019 - GC2 - (640)(HOR) 18-8N-13E EXT 671803 SLVN COMPL. INT (SLVN) NLT 330' FB
SPACING - 703319	10/30/2019 - GC2 - (I.O.) 18 & 19-8N-13E EST MULTIUNIT HORIZONTAL WELL X672567 CNEY, MYES, WDFD, HNTN 18-8N-13E X677022 SLVN 18-8N-13E X674734 CNEY, MYES, WDFD, HNTN, SLVN 19-8N-13E (CNEY, HNTN, SLVN ASSOCIATED COMMON SOURCE OF SUPPLY TO MYES, WDFD) 50% 18-8N-13E 50% 19-8N-13E CALYX ENERGY III, LLC 10-7-2019

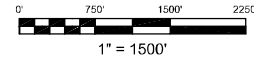
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Operator: CALYX ENERGY III, LLC
Lease Name and No.: EDISON 2-18-19WH
Footage: 647' FSL - 1829' FWL Gr. Elevation: N/A
Section: 7 Township: 8N Range: 13E I.M.
County: McINTOSH State of Oklahoma
Terrain at Loc.: Location fell in an open field with an existing lease road to the North and timber to the South.

091-21824



All bearings shown are grid bearings.



GPS DATUM
NAD 83
NAD 27
OK SOUTH ZONE

Surface Hole Loc.:
Lat: 35°10'34.31"N
Lon: 95°58'37.19"W
Lat: 35.17619659
Lon: -95.97699763
X:2573043.13
Y:676733.82

Surface Hole Loc.:
Lat: 35°10'33.96"N
Lon: 95°58'36.19"W
Lat: 35.17610007
Lon: -95.97671995
X:2604640.85
Y:676681.36

Point of Entry:
Lat: 35°10'26.13"N
Lon: 95°58'18.25"W
Lat: 35.17392598
Lon: -95.97173608
X:2574631.86
Y:675939.08

Point of Entry:
Lat: 35°10'25.79"N
Lon: 95°58'17.25"W
Lat: 35.17382946
Lon: -95.97145858
X:2606229.56
Y:675886.64

Bottom Hole Loc.:
Lat: 35°08'44.83"N
Lon: 95°58'17.52"W
Lat: 35.14578483
Lon: -95.97153439
X:2574897.94
Y:665699.48

Bottom Hole Loc.:
Lat: 35°08'44.48"N
Lon: 95°58'16.53"W
Lat: 35.14568889
Lon: -95.97125699
X:2606495.64
Y:665647.53

-Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.
-NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.
-Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.

Survey and plat by:
Arkoma Surveying and Mapping, PLLC
P.O. Box 238 Wilburton, OK 74578
Ph. 918-465-5711 Fax 918-465-5030
Certificate of Authorization No. 5348
Expires June 30, 2020

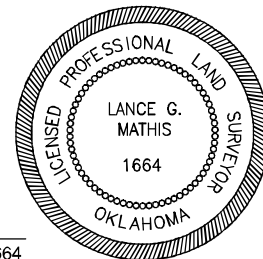
Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Lance G. Mathis
LANCE G. MATHIS

08/23/19

OK LPLS 1664



Invoice #8832-C
Date Staked: 08/16/19 By: D.W.
Date Drawn: 08/20/19 By: M.K.