

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

API NUMBER: 119 23973 A

Approval Date: 10/03/2012
Expiration Date: 04/03/2013

Horizontal Hole Oil & Gas

Amend reason: CHANGE SURFACE LOCATION; UPDATE ORDERS

AMEND PERMIT TO DRILL

WELL LOCATION: Sec: 06 Twp: 17N Rge: 4E County: PAYNE
SPOT LOCATION: SE SE SW SE FEET FROM QUARTER: FROM SOUTH FROM EAST
SECTION LINES: 175 1550

Lease Name: LOUIS Well No: 7-1WX Well will be 175 feet from nearest unit or lease boundary.
Operator Name: CALYX ENERGY LLC Telephone: 9189494224 OTC/OCC Number: 22299 0

CALYX ENERGY LLC
10820 E 45TH ST STE 208
TULSA, OK 74146-3807

LOUIS A. WILLIAMS
5913 W. 9TH ST.
CUSHING OK 74023

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

Name	Depth	Name	Depth
1 WOODFORD	4230	6	
2		7	
3		8	
4		9	
5		10	

Spacing Orders: 603352 Location Exception Orders: 605424 Increased Density Orders:
604186 604919
603670

Pending CD Numbers: Special Orders:

Total Depth: 14069 Ground Elevation: 860 Surface Casing: 130 Depth to base of Treatable Water-Bearing FM: 80

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

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

Type of Mud System: WATER BASED

Chlorides Max: 5000 Average: 3000

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 ALLUVIAL

Pit Location Formation: ALLUVIUM

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 12-21168
H. CLOSED SYSTEM=STEEL PITS (REQUIRED, CIMARRON RIVER)

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.

HORIZONTAL HOLE 1

Sec 18 Twp 17N Rge 4E County PAYNE

Spot Location of End Point: C SE SE SE

Feet From: SOUTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 3230

Radius of Turn: 1000

Direction: 173

Total Length: 9268

Measured Total Depth: 14069

True Vertical Depth: 4230

End Point Location from Lease,
Unit, or Property Line: 330

Notes:

Category

Description

LOCATION EXCEPTION - 604919

1/31/2013 - G75 - (I.O.)
X603670 WDFD, OTHERS
SHL NCT 175 FSL, NCT 1520 FEL 6-17N-4E
FIRST PERF NCT 330 FNL, NCT 660 FEL 7-17N-4E
LAST PERF NCT 0 FSL, NCT 330 FEL 7-17N-4E
CALYX ENERGY, LLC
12-4-2012

LOCATION EXCEPTION - 605424

1/31/2013 - G75 - (I.O.) 18-17N-4E
X603352 WDFD, OTHERS
FIRST PERF NCT 0 FNL, NCT 330 FEL
LAST PERF NCT 330 FSL, NCT 330 FEL
CALYX ENERGY, LLC
12-13-2012

SPACING - 603352

1/31/2013 - G75 - (640)(HOR) 18-17N-4E
VAC OTHER
EXT 593209 WDFD, OTHERS
POE TO BHL NCT 330' FB
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

SPACING - 603670

1/31/2013 - G75 - (640)(HOR) 7-17N-4E
VAC OTHER
EXT 593209 WDFD, OTHERS
POE TO BHL NCT 330' FB
(SUPERSEDE NON-DEVELOPED NON-HORIZONTAL SPACING UNITS)

SPACING - 604186

1/31/2013 - G75 - (I.O.)(640) 7 & 18-17N-4E
EST MULTIUNIT HORIZONTAL WELL
X603670 WDFD, OTHERS 7-17N-4E
X603352 WDFD, OTHERS 18-17N-4E
49.4% 7-17N-4E
50.6% 18-17N-4E
CALYX ENERGY, LLC
11-14-2012

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