

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

API NUMBER: 119 23971 A

Approval Date: 09/25/2012
Expiration Date: 03/25/2013

Horizontal Hole Oil & Gas

Amend reason: AMEND SHL

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 1520

Lease Name: LOUIS

Well No: 6-1MH

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	MISSISSIPPIAN	3952	6
2			7
3			8
4			9
5			10

Spacing Orders: 601212

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201204439

Special Orders:

Total Depth: 8533

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: 12-20857

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 06 Twp 17N Rge 4E County PAYNE

Spot Location of End Point: C NW NW NE

Feet From: NORTH 1/4 Section Line: 330

Feet From: EAST 1/4 Section Line: 2310

Depth of Deviation: 3300

Radius of Turn: 1200

Direction: 349

Total Length: 4033

Measured Total Depth: 8533

True Vertical Depth: 3952

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

Notes:

Category

Description

PENDING CD - 201204439

9/25/2012 - G30 - 6-17N-4E
X601212 MSSP
SHL 175 FSL, 1400 FEL**
1ST PERF NCT 330 FSL, NCT 1320 FEL
LAST PERF NCT 330 FNL, NCT 1320 FEL
NO OP. NAMED
REC 8/6/12 (LEAVITT)

**SHL TO BE CORRECTED AT HEARING FOR FINAL ORDER LOCATION EXCEPTION

SPACING - 601212

9/25/2012 - G30 - (640 HOR) 6-17N-4E
DEL 296209 MSSP, OTHER
EST MSSP, OTHERS