

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

API NUMBER: 119 24061

Approval Date: 04/22/2013
Expiration Date: 10/22/2013

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 10 Twp: 17N Rge: 4E

County: PAYNE

SPOT LOCATION: NE NE NE NE

FEET FROM QUARTER: FROM NORTH FROM EAST

SECTION LINES: 190 140

Lease Name: BARRETT

Well No: 10-1MH

Well will be 140 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

RITA BARRETT, TRUSTEE
6321 W 9TH ST
CUSHING OK 74023

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	3940	6
2			7
3			8
4			9
5			10

Spacing Orders: No Spacing

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201301883
201302084

Special Orders:

Total Depth: 8792

Ground Elevation: 867

Surface Casing: 750

Depth to base of Treatable Water-Bearing FM: 500

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: Yes

PIT 1 INFORMATION

Approved Method for disposal of Drilling Fluids:

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

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 13-22901
H. CLOSED SYSTEM=STEEL PITS PER OPERATOR OPTION

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 10 Twp 17N Rge 4E County PAYNE

Spot Location of End Point: SW SE SE SE

Feet From: NORTH 1/4 Section Line: 165

Feet From: EAST 1/4 Section Line: 600

Depth of Deviation: 3237

Radius of Turn: 1273

Direction: 180

Total Length: 4282

Measured Total Depth: 8792

True Vertical Depth: 3940

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

Notes:

Category	Description
PENDING CD - 201301883	4/9/2013 - G30 - (640 HOR) 10-17N-4E X599102 MSSP, OTHERS EST OTHER REC 4/8/13 (OSBURN)
PENDING CD - 201302084	4/9/2013 - G30 - 10-17N-4E X201301883 MSSP COMP. INT. NCT 165 FNL/FSL, NCT 330 FEL NO OP. NAMED REC 4/18/13 (P.PORTER)
SURFACE CASING	4/9/2013 - G71 - 750' SURFACE CASING REQUIRED PER CITY OF CUSHING

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