

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

API NUMBER: 119 24320

Approval Date: 12/29/2014  
Expiration Date: 06/29/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 13 Twp: 18N Rge: 4E

County: PAYNE

SPOT LOCATION:  NW  SW  SW  SW

FEET FROM QUARTER: FROM SOUTH FROM WEST

SECTION LINES: 400 235

Lease Name: MICK 13

Well No: 1-24MH

Well will be 235 feet from nearest unit or lease boundary.

Operator Name: CROWN ENERGY COMPANY

Telephone: 4055260111

OTC/OCC Number: 19779 0

CROWN ENERGY COMPANY  
1117 NW 24TH ST  
OKLAHOMA CITY, OK 73106-5615

LETA & MARION GERMAN JR  
6103 E MCELROY ROAD  
STILLWATER OK 74075

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

Name	Depth	Name	Depth
1	MISSISSIPPIAN	3650	6
2			7
3			8
4			9
5			10

Spacing Orders: 634257

Location Exception Orders: 634366

Increased Density Orders:

Pending CD Numbers: 201408850

Special Orders:

Total Depth: 8997

Ground Elevation: 865

**Surface Casing: 700**

Depth to base of Treatable Water-Bearing FM: 150

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 AP/TE DEPOSIT

Pit Location Formation: TERRACE

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT)

PERMIT NO: 14-29205

H. CLOSED SYSTEM=STEEL PITS PER OPERATOR REQUEST

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 24 Twp 18N Rge 4E County PAYNE

Spot Location of End Point: SE SE SW SW

Feet From: SOUTH 1/4 Section Line: 209

Feet From: WEST 1/4 Section Line: 1150

Depth of Deviation: 3150

Radius of Turn: 687

Direction: 168

Total Length: 4768

Measured Total Depth: 8997

True Vertical Depth: 3701

End Point Location from Lease,  
Unit, or Property Line: 209

Notes:

Category	Description
DEEP SURFACE CASING	12/29/2014 - G71 - APPROVED CONTINGENT ON NOTIFYING OCC FIELD STAFF IMMEDIATELY OF ANY LOSS OF CIRCULATION OR FAILURE TO CIRCULATE CEMENT TO SURFACE ON ANY CONDUCTOR OR SURFACE CASING
LOCATION EXCEPTION - 634366	12/29/2014 - G91 - (E.O.) 24-18N-4E X634257 MSSP COMPL. INT. NCT 330 FNL, NCT 150 FSL, NCT 330 FWL CROWN ENERGY CO. 12-19-2014
PENDING CD - 201408850	12/29/2014 - G91 - 24-18N-4E X634257 MSSP 1 WELL NO OP. NAMED HRG 12-30-2014 (LEAVITT)
SPACING - 634257	12/29/2014 - G91 - 24-18N-4E EXT 623500 MSSP, OTHERS POE TO BHL NCT 660' FB

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