

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

API NUMBER: 017 24434 B

Approval Date: 03/26/2014  
Expiration Date: 09/26/2014

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 22 Twp: 14N Rge: 9W County: CANADIAN  
SPOT LOCATION: SW SE SE SE FEET FROM QUARTER: FROM SOUTH FROM EAST  
SECTION LINES: 210 400

Lease Name: RENBARGER Well No: 1-22H Well will be 210 feet from nearest unit or lease boundary.  
Operator Name: CIMAREX ENERGY CO Telephone: 9185851100 OTC/OCC Number: 21194 0

CIMAREX ENERGY CO  
202 S CHEYENNE AVE STE 1000  
TULSA, OK 74103-3001

STEVE & LINDY RENBARGER  
PO BOX 134  
CALUMET OK 73014

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

|   | Name              | Depth | Name | Depth |
|---|-------------------|-------|------|-------|
| 1 | CHESTER           | 9797  | 6    |       |
| 2 | MISSISSIPPI SOLID | 10950 | 7    |       |
| 3 | WOODFORD          | 11255 | 8    |       |
| 4 | HUNTON            | 11464 | 9    |       |
| 5 |                   |       | 10   |       |

Spacing Orders: 553636  
559059

Location Exception Orders:

Increased Density Orders:

Pending CD Numbers: 201401074

Special Orders:

Total Depth: 16120

Ground Elevation: 1426

**Surface Casing: 1500**

Depth to base of Treatable Water-Bearing FM: 460

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

PIT 1 INFORMATION

Type of Pit System: CLOSED Closed System Means Steel Pits

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: 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: 14-26729

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 22 Twp 14N Rge 9W County CANADIAN

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 50

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 10916

Radius of Turn: 474

Direction: 360

Total Length: 4452

Measured Total Depth: 16120

True Vertical Depth: 11464

End Point Location from Lease,  
Unit, or Property Line: 50

Notes:

| Category               | Description   |
|------------------------|---|
| DEEP SURFACE CASING    | 3/26/2014 - 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  |
| PENDING CD - 201401074 | 3/26/2014 - G30 - 22-14N-9W<br>X553636 CSTR, MSSSD, HNTN<br>X559059 WDFD<br>SHL NCT 170 FSL, NCT 340 FEL 22-14N-9W<br>1ST PERF NCT 150 FSL, NCT 250 FEL<br>LAST PERF NCT 150 FNL, NCT 250 FEL<br>NO OP. NAMED<br>REC 3/4/14 (JOHNSON) |
| SPACING - 553636       | 3/26/2014 - G30 - (640) 22-14N-9W<br>EXT 199782 CSTR<br>EXT 193707 MSSSD, HNTN<br>EXT OTHERS  |
| SPACING - 559059       | 3/26/2014 - G30 - (640) 22-14N-9W<br>EXT 199782 WDFD, OTHERS<br>EXT OTHER   |

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