

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

API NUMBER: 017 24737

Approval Date: 01/07/2015

Expiration Date: 07/07/2015

Horizontal Hole

Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 14N Rge: 10W

County: CANADIAN

SPOT LOCATION:

FEET FROM QUARTER: FROM SOUTH FROM EAST

SECTION LINES: 250 180

Lease Name: PHILLIPS

Well No: 11-34H

Well will be 180 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

LYNDON JAMESON
26500 EDMOND ROAD NW
GEARY OK 73040

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

	Name	Depth	Name	Depth
1	WOODFORD	12600	6	
2			7	
3			8	
4			9	
5			10	

Spacing Orders: 542123

Location Exception Orders: 631974

Increased Density Orders: 631972

633125

Pending CD Numbers:

Special Orders:

Total Depth: 17314

Ground Elevation: 1433

Surface Casing: 1500

Depth to base of Treatable Water-Bearing FM: 150

Under Federal Jurisdiction: No

Fresh Water Supply Well Drilled: No

Surface Water used to Drill: No

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: 100000 Average: 5000

Is depth to top of ground water greater than 10ft below base of pit? Y

Within 1 mile of municipal water well? Y

Wellhead Protection Area? N

Pit is not located in a Hydrologically Sensitive Area.

Category of Pit: C

Liner not required for Category: C

Pit Location is NON HSA

Pit Location Formation: DOG CREEK

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

PERMIT NO: 14-29349

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 34 Twp 14N Rge 10W County CANADIAN

Spot Location of End Point: N2 NE NE NE

Feet From: NORTH 1/4 Section Line: 1

Feet From: EAST 1/4 Section Line: 330

Depth of Deviation: 12138

Radius of Turn: 493

Direction: 359

Total Length: 4402

Measured Total Depth: 17314

True Vertical Depth: 12616

End Point Location from Lease,
Unit, or Property Line: 1

Notes:

Category	Description
DEEP SURFACE CASING	1/7/2015 - 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
EXCEPTION TO RULE - 631974	1/7/2015 - G91 - (I.O.) 34-14N-10W X165:10-3-28(C)(2)(B) WDFD (PHILLIPS 11-34H) LESS THAN 600' FROM PROPOSED/EXISTING WELLS CIMAREX ENERGY, CO. 10-17-2014
INCREASED DENSITY - 631972	1/7/2015 - G91 - 34-14N-10W X542123 WDFD 11 WELLS CIMAREX ENERGY, CO. 10-17-2014
LOCATION EXCEPTION - 633125	1/7/2015 - G91 - (I.O.) 34-14N-10W X542123 WDFD, OTHERS SHL 250 FSL, 180 FEL COMPL. INT. NCT 150 FSL, NCT 150 FNL, NCT 250 FEL CIMAREX ENERGY CO. 11-18-2014
SPACING - 542123	1/7/2015 - G91 - (640) 34-14N-10W EXT VARIOUS OTHERS EXT 437583 WDFD, OTHER EST OTHERS

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017 24737 PHILLIPS 11-34H