

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

API NUMBER: 017 24725

Approval Date: 12/08/2014
Expiration Date: 06/08/2015

Horizontal Hole Oil & Gas

PERMIT TO DRILL

WELL LOCATION: Sec: 34 Twp: 14N Rge: 10W County: CANADIAN
SPOT LOCATION: SW SE SW SW FEET FROM QUARTER: FROM SOUTH FROM WEST
SECTION LINES: 250 910

Lease Name: PHILLIPS Well No: 3-34H Well will be 250 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

TERRY PHILLIPS
27450 164TH ST 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
633122

Pending CD Numbers:

Special Orders:

Total Depth: 17454 Ground Elevation: 1457 **Surface Casing: 1500** Depth to base of Treatable Water-Bearing FM: 140

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: 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? N

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

Approved Method for disposal of Drilling Fluids:

D. One time land application -- (REQUIRES PERMIT) PERMIT NO: 14-28726
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: NW NE NW NW

Feet From: NORTH 1/4 Section Line: 1

Feet From: WEST 1/4 Section Line: 750

Depth of Deviation: 12275

Radius of Turn: 495

Direction: 359

Total Length: 4402

Measured Total Depth: 17454

True Vertical Depth: 12800

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

Notes:

Category	Description
DEEP SURFACE CASING	12/8/2014 - 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
EXCEPTION TO RULE - 631974	12/8/2014 - G91 - (I.O.) 34-14N-10W X165:10-3-28(C)(2)(B) WDFD (PHILLIPS 3-34H) LESS THAN 600' FROM PROPOSED/EXISTING WELLS CIMAREX ENERGY, CO. 10-17-2014
INCREASED DENSITY - 631972	12/8/2014 - G91 - 34-14N-10W X 542123 WDFD 11 WELLS CIMAREX ENERGY, CO. 10-17-2014
LOCATION EXCEPTION - 633122	12/8/2014 - G91 - (I.O.) 34-14N-10W X542123 WDFD, OTHERS SHL 250 FSL, 910 FWL COMPL. INT. NCT 150 FSL, NCT 150 FNL, NCT 650 FWL CIMAREX ENERGY CO. 11-18-2014
SPACING - 542123	12/8/2014 - G91 - (640) 34-14N-10W EXT VARIOUS OTHERS EXT 437583 WDFD, OTHER EST OTHERS

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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.



Well Location Plat

Sec. 34-14N-10W I.M.

017-24725

Operator: CIMAREX ENERGY COMPANY
 Lease Name and No. : PHILLIPS #3-34H
 Footage : 250' FSL - 910' FWL GR. ELEVATION : 1457' Good Site? YES
 Section: 34 Township: 14N Range: 10W I.M.
 County : Canadian State of Oklahoma
 Alternate Loc. : N/A
 Terrain at Loc. : Location fell in open plowed wheat field.

BASIS OF BEARINGS:
 GRID NORTH - NAD 83
 STATE PLANE - OK NORTH ZONE

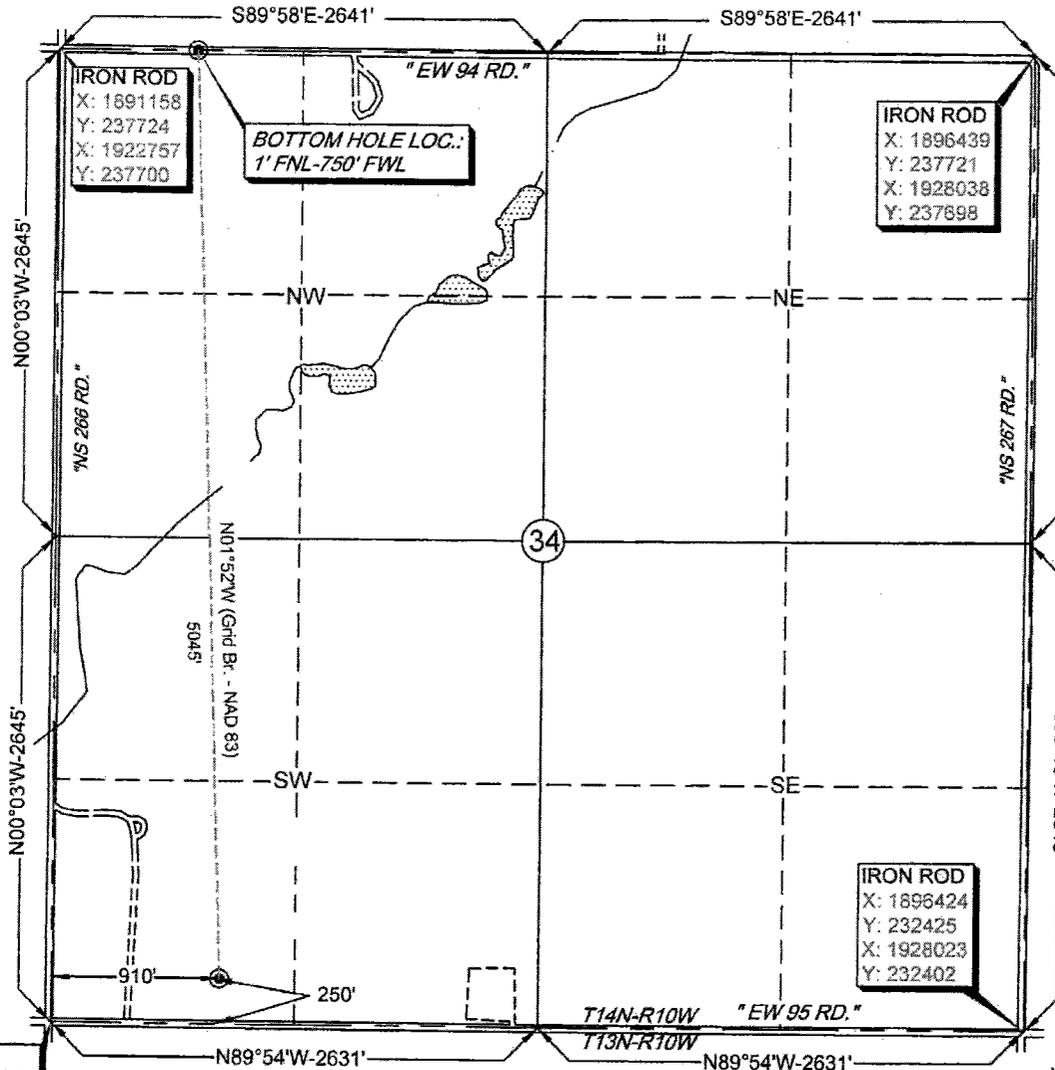


1"=1000'
 GPS DATUM
 NAD 83
 OK NORTH ZONE
 NAD 27
 OK NORTH ZONE

Accessibility : From the West.

Directions : From the junction of State Highway 281 and State Highway 270 in Geary, OK, go 4.2 miles East on HWY 270 then 1 mile North on "NS 2670 Road" to the Southeast Corner of Section 34-14N-10W.

Quarter Section distances may be assumed from a Government Survey Plat or assumed at a proportionate distance from opposing section corners, or occupation thereof, and may not have been measured on-the-ground, and further, does not represent a true boundary survey.



Surface Hole Loc.:	Lat: 35.63892707
	Lon: -96.25720236
	X: 1892072
	Y: 232682
Surface Hole Loc.:	Lat: 35.63887929
	Lon: -98.25686347
	X: 1923671
	Y: 232659
Bottom Hole Loc.:	Lat: 35.65282517
	Lon: -98.25813925
	X: 1891908
	Y: 237725
Bottom Hole Loc.:	Lat: 35.65272494
	Lon: -98.25745986
	X: 1923507
	Y: 237701

3/8" IR
 X: 1891162
 Y: 232434
 X: 1922761
 Y: 232410

NOTE: X and Y data shown hereon for Section Corners may NOT have been surveyed on-the-ground, and further, does NOT represent a true Boundary Survey.

Please note that this location was staked on the ground under the supervision of a Licensed Professional Land Surveyor, but the accuracy of this survey is not guaranteed. Please contact Arkoma Surveying and Mapping promptly if any inconsistency is determined. GPS data is observed from RTK - GPS.

BASIS OF ELEVATION:
 Topo Elev.=1404' @
 NE Cor. Section 34, T14N-R10W
 Tied with
 Topo Elev.=1434' @
 SE Cor. Section 34, T14N-R10W

survey and plat by,
Arkoma Surveying and Mapping, PLLC

P.O. Box 238 Wilburton, OK 74578
 Ph. 918-465-5711 Fax 918-465-5030
 Certificate of Authorization No. 5348
 Expires June 30, 2016
 Invoice #2990-B-A

Date Staked : 03/29/12 By : C.K.
 Date Drawn : 04/02/12 By : R.M.
 Revised BHL : 08/04/14 By : J.H.

Certification:

This is to certify that this Well Location Plat represents the results of a survey made on the ground performed under the supervision of the undersigned.

Stan Drannon 8/5/14
 STAN DRANNON OK LPLS 1672

