

DISTRICT I  
1023 N. French Dr., Hobbs, NM 88340

DISTRICT II  
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Alamo, NM 87410

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised July 16, 2010

Submit one copy to appropriate  
District Office

# OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

"AS DRILLED"

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

|                          |                                                 |                                         |
|--------------------------|-------------------------------------------------|-----------------------------------------|
| API Number<br>3001538655 | Pool Code<br>96610                              | Pool Name<br>Empire; Gloreita-Yeso East |
| Property Code<br>38549   | Property Name<br>BLUETAIL "8" FEDERAL           | Well Number<br>4                        |
| OGRD No.<br>162683       | Operator Name<br>CIMAREX ENERGY CO. OF COLORADO | Elevation<br>3649'                      |

### Surface Location

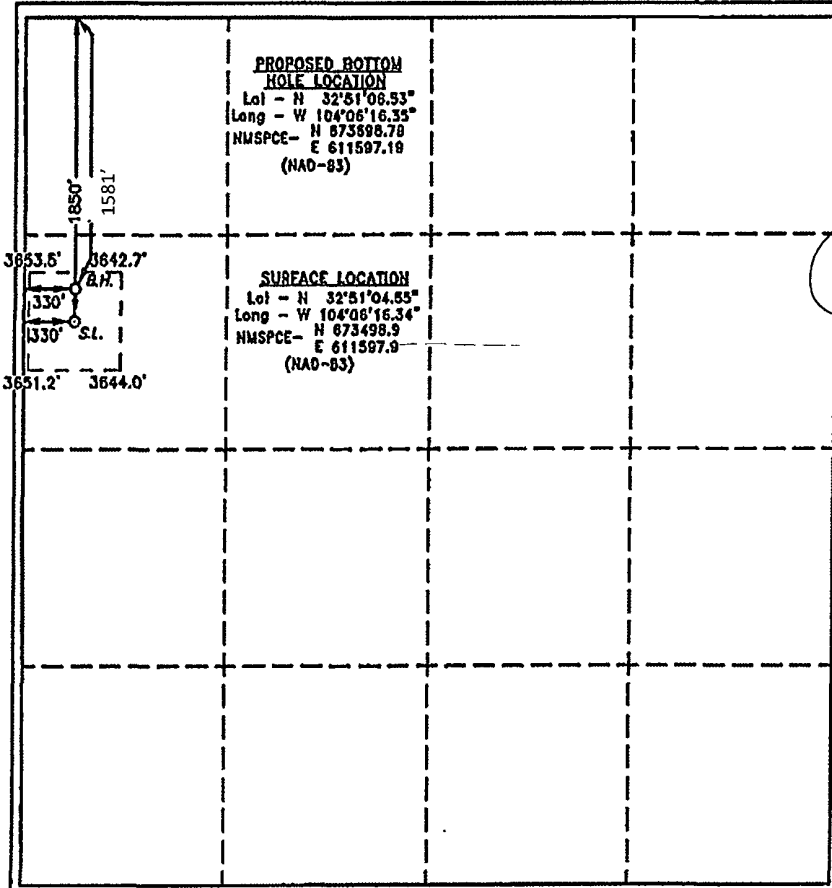
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E             | 8       | 17 S     | 29 E  |         | 1850          | NORTH            | 330           | WEST           | EDDY   |

### Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E             | 8       | 17 S     | 29 E  |         | 1581          | NORTH            | 330           | WEST           | EDDY   |

|                          |                 |                    |           |
|--------------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br>40.97 | Joint or Infill | Consolidation Code | Order No. |
|--------------------------|-----------------|--------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|                                                                                      |                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b>PROPOSED BOTTOM HOLE LOCATION</b><br/>Lat - N 32°51'08.53"<br/>Long - W 104°06'16.35"<br/>NMSPC - N 873598.78<br/>E 611597.18<br/>(NAD-83)</p> <p><b>SURFACE LOCATION</b><br/>Lat - N 32°51'04.53"<br/>Long - W 104°06'16.34"<br/>NMSPC - N 873498.9<br/>E 611597.0<br/>(NAD-83)</p> | <p><b>OPERATOR CERTIFICATION</b><br/>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill the well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Terri Stathem</i> Date: 1/16/11</p> <p>Printed Name: Terri Stathem<br/>Email Address: tstathem@cimarex.com</p> <p><b>SURVEYOR CERTIFICATION</b><br/>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.</p> <p>Date Surveyed: <i>1/16/11</i><br/>Signature &amp; Seal of Professional Surveyor: <i>Gary L. Jones</i></p> <p>Certificate No. Gary L. Jones 7977<br/>BASIN SURVEYS 23178</p> |
|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



PO Box 1370  
Artesia, NM 88211-1370  
(575) 748-1288

July 8, 2011

Cimarex Energy Co.  
Attn: Jim Evans  
600 N. Marienfeld, Suite 600  
Midland, TX 79701

15-38655  
RE: Bluetail 8 Federal #4  
1850' FNL & 330' FWL  
Sec. 8, T17S, R29E  
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

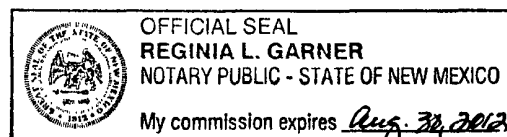
Very truly yours,

A handwritten signature in cursive script, appearing to read "Eddie C. LaRue".

Eddie C. LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 8<sup>th</sup> day of July, 2011.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".  
Notary Public

Bluetail 8 Federal #4

| #         | Date | Depth | Dev/AZT | Direction |
|-----------|------|-------|---------|-----------|
| 6/30/2011 |      | 229   | 0.50    | 0.00      |
| 7/1/2011  |      | 480   | 0.70    | 0.00      |
| 7/1/2011  |      | 725   | 1.00    | 0.00      |
| 7/2/2011  |      | 1053  | 0.60    | 90.10     |
| 7/2/2011  |      | 1116  | 2.10    | 28.40     |
| 7/2/2011  |      | 1212  | 2.10    | 41.00     |
| 7/2/2011  |      | 1306  | 4.70    | 39.10     |
| 7/1/2011  |      | 1400  | 5.20    | 28.30     |
| 7/2/2011  |      | 1494  | 353.70  | 4.80      |
| 7/2/2011  |      | 1587  | 343.80  | 5.10      |
| 7/2/2011  |      | 1682  | 350.80  | 4.30      |
| 7/2/2011  |      | 1776  | 356.10  | 4.20      |
| 7/3/2011  |      | 1871  | 3.70    | 356.10    |
| 7/3/2011  |      | 1966  | 355.80  | 4.10      |
| 7/3/2011  |      | 2111  | 3.90    | 350.60    |
| 7/3/2011  |      | 2155  | 4.20    | 350.00    |
| 7/3/2011  |      | 2250  | 4.20    | 344.90    |
| 7/3/2011  |      | 2345  | 4.40    | 354.40    |
| 7/3/2011  |      | 2439  | 4.40    | 351.00    |
| 7/3/2011  |      | 2533  | 4.70    | 353.10    |
| 7/4/2011  |      | 2629  | 4.50    | 4.10      |
| 7/4/2011  |      | 2724  | 4.40    | 346.80    |
| 7/4/2011  |      | 2819  | 4.40    | 359.30    |
| 7/4/2011  |      | 2914  | 4.30    | 353.50    |
| 7/4/2011  |      | 3008  | 4.30    | 12.40     |
| 7/4/2011  |      | 3103  | 3.90    | 5.70      |
| 7/4/2011  |      | 3197  | 4.40    | 6.20      |
| 7/4/2011  |      | 3275  | 4.70    | 2.30      |
| 7/5/2011  |      | 3293  | 4.50    | 3.40      |
| 7/5/2011  |      | 3387  | 4.60    | 359.00    |
| 7/5/2011  |      | 3483  | 4.60    | 1.00      |
| 7/5/2011  |      | 3578  | 4.40    | 358.40    |
| 7/5/2011  |      | 3671  | 4.60    | 354.30    |
| 7/5/2011  |      | 3755  | 4.80    | 347.10    |
| 7/6/2011  |      | 3860  | 3.70    | 358.80    |
| 7/6/2011  |      | 3954  | 3.20    | 348.60    |
| 7/6/2011  |      | 4048  | 4.40    | 20.20     |
| 7/6/2011  |      | 4079  | 4.30    | 20.80     |
| 7/6/2011  |      | 4142  | 4.50    | 17.00     |
| 7/6/2011  |      | 4236  | 4.10    | 20.70     |
| 7/6/2011  |      | 4331  | 4.30    | 12.30     |
| 7/6/2011  |      | 4426  | 4.40    | 7.70      |
| 7/6/2011  |      | 4522  | 4.10    | 93.00     |
| 7/6/2011  |      | 4616  | 4.40    | 0.90      |
| 7/7/2011  |      | 4652  | 4.60    | 356.00    |

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

COPY

OCD Artesia

FORM APPROVED  
OMB NO. 1004-0135  
Expires July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

|                                                                                                                                                         |  |                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                        |  | 5. Lease Serial No.<br>NMLC068960                                                |
| 2. Name of Operator<br><input checked="" type="checkbox"/> CIMAREX ENERGY COMPANY OF CO-Mail: nkrueger@cimarex.com                                      |  | 6. If Indian, Allottee or Tribe Name                                             |
| 3a. Address<br>600 NORTH MARIENFELD STREET SUITE 600<br>MIDLAND, TX 79701                                                                               |  | 7. If Unit or CA/Agreement, Name and/or No.                                      |
| 3b. Phone No. (include area code)<br>Ph: 432-620-1936<br>Fx: 432-620-1940                                                                               |  | 8. Well Name and No.<br>BLUETAIL 8 FEDERAL 4 <input checked="" type="checkbox"/> |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>Sec 8 T17S R29E SWNW Lot E 1850FNL 330FWL <input checked="" type="checkbox"/> |  | 9. API Well No.<br>30-015-38655-00-X1                                            |
|                                                                                                                                                         |  | 10. Field and Pool, or Exploratory<br>EMPIRE                                     |
|                                                                                                                                                         |  | 11. County or Parish, and State<br>EDDY COUNTY, NM                               |

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                                |                                           |                                                    |                                                               |
|-------------------------------------------------------|-----------------------------------------------|-------------------------------------------|----------------------------------------------------|---------------------------------------------------------------|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize              | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off                       |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing         | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity                       |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair        | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other Drilling Operations |
|                                                       | <input type="checkbox"/> Change Plans         | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon       |                                                               |
|                                                       | <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |                                                               |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

**Drilling:**

06-29-11 Spud 16 inch hole.

06-30-11 Ran 11.75 inch 42# H40 STC @ 299. Cemented with lead 200 sx C, tail 225 sx C, circ 104 sx, WOC 20 hrs, test to 1400# for 30 min, ok.

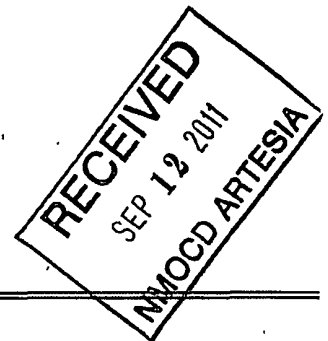
07-06-11 TD 7.875 inch hole @ 4703.

07-07-11 Ran 5.5 inch 17# L80 BTC @ 4703. Cemented with lead 725 sx 50-50 C, tail 225 sx C, circ 90 sx, tested to 3000# for 30 min, ok, RR.

**Completion:**

07-27-11 Perfed Blinberry 4196-4588 1 spf, 40 holes.

08-04-11 Frac with 845,350 gal Slickwater &amp; 318,235# 40/70 White Sand. Set CBP @ 4160. Perf Paddock 3796-4116 4 spf, 52 holes.

Accepted for record - NMOC  
9-14-11

|                                                                                                                                                                                                                                                                                     |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 14. Thereby certify that the foregoing is true and correct.<br>Electronic Submission #116301 verified by the BLM Well Information System<br>For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad<br>Committed to AFMSS for processing by KURT SIMMONS on 08/30/2011 (11KMS2416SE) |                  |
| Name (Printed/Typed) NATALIE E KRUEGER                                                                                                                                                                                                                                              | Title REGULATORY |
| Signature (Electronic Submission)                                                                                                                                                                                                                                                   | Date 08/29/2011  |

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

|                                                                                                                                                                                                                                                           |                                      |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|-----------------|
| Approved By<br><b>ACCEPTED</b>                                                                                                                                                                                                                            | JAMES A AMOS<br>Title SUPERVISOR EPS | Date 09/04/2011 |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. |                                      | Office Carlsbad |

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #116301 that would not fit on the form**

**32. Additional remarks, continued**

08-05-11 Frac with 1,130,870 gal Slickwater & 479,174# 40/70 White Sand.

08-10-11 DO CBP & CO to PBTD @ 4585.

08-11-11 RIH with production tubing: 2.875 inch 6.5# J55 EUE @ 3710. RIH with rod pump. Turned to production.

08-21-11 First oil and gas production.

1538655

## CIMAREX ENERGY

Empire

Eddy County, NM

Bluetail "8" Federal #4

VH - Job #32K0711628

Survey: Actual

## SDI Standard Survey Report

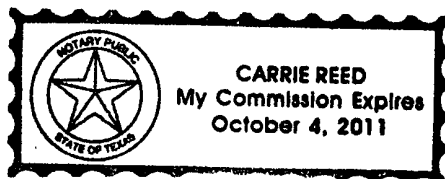
This survey is correct to the best of my knowledge and is supported by actual field data.

Robert

Notarized this date 1st of August, 2011.

Carrie Reed

Notary Signature  
County of Midland  
State of Texas



# Scientific Drilling International, Inc.

SDI Standard Survey Report



|                  |                         |                                     |                                     |
|------------------|-------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | CIMAREX ENERGY          | <b>Local Co-ordinate Reference:</b> | Well Bluetail "8" Federal #4.       |
| <b>Project:</b>  | Empire                  | <b>TVD Reference:</b>               | WELL @ 0 0usft (Original Well Elev) |
| <b>Site:</b>     | Eddy County, NM         | <b>MD Reference:</b>                | WELL @ 0 0usft (Original Well Elev) |
| <b>Well:</b>     | Bluetail "8" Federal #4 | <b>North Reference:</b>             | Grid                                |
| <b>Wellbore:</b> | VH - Job #32K0711628    | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | VH - Job #32K0711628    | <b>Database:</b>                    | EDM-Regulatory                      |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Empire                               |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                 |                     |                 |                          |                  |
|------------------------------|-----------------|---------------------|-----------------|--------------------------|------------------|
| <b>Site</b>                  | Eddy County, NM |                     |                 |                          |                  |
| <b>Site Position:</b>        |                 | <b>Northing:</b>    | 673,477 15 usft | <b>Latitude:</b>         | 32° 51' 4 550 N  |
| <b>From:</b>                 | Lat/Long        | <b>Easting:</b>     | 570,262 08 usft | <b>Longitude:</b>        | 104° 6' 16 340 W |
| <b>Position Uncertainty:</b> | 0 0 usft        | <b>Slot Radius:</b> | 0"              | <b>Grid Convergence:</b> | 0 12 °           |

|                             |                                                    |          |                            |                 |                      |                  |
|-----------------------------|----------------------------------------------------|----------|----------------------------|-----------------|----------------------|------------------|
| <b>Well</b>                 | Bluetail "8" Federal #4, Directional (Great White) |          |                            |                 |                      |                  |
| <b>Well Position</b>        | <b>+N/-S</b>                                       | 0 0 usft | <b>Northing:</b>           | 673,477 15 usft | <b>Latitude:</b>     | 32° 51' 4 550 N  |
|                             | <b>+E/-W</b>                                       | 0 0 usft | <b>Easting:</b>            | 570,262 08 usft | <b>Longitude:</b>    | 104° 6' 16 340 W |
| <b>Position Uncertainty</b> | 0 0 usft                                           |          | <b>Wellhead Elevation:</b> | usft            | <b>Ground Level:</b> | 0 0 usft         |

|                  |                      |                    |                        |                      |                            |
|------------------|----------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | VH - Job #32K0711628 |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>    | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010             | 7/1/2011           | 7 88                   | 60 67                | 48,956                     |

|                          |                                |                     |                     |                      |     |
|--------------------------|--------------------------------|---------------------|---------------------|----------------------|-----|
| <b>Design</b>            | VH - Job #32K0711628           |                     |                     |                      |     |
| <b>Audit Notes:</b>      |                                |                     |                     |                      |     |
| <b>Version:</b>          | 1 0                            | <b>Phase:</b>       | ACTUAL              | <b>Tie On Depth:</b> | 0 0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Direction (°)</b> |     |
|                          | 0 0                            | 0 0                 | 0 0                 | 359 80               |     |

|                       |                  |                               |                  |                    |  |
|-----------------------|------------------|-------------------------------|------------------|--------------------|--|
| <b>Survey Program</b> | <b>Date</b>      | 8/25/2011                     |                  |                    |  |
| <b>From (usft)</b>    | <b>To (usft)</b> | <b>Survey (Wellbore)</b>      | <b>Tool Name</b> | <b>Description</b> |  |
| 129 0                 | 1,072 0          | Actual (VH - Job #32K0711628) | Keeper           | Keeper Gyro        |  |

| Survey                |                 |             |                     |                    |                  |                     |                         |
|-----------------------|-----------------|-------------|---------------------|--------------------|------------------|---------------------|-------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | True Vertical Depth | North/South (usft) | East/West (usft) | Closure Azimuth (°) | Closure Distance (usft) |
| 0 0                   | 0 00            | 0 00        | 0 0                 | 0 0                | 0 0              | 0 00                | 0 0                     |
| 129 0                 | 0 57            | 320 94      | 129 0               | 0 5                | -0 4             | 320 94              | 0 6                     |
| 220 6                 | 0 66            | 333 55      | 220 6               | 1 3                | -0 9             | 325 03              | 1 6                     |
| 312 3                 | 0 72            | 339 90      | 312 3               | 2 3                | -1 4             | 329 82              | 2 7                     |
| 399 9                 | 0 59            | 338 67      | 399 9               | 3 3                | -1 7             | 332 39              | 3 7                     |
| 490 5                 | 0 58            | 6 08        | 490 5               | 4 2                | -1 8             | 336 24              | 4 6                     |
| 583 1                 | 0 57            | 46 88       | 583 1               | 4 9                | -1 4             | 343 68              | 5 2                     |
| 675 0                 | 0 78            | 43 47       | 675 0               | 5 7                | -0 7             | 353 17              | 5 8                     |
| 766 8                 | 0 77            | 50 91       | 766 8               | 6 6                | 0 2              | 1 96                | 6 6                     |
| 858 6                 | 0 64            | 50 10       | 858 5               | 7 3                | 1 1              | 8 57                | 7 4                     |
| 950 4                 | 0 56            | 71 40       | 950 3               | 7 7                | 1 9              | 13 89               | 8 0                     |
| 1,042 3               | 0 50            | 86 47       | 1,042 2             | 7 9                | 2 7              | 19 11               | 8 4                     |

# Scientific Drilling International, Inc.

## SDI Standard Survey Report



|                  |                         |                                     |                                     |
|------------------|-------------------------|-------------------------------------|-------------------------------------|
| <b>Company:</b>  | CIMAREX ENERGY          | <b>Local Co-ordinate Reference:</b> | Well Bluetail "8" Federal #4        |
| <b>Project:</b>  | Empire                  | <b>TVD Reference:</b>               | WELL @ 0 0usft (Original Well Elev) |
| <b>Site:</b>     | Eddy County, NM         | <b>MD Reference:</b>                | WELL @ 0 0usft (Original Well Elev) |
| <b>Well:</b>     | Bluetail "8" Federal #4 | <b>North Reference:</b>             | Grid                                |
| <b>Wellbore:</b> | VH - Job #32K0711628    | <b>Survey Calculation Method:</b>   | Minimum Curvature                   |
| <b>Design:</b>   | VH - Job #32K0711628    | <b>Database:</b>                    | EDM-Regulatory                      |

| Survey                   |                    |                |                        |                       |                     |                        |                            |
|--------------------------|--------------------|----------------|------------------------|-----------------------|---------------------|------------------------|----------------------------|
| Measured Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | True Vertical<br>Depth | North/South<br>(usft) | East/West<br>(usft) | Closure Azimuth<br>(°) | Closure Distance<br>(usft) |
| 1,072 0                  | 0 50               | 86 87          | 1,071 9                | 7 9                   | 3 0                 | 20 72                  | 8 5                        |

**Cimarex Energy Co. of Colorado**

Bluetail 8 Fed 4

SHL: 2160' FNL &amp; 330' FWL

BHL: 1650' FNL &amp; 330' FWL

Sec 8 - T17S - R29E, Eddy Co NM

M. Ketter

30-015-

8/3/2011

11-3/4" 42# H40 STC csg @ 299'

Cmt'd w/425 sxs; Circl'd cmt

| Quantity | Description                 | Length  | Setting Depth |
|----------|-----------------------------|---------|---------------|
|          | KB                          | 18      | 18.00         |
| 111      | 2-7/8" 6 5# J55 8rd EUE Tbg | 3617.91 | 3635.91       |
| 1        | Collar                      | 0.50    | 3636.41       |
| 1        | Lift Sub                    | 8.10    | 3644.51       |
| 1        | Pump                        | 28.83   | 3673.34       |
| 1        | Tag Bar                     | 1.25    | 3674.59       |
| 1        | 2-7/8" 6 5# J55 8rd EUE Tbg | 32.53   | 3707.12       |
|          |                             | 2.85    | 3709.97       |

| Quantity | Description                                   | Length  | Total Depth |
|----------|-----------------------------------------------|---------|-------------|
| 1        | PR                                            | 22.00   | 22.00       |
| 1        | 1" Drive Rod w/ 7/8" pin                      | 25.00   | 47.00       |
| 24       | 1" Drive Rod w/ 7/8" pin (3 molded guides/rd) | 600.00  | 647.00      |
| 95       | 1" Drive Rod w/ 7/8" pin                      | 2375.00 | 3022.00     |
| 22       | 1" Drive Rod w/ 7/8" pin (3 molded guides/rd) | 550.00  | 3572.00     |
| 1        | 1" Pony Rod                                   | 25.00   | 3597.00     |
| 1        | Rotor                                         | 28.00   | 3625.00     |

Sliding @ 1100'

**Paddock Perfs:**

3796'-4116'

**Blinebry Perfs:**4196', 4200', 21', 26', 30', 36', 38', 41', 52', 61', 75',  
82', 92', 4305', 13', 36', 39', 47', 53', 75', 60', 81',  
4403', 16', 20', 37', 53', 60', 70', 82', 4504', 4523', 28',  
39', 44', 50', 66', 88'

5-1/2" 17# L80 BTC csg @ 4,703'

Cmt'd w/950 sxs, Circl'd cmt

TD: 4703'

PBDT: 4654'