

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCD-Artesia

FORM APPROVED  
OMB No 1004-0137  
Expires July 31, 20105. Lease Serial No.  
NMLC068960

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No

8. Lease Name and Well No.  
BLUTAIL 8 FEDERAL 29. API Well No.  
30-015-38654-00-S110. Field and Pool, or Exploratory  
EMPIRE ; SWR-YEBO EAST  
11. Sec., T., R., M., or Block and Survey  
or Area Sec 8 T17S R29E Mer NMP12. County or Parish  
EDDY 13. State  
NM17. Elevations (DF, KB, RT, GL)\*  
3640 GL1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other  
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.  
Other2. Name of Operator Contact NATALIE E KRUEGER  
CIMAREX ENERGY COMPANY OF OK Mail: nkrueger@cimarex.com3. Address 600 NORTH MARIENFELD STREET SUITE 600  
MIDLAND, TX 79701 3a. Phone No. (include area code)  
Ph: 432-620-1936

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

Sec 8 T17S R29E Mer NMP  
At surface SWNW Lot E 1659FNL 970FWL

At top prod interval reported below

At total depth

14. Date Spudded  
05/18/2011 15. Date T.D. Reached  
05/14/2011 16. Date Completed  
☐ D & A ☒ Ready to Prod  
06/03/2011

18. Total Depth: MD 4700 TVD 19. Plug Back T.D.: MD 4659 TVD 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
POROSITY&RESIST22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit analysis)  
Directional Survey? ☒ No ☐ Yes (Submit analysis)

## 23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
16.000	11.750 H-40	42.0	0	301		425		0	
7.875	5.500 N-80	17.0	0	4700		950			

## 24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	4533							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	3795	4116	3795 TO 4116		52	Open, Paddock
B) BLINEBRY	4185	4523	4185 TO 4523		41	Open, Blinbry
C)						
D)						

## 27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
3795 TO 4116	2187642 gal slickwater, 849908# 30/70 White sand.
4185 TO 4523	908883 gal slickwater, 334039# 30/70 White sand.

## 28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
06/15/2011	07/31/2011	24	→	14.0	94.0	494.0	35.9	1.27	ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
24/64	SI	75.0	→	14	94	494	6714	POW	

## 28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #115904 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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ACCEPTED FOR RECORD

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE  
ELECTRIC PUMPING UNITRECLAMATION  
DUE 12-3-11

## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Sold, used for fuel, vented, etc.)  
SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas Depth
BLINEBRY TUBB	4366 5145	5145	DOLOMITE SANDSTONE	TOP SALT BASE OF SALT SAN ANDRES GLORIETA BLINEBRY TUBB	200 700 2397 3801 4366 5145

## 32. Additional remarks (include plugging procedure):

The well test date is more than 30 days past the date of first production because gas sales began on 07-24-11, 37 days after first oil production on 06-17-11.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7. Other      |                       |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)

Electronic Submission #115904 Verified by the BLM Well Information System.

For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 08/24/2011 (11KMS2399SE)

Name (please print) NATALIE E KRUEGER

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 08/24/2011

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.

**\*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\* REVISED \*\***



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

May 24, 2011

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

30-015-38654

RE: Bluetail 8 Federal #2  
1659' FNL & 970' FWL  
Sec. 8, T17S, R29E  
Eddy County, New Mexico

Dear Sir,

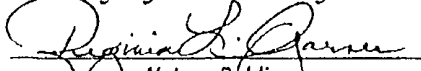
The attached is the Deviation Survey for the above captioned well.

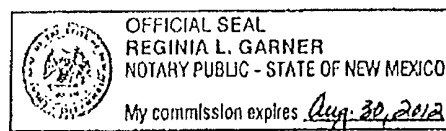
Very truly yours,

  
Eddie C. LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 24<sup>th</sup> day of May, 2011.

  
Regina L. Garner  
Notary Public



# Pason DataHub Deviation Survey  
# Well Dossier 1304895989 - Bluetail 8 Fed #2  
#

#	Date	Depth	Deviation
	5/9/2011	231	0.40
	5/10/2011	456	0.10
	5/10/2011	823	0.40
	5/11/2011	1200	0.50
	5/11/2011	1674	0.50
	5/11/2011	2146	0.50
	5/12/2011	2558	0.50
	5/12/2011	2716	0.50
	5/13/2011	3188	0.50
	5/13/2011	3659	0.50
	5/14/2011	4038	0.50
	5/14/2011	4511	0.50
	5/15/2011	4630	0.50

# EOF

District I  
1625 N French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Rd., Aztec, NM 87410  
District IV  
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals & Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-104  
Revised June 10, 2003

Submit to Appropriate District Office  
5 Copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld., Ste. 600 ✓ Midland, TX 79701		<sup>2</sup> OGRID Number 162683 ✓
		<sup>3</sup> Reason for Filing Code/ Effective Date NW / 06-15-11
<sup>4</sup> API Number 30-015-38654 ✓	<sup>5</sup> Pool Name Empire; Glorieta-Yeso, East	<sup>6</sup> Pool Code 96610
<sup>7</sup> Property Code 38549 ✓	<sup>8</sup> Property Name Bluetail 8 Federal ✓	<sup>9</sup> Well Number 002 ✓

II. <sup>10</sup> 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	17S	29E		1659	North	970	West	Eddy ✓

<sup>11</sup> Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Lse Code F ✓	<sup>13</sup> Producing Method Code P ✓	<sup>14</sup> Gas Connection Date 07-24-11	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date				

III. Oil and Gas Transporters

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> POD	<sup>21</sup> O/G	<sup>22</sup> POD ULSTR Location and Description
21778	Sunoco Inc R&M PO Box 2039 Tulsa, OK		O ✓	
180055	Duke Energy Field Services 6120 S. Yale Ave. Ste 1100 Tulsa, OK		G ✓	

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IV. Produced Water

<sup>23</sup> POD	<sup>24</sup> POD ULSTR Location and Description Same as above
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V. Well Completion Data

<sup>25</sup> Spud Date	<sup>26</sup> Ready Date	<sup>27</sup> TD	<sup>28</sup> PBTB	<sup>29</sup> Perforations	<sup>30</sup> DIIC, MC
05-18-11 ✓	06-03-11 ✓	4700 ✓	4659	Blinebry 4185-4523 Paddock 3795-4116	
<sup>31</sup> Hole Size	<sup>32</sup> Casing & Tubing Size	<sup>33</sup> Depth Set	<sup>34</sup> Sacks Cement		
16	11.75	301	425		
7.875	5.5	4700	950		
	2.375	4533			

VI. Well Test Data

<sup>35</sup> Date New Oil	<sup>36</sup> Gas Delivery Date	<sup>37</sup> Test Date	<sup>38</sup> Test Length	<sup>39</sup> Tbg. Pressure	<sup>40</sup> Csg. Pressure
06-15-11 ✓	07-24-11	07-31-11 ✓	24 hrs	150	75
<sup>41</sup> Choke Size	<sup>42</sup> Oil	<sup>43</sup> Water	<sup>44</sup> Gas	<sup>45</sup> AOF	<sup>46</sup> Test Method
24/64	14 ✓	494 ✓	94 ✓		Producing

<sup>47</sup> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Natalie Krueger*

Printed name: Natalie Krueger

Title: Regulatory Analyst

E-mail Address: [nkrueger@cimarex.com](mailto:nkrueger@cimarex.com)

Date: August 24, 2011

Phone: 432-620-1936

OIL CONSERVATION DIVISION

Approved by:

*J. C. Shepard*  
Geologist

Title:

Approval Date:

JAN 30 2012

*dm*