

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

*operator*

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|                                                                                                                                                                                                                                                                                                                              |  |                                                                                        |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------|--|
| 1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other                                                                                                                                                                  |  | 5. Lease Serial No.<br>NNNM0560353                                                     |  |
| b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.<br>Other _____                                                                                                |  | 6. If Indian, Allottee or Tribe Name                                                   |  |
| 2. Name of Operator<br>CIMAREX ENERGY COMPANY OF. Contact: NATALIE E KRUEGER<br>Email: nkrueger@cimarex.com                                                                                                                                                                                                                  |  | 7. Unit or CA Agreement Name and No.                                                   |  |
| 3. Address 600 NORTH MARIENFELD STREET, SUITE 600<br>MIDLAND, TX 79701                                                                                                                                                                                                                                                       |  | 8. Lease Name and Well No.<br>CRESCENT HALE 1 FEDERAL 2                                |  |
| 3a. Phone No. (include area code)<br>Ph: 432-620-1936                                                                                                                                                                                                                                                                        |  | 9. APN Well No.<br>30-015-38524-00-S1                                                  |  |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)*<br>Sec 1 T19S R30E Mer NMP<br>At surface NENW 330FNL 2310FWL<br>At top prod interval reported below:<br>Sec 1 T19S R30E Mer NMP<br>At total depth SENW 330FSL 2023FWL                                                             |  | 10. Field and Pool, or Exploratory<br>HACKBERRY                                        |  |
| 14. Date Spudded<br>03/19/2011                                                                                                                                                                                                                                                                                               |  | 15. Date T.D. Reached<br>04/09/2011                                                    |  |
| 16. Date Completed<br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.<br>05/18/2011                                                                                                                                                                                                        |  | 17. Elevations (DF, KB, RT, GL)*<br>3515 GL                                            |  |
| 18. Total Depth: MD 13268<br>TVD 8702                                                                                                                                                                                                                                                                                        |  | 19. Plug Back T.D.: MD<br>TVD                                                          |  |
| 20. Depth Bridge Plug Set: MD<br>TVD                                                                                                                                                                                                                                                                                         |  | 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>POROSITY&RESIST |  |
| 22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 |
|-----------|-------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 17.500    | 13.375 H-40 | 48.0        | 0        | 515         |                      | 500                         |                   | 0           |               |
| 12.250    | 9.625 J-55  | 40.0        | 0        | 4020        |                      | 1400                        |                   | 0           |               |
| 8.750     | 5.500 P-110 | 17.0        | 0        | 13268       |                      | 2030                        |                   | 2464        |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |
|           |             |             |          |             |                      |                             |                   |             |               |

24. Tubing Record

| Size  | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |
|-------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|
| 2.875 | 8355           |                   |      |                |                   |      |                |                   |

25. Producing Intervals

26. Perforation Record

| Formation      | Top  | Bottom | Perforated Interval | Size | No. Holes | Perf. Status      |
|----------------|------|--------|---------------------|------|-----------|-------------------|
| A) BONE SPRING | 8749 | 13218  | 8749 TO 9456        |      | 40        | Open, Bone Spring |
| B)             |      |        | 9689 TO 10395       |      | 40        | Open, Bone Spring |
| C)             |      |        | 10629 TO 11336      |      | 40        | Open, Bone Spring |
| D)             |      |        | 11569 TO 12276      |      | 40        | Open, Bone Spring |

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

| Depth Interval | Amount and Type of Material                   |
|----------------|-----------------------------------------------|
| 8749 TO 9456   | 171,592 gal 20# borate XL, 249,007# 20/40 SLC |
| 9689 TO 10395  | 171,592 gal 20# Borate XL, 249,007# 20/40 SLC |
| 10629 TO 11336 | 304,381 gal 20# Borate XL, 353,165# 20/40 SLC |
| 11569 TO 12276 | 181,806 gal 20# Borate XL, 254,888# 20/40 SLC |

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         |
|---------------------|----------------------|----------------|-----------------|---------|---------|-----------|------------------------|-------------|---------------------------|
| 05/19/2011          | 06/11/2011           | 24             | →               | 266.0   | 921.0   | 1483.0    | 39.3                   | 1.31        | CARECOTIC HUMP SUBSURFACE |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press. SI | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio          | Well Status |                           |
| 38/64               | 400                  | 250.0          | →               | 266     | 921     | 1483      | 3462                   | 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 |
|---------------------|----------------------|----------------|-----------------|---------|---------|-----------|------------------------|-------------|-------------------|
|                     |                      |                | →               |         |         |           |                        |             | RECLAMATION       |
| Choke Size          | Tbg. Press. Flwg. SI | Csg. Press. SI | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas:Oil Ratio          | Well Status |                   |
|                     |                      |                | →               |         |         |           |                        |             | DUE 11-18-11      |

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

ELECTRONIC SUBMISSION #116386 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

## 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 |
|--------------|------|--------|------------------------------|--------------|-----------------|
| YATES        | 2210 | 2430   | SAND                         | YATES        | 2210            |
| SEVEN RIVERS | 2430 | 3080   | SHALE                        | SEVEN RIVERS | 2430            |
| QUEEN        | 3080 | 4030   | SAND                         | QUEEN        | 3080            |
| DELAWARE     | 4030 | 4030   | SAND                         | DELAWARE     | 4030            |
| BONE SPRING  | 6112 |        | SAND                         | BONE SPRING  | 6112            |

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

Additional Perf Interval:  
8749-9456 0.42 40 holes, frac with 171,592 gal 20# Borate XL & 249,007# 20/40 SLC

Logs to be mailed to BLM.

## 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 #116386 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 08/30/2011 (11KMS2418SE)

Name (please print) NATALIE E KRUEGER

Title REGULATORY

Signature (Electronic Submission)

Date 08/29/2011

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 \*\***

**Additional data for transaction #116386 that would not fit on the form**

**26. Perforation Record, continued**

| Perf Interval  | Size | No. Holes | Perf Status       |
|----------------|------|-----------|-------------------|
| 12501 TO 13218 |      | 40        | Open, Bone Spring |

**27. Acid, Fracture, Treatment, Cement Squeeze, etc., continued**

| Depth Interval | Amount and Type of Material                   |
|----------------|-----------------------------------------------|
| 12501 TO 13218 | 193,787 gal 20# Borate XL, 254,379# 20/40 SLC |