

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., 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

Form C-104  
Revised August 1, 2011

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Submit one copy to appropriate District Office

AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

<sup>1</sup> Operator name and Address Cimarex Energy Co. 600 N. Marienfeld Street, Suite 600 Midland, TX 79701		<sup>2</sup> OGRID Number 215099
		<sup>3</sup> Reason for Filing Code/ Effective Date NW - 6/22/14
<sup>4</sup> API Number 30 - 015 - 42093	<sup>5</sup> Pool Name Hackberry; BS, NW	<sup>6</sup> Pool Code 97020
<sup>7</sup> Property Code 40394	<sup>8</sup> Property Name Hackberry 23 Federal	<sup>9</sup> Well Number 2H

**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
L	24	19S	30E		2280	South	180	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
L	22	19S	30E		1955	South	352	West	Eddy

<sup>12</sup> Lse Code	<sup>13</sup> Producing Method Code	<sup>14</sup> Gas Connection Date	<sup>15</sup> C-129 Permit Number	<sup>16</sup> C-129 Effective Date	<sup>17</sup> C-129 Expiration Date
F	P	6/23/14			

**III. Oil and Gas Transporters**

<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
21778	Sunoco Inc. R & M P O Box 2039; Tulsa OK	
226737	DCP Midstream. 370 17th St., Ste 2500 Denver CO	

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
AUG 07 2014  
RECEIVED

**IV. Well Completion Data**

<sup>21</sup> Spud Date	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBDT	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
4/19/14	6/22/14	18640 8376	18568	8760-18555	
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
26"	20"	328'	928		
17 1/2"	13 3/8"	1928'	1350		
12 1/4"	9 5/8"	3612	1100		
8 1/2"	5 1/2"	18640	3765 TOC @ 0'		
	2 7/8"	7872			

**V. Well Test Data**

<sup>31</sup> Date New Oil	<sup>32</sup> Gas Delivery Date	<sup>33</sup> Test Date	<sup>34</sup> Test Length	<sup>35</sup> Tbg. Pressure	<sup>36</sup> Csg. Pressure
6/23/14	6/23/14	6/28/14	24 hours	360	130
<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas	<sup>41</sup> Test Method	
26/64	750	1217	934		

<sup>42</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: *Aricka Easterling*  
Printed name: Aricka Easterling  
Title: Regulatory Analyst  
E-mail Address: aeasterling@cimarex.com  
Date: 7/24/14  
Phone: 918-560-7060

OIL CONSERVATION DIVISION  
Approved by: *J.C. Shepard*  
Title: "Geologist"  
Approval Date: 8-8-2014  
Pending BLM approvals will subsequently be reviewed and scanned

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

5. Lease Serial No.  
NMNM06765

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
HACKBERRY 23 FEDERAL 2H

2. Name of Operator  
CIMAREX ENERGY COMPANY  
Contact: ARICKA EASTERLING  
E-Mail: aeasterling@cimarex.com

9. API Well No.  
30-015-42093

3a. Address  
202 S. CHEYENNE, SUITE 1000  
TULSA, OK 74103

3b. Phone No. (include area code)  
Ph: 918-560-7060

10. Field and Pool, or Exploratory  
HACKBERRY; BS,NW ✓

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 24 T19S R30E NWSW 2280FSL 180FWL

11. County or Parish, and State  
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 recomplete 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.)

Completion :

6/2/14 Set CBP @ 18568'. Test casing to 8500 psi for 30 minutes. Test Good. TOC @ 0'.  
6/2/14 to 6/9/14 Perf Bone Spring @ 8760-18555. 864 holes. Frac w/ 4,339,986 Gal frac fluid & 5,937,685 # Sand.  
6/10/14 to 6/12/14 Mill out plugs from 9239 to 16415, CFP's from 16967-18071 & CBP @ 18568 not milled. PBDT @ 18568.  
6/22/14 RIH w/ 2 7/8 tubing & pump. Set @ 7872. Turn well over to production.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
AUG 07 2014  
RECEIVED

Accepted for record  
NMOCD TEL 8.8.14

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #254680 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) ARICKA EASTERLING	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 07/25/2014

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

Approved By _____	Title _____
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 _____

Pending BLM approvals will subsequently be reviewed and scanned

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

NM OIL CONSERVATION  
ARTESIA DISTRICT  
AUG 07 2014

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
NMNM06765

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion  New Well  Work Over  Deepen  Plug-Back  Diff. Resvr.  
 Other \_\_\_\_\_

2. Name of Operator: CIMAREX ENERGY COMPANY Contact: ARICKA EASTERLING  
 E-Mail: aeasterling@cimarex.com

3. Address: 202 S. CHEYENNE, SUITE 1000 TULSA, OK 74103  
 3a. Phone No. (include area code) Ph: 918-560-7060

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface: Sec 24 T19S R30E Mer NWSW 2280FSL 180FEL  
 At top prod interval reported below: Sec 24 T19S R30E Mer NWSW 2280FSL 180FEL  
 At total depth: Sec 22 T19S R30E Mer NWSW 1955FSL 352FWL

6. If Indian, Allottee or Tribe Name  
 7. Unit or CA Agreement Name and No.  
 8. Lease Name and Well No. HACKBERRY 23 FEDERAL COM 2H  
 9. API Well No. 30-015-42093  
 10. Field and Pool, or Exploratory HACKBERRY; B.S., NW  
 11. Sec., T., R., M., or Block and Survey or Area Sec 24 T19S R30E Mer  
 12. County or Parish EDDY 13. State NM  
 14. Date Spudded 04/19/2014 15. Date T.D. Reached 05/16/2014 16. Date Completed  D & A  Ready to Prod. 06/22/2014  
 17. Elevations (DF, KB, RT, GL)\* 3252 GL  
 18. Total Depth: MD 18640 TVD 8378 19. Plug Back T.D.: MD 18568 TVD 18568 20. Depth Bridge Plug Set: MD TVD  
 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) DSN & DLL 22. 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
26.000	20.000 J55	94.0	0	328		928		0	21
17.500	13.375 J55	54.0	0	1928		1350		0	328
12.250	9.625 J55	40.0	0	3612		1100		0	90
8.500	5.500 P110	17.0	0	18640		3765		0	91

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	7872							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8760	18555	8760 TO 18555	0.540	864	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8760 TO 18555	FRAC WITH 4,339,986 GAL TOTAL FLUID & 5,937,685 # 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
06/23/2014	06/28/2014	24	▶	750.0	934.0	1217.0	36.9		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI 360	130.0	▶	750	934	1217	1245	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.	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 #256012 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

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
DELAWARE BONE SPRING	3370 6262	6262 18844	SANDSTONE; WATER SNDSTNE, SHL, LMSTN: OIL & WATER	RUSTLER TOP OF SALT DELAWARE BONE SPRING	280 580 3370 6262

32. Additional remarks (include plugging procedure):

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 #256012 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (please print) ARICKA EASTERLING Title REGULATORY ANALYST

Signature (Electronic Submission) Date 08/06/2014

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***