

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. of Colorado 600 N. Marienfeld St., Ste. 600 Midland, TX 79701		<sup>2</sup> OGRID Number 162683
		<sup>3</sup> Reason for Filing Code/ Effective Date NW 12/2/14
<sup>4</sup> API Number 30 -015-41849	<sup>5</sup> Pool Name Cottonwood Draw; Bone Spring	<sup>6</sup> Pool Code 97494
<sup>7</sup> Property Code 37374	<sup>8</sup> Property Name Marquardt Federal	<sup>9</sup> Well Number 11H

**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
C	13	25S	26E		330	North	1750	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
C	12	25S	26E		333	North	2128	West	Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 12/5/14	<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> O/G/W
21778	Sunoco Inc. R & M P O Box 2039; Tulsa OK	
226737	DCP Mistream 370 17th St, Ste 2500; Denver CO	
<b>NM OIL CONSERVATION</b> ARTESIA DISTRICT MAR 17 2015 RECEIVED		

**IV. Well Completion Data**

<sup>21</sup> Spud Date 9/10/14	<sup>22</sup> Ready Date 12/2/14	<sup>23</sup> TD 12347 / 7175	<sup>24</sup> PBDT 12334	<sup>25</sup> Perforations 7782-12318	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17 1/2	13 3/8	425	500		
12 1/4	9 5/8	1886	870		
8 3/4 & 8 1/2	5 1/2	12347	2490 - TOC 1550'		
	2-3/8	6548			

**V. Well Test Data**

<sup>31</sup> Date New Oil 12/5/14	<sup>32</sup> Gas Delivery Date 12/5/15 / 14	<sup>33</sup> Test Date 12/11/14	<sup>34</sup> Test Length 24 hrs	<sup>35</sup> Tbg. Pressure 700	<sup>36</sup> Csg. Pressure 550
<sup>37</sup> Choke Size 30/64	<sup>38</sup> Oil 746	<sup>39</sup> Water 1213	<sup>40</sup> Gas 1228	<sup>41</sup> Test Method	

<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: <i>Aricka Easterling</i>	OIL CONSERVATION DIVISION Approved by: <i>[Signature]</i> Title: <i>[Signature]</i> Approval Date: <i>4/8/15</i>
Printed name: Aricka Easterling Title: Regulatory E-mail Address: aeasterling@cimarex.com	Pending BLM approvals will subsequently be reviewed and scanned
Date: 2-5-15 Phone: 918-560-7060	

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.  
NMNM14124

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.  
MARQUARDT FEDERAL 11H

9. API Well No.  
30-015-41849

10. Field and Pool, or Exploratory  
BONE SPRING

11. County or Parish, and State  
EDDY COUNTY, NM

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
CIMAREX ENERGY COMPANY

Contact: ARICKA EASTERLING  
E-Mail: aeasterling@cimarex.com

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

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 13 T25S R26E SESW 360FSL 1750FWL

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 recompleat 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  
09-10-14 Spud well. TD 17-1/2 surface hole @ 425.  
09-11-14 RIH w/ 13-3/8, 48#, J55, STC csg & set @ 425. Mix & pump 500 Sx Halcem C, 14.8 ppg, 1.36 yld. Circ 208 sx to surface. WOC 12+ hrs.  
09-13-14 Test csg to 1500# for 30 mins. OK.  
09-14-14 TD 12-1/4 hole @ 1886.  
09-15-14 RIH w/ 9-5/8, 36#, J55, LTC csg & set @ 1886. Mix & pump lead: 735 sx Class C, 12.9 ppg, 1.85 yld; tail w/ 135 sx Class C, 14.8 ppg, 1.36 yld. Circ 212 sx to surface. WOC 8 hrs.  
09-16-14 Test csg to 1500# for 30 mins. Ok.  
09-20-14 Drill to 6383. Circ. Waiting on road to open to resume ops.  
09-24-14 Evacuate location. Notified BLM. Secure rig as approved by BLM. Move all to safety.  
10-03-14 Back on location. Circ bottoms up.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
MAR 17 2015

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #295064 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 03/16/2015

RECEIVED

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USE

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

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 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.

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

**Additional data for EC transaction #295064 that would not fit on the form**

**32. Additional remarks, continued**

10-10-14 TD 8-3/4 hole @ 10629. TOH w/ curve assembly. TIH w/ 8-1/2 lateral assembly, drilling lateral.

10-12-14 TD 8-1/2 hole @ 12347. LDDP.

10-14-14 RIH w/ 5-1/2, 17#, L80, LTC/BTC csg & set @ 12347. Mix & pump lead: 1000 sx Class H, 10.8 ppg, 2.783 yld; tail w/ 1490 sx VersaCem H, 14.5 ppg, 1.24 yld. Circ 30 sx to surface. Lost returns. WOC 8 + hrs.

10-15-14 Run temp survey ? TOC @ 1550. BLM J. Mason approved TOC. Release rig.

Completion

11-13-14 Test csg to 7500# for 30 mins. OK. SI pending frac.

11-24-14 to

11-25-14 Perf Bone Spring @ 7782-12318, .54, 360 holes. Frac w/ 3527229 gals fluid; 5012467# sand.

11-27-14 to

11-28-14 Mill out plugs and CO to-PBTD @ 12334. Flowback well.

12-02-14 RIH w/ 2-3/8 tbg, pkr & gas lift valves & set @ 6548. GLV @ 1741, 3239, 4506, 5450, 6005, 6494. Turn well to production.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMNM14124

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

6. If Indian, Allottee or Tribe Name \_\_\_\_\_  
 7. Unit or CA Agreement Name and No. \_\_\_\_\_

2. Name of Operator: CIMAREX ENERGY COMPANY Contact: ARICKA EASTERLING E-Mail: aeasterling@cimarex.com  
 8. Lease Name and Well No. MARQUARDT FEDERAL 11H

3. Address: 202 S. CHEYENNE, SUITE 1000 TULSA, OK 74103 3a. Phone No. (include area code) Ph: 918-560-7060  
 9. API Well No. 30-015-41849

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface Sec 13 T25S R26E Mer NENW 360FNL 1750FWL  
 At top prod interval reported below Sec 13 T25S R26E Mer NENW 360FNL 1750FWL  
 At total depth Sec 12 T25S R26E Mer NENW 333FNL 2128FWL

10. Field and Pool, or Exploratory COTTONWOOD DRAW; BS  
 11. Sec., T., R., M., or Block and Survey or Arca Sec 13 T25S R26E Mer  
 12. County or Parish EDDY 13. State NM

14. Date Spudded 09/10/2014 15. Date T.D. Reached 10/12/2014 16. Date Completed  D & A  Ready to Prod. 12/02/2014  
 17. Elevations (DF, KB, RT, GL)\* 3276 GL

18. Total Depth: MD 12347 TVD 7175 19. Plug Back T.D.: MD 12334 TVD 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	48.0	0	425		500		0	208
12.250	9.625 J55	36.0	0	1886		870		0	212
8.500	5.500 L80	17.0	0	12347		2490		1550	0

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	6548	6548						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7782	12318	7782 TO 12318	0.540	360	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7782 TO 12318	FRAC WITH 3,527,229 GAL TOTAL FLUID & 5,012,467 # SAND.
	NM OIL CONSERVATION ARTESIA DISTRICT
	MAR 23 2015

28. Production - Interval A

RECEIVED

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/02/2014	12/11/2014	24	→	746.0	1228.0	1213.0	45.5		GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
30/64	SI 700	550.0	→	746	1228	1213	1646	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
			→					
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well
	SI		→					

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #295066 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
BELL CANYON	1988	2821	WATER	SALADO	1183
CHERRY CANYON	3035	3690	WATER	CASTILLE	1732
BONE SPRING	5532	6143	WATER & GAS	BELL CANYON	1932
BONE SPRING	6947	7205	WATER, GAS, OIL	CHERRY CANYON	2957
				BRUSHY CANYON	4017
				BONE SPRING	5413

32. Additional remarks (include plugging procedure):  
 Logs were sent to Carlsbad Office via Fed Ex.

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 #295066 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 03/16/2015

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