

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

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Form C-104  
Revised August 1, 2011

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

Submit the report to appropriate District Office  
JUN 27 2016

AMENDED REPORT

RECEIVED

**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 New: 6/2/2016
<sup>4</sup> API Number 30 - 015 - 43487	<sup>5</sup> Pool Name Cottonwood Draw, B.S.	<sup>6</sup> Pool Code 97494
<sup>7</sup> Property Code 34114	<sup>8</sup> Property Name Gadwall 18 Federal Com	<sup>9</sup> Well Number 4H

**II. <sup>10</sup> Surface Location**

Ul or lot no. Lot 1	Section 18	Township 25S	Range 27E	Lot Idn	Feet from the 130'	North/South Line North	Feet from the 611'	East/West line West	County Eddy
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**<sup>11</sup> Bottom Hole Location**

UL or lot no. Lot 4	Section 18	Township 25S	Range 27E	Lot Idn	Feet from the 330'	North/South line South	Feet from the 634'	East/West line West	County Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 6/6/2016	<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 Midstream. 370 17th St., Ste 2500 Denver CO	

**IV. Well Completion Data**

<sup>21</sup> Spud Date 1/1/2016	<sup>22</sup> Ready Date 06/04/2016	<sup>23</sup> TD 11719' <i>7266</i>	<sup>24</sup> PBSD 11711'	<sup>25</sup> Perforations 7370'-11686'	<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'	467'	517		
12 1/4"	9 5/8"	1890'	690		
8 3/4"/8 1/2"	5 1/2"	11719'	2120 TOC @ 0		
	2 3/8"	6723'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 06/05/2016	<sup>32</sup> Gas Delivery Date 06/06/2016	<sup>33</sup> Test Date 6/11/2016	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 720	<sup>36</sup> Csg. Pressure 280
<sup>37</sup> Choke Size 27	<sup>38</sup> Oil 329	<sup>39</sup> Water 1202	<sup>40</sup> Gas 520	<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>Amithy Crawford</i> Printed name: Amithy Crawford Title: Regulatory Analyst E-mail Address: acrawford@cimarex.com Date: 6/15/2016 Phone: 432-620-1909	OIL CONSERVATION DIVISION	
	Approved by: <i>Karen Sharp</i>	
	Title: <i>Bus Ops Spec-Adv</i>	
	Approval Date: <i>7-12-16</i>	

Pending BLM approvals will subsequently be reviewed and scanned

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUN 27 2016

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.  
NMNM111530

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.**

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
GADWALL 18 FEDERAL COM 4H

2. Name of Operator  
CIMAREX ENERGY CO. Contact: AMITHY E CRAWFORD  
E-Mail: acrawford@cimarex.com

9. API Well No.  
30-015-43487

3a. Address  
600 N. MARIENFELD SUITE 600  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 432-620-1909

10. Field and Pool, or Exploratory  
COTTONWOOD DRAW;BONESPRIN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 18 T25S R37E 130FNL 611FWL

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.)

5/20/2016 Test to 7000 psi. chart for 5 Min. Good Test. Tag PBDT @11,711'. Test 5 1/2" casing to 6650 psi. chart for 30 min. Good Test.  
5/25-27/2016 Perf Bone Spring from 7370'-11686'. 450 Holes, .46. Frac with 3864607 gal fluid and 6388965# sand  
5/31/2016 Mill out plugs and CO to PBDT  
6/1/2016 Shut in well pending tubing installation  
6/4/2016 RIH with 2 3/8" tubing and packer set at 6723'. GLVs @ 1488', 2633', 3159', 3652', 4144', 4637', 5130', 5657', 6150', 6643'.

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #342112 verified by the BLM Well Information System For CIMAREX ENERGY CO., sent to the Carlsbad**

Name (Printed/Typed) AMITHY E CRAWFORD Title REGULATORY ANALYST

Signature (Electronic Submission) Date 06/15/2016

THIS SPACE FOR FEDERAL OR STATE OFFICIAL APPROVAL

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 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 \*\***

**NM OIL CONSERVATION**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

ARTESIA DISTRICT

**JUN 27 2016**

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.*

**RECEIVED**

5. Lease Serial No.  
NMMN111530

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
GADWALL 18 FEDERAL COM 4H

9. API Well No.  
30-015-43487

10. Field and Pool, or Exploratory  
BONE SPRING

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

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

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 AVE, 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 18 T25S R27E NWNW 130FNL 611FWL

**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.)

**Drilling Ops:**

1/1/16 Spud Well. TD 17-1/2" hole @ 467'. RIH w/ 13-3/8", 48#, J55, ST&C Casing & set @ 467'. Mix and pump 517 sks class C, 14.8 ppg, 1.33 yield. Circulate 260 sks to surface. WOC 8 hrs.  
1/3/16 Test csg to 1500 psi for 30 min. Ok.  
1/4/16 TD 12-1/4" hole @ 1,890'. RIH w/ 9-5/8", 36#, J55, LT&C casing & set @ 1890'. Mix & pump lead: 530 sks, Class C, 13.5 ppg, yield 1.80; tail: 160 sks, Class C, 14.8, yield 1.33. Circulate 231 sks to surface. WOC 8+ hrs.  
1/5/16 Test Casing to 1500 psi for 30 minutes. Test Ok.  
1/6/16 TD 8-3/4 vertical hole @ 6500'. TIH w/ curve assembly  
1/7/16 TD 8-3/4 curve @ 7579. TOH w/ Curve assembly. TIH w/ 8-1/2 lateral assembly. KO lateral.  
1/9/16 TD 8-1/2" hole @ 11719. POOH & LDDP.

14. I hereby certify that the foregoing is true and correct.  
**Electronic Submission #333294 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 03/09/2016

**THIS SPACE FOR FEDERAL OR STATE OFFICIAL APPROVAL**

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 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 #333294 that would not fit on the form**

**32. Additional remarks, continued**

1/10/16-1/11/16 RIH w/ 5-1/2, 17#, L80, BT&C Casing & Set @ 11719. Mix & pump lead; 815 sks, Class TLW, 11 ppg, 2.77 yield,; Tail 1305 sks, poz/Class H, 14.5 ppg, 1.2 yield. RD & Rig released.

**NM OIL CONSERVATION  
ARTESIA DISTRICT**

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUN 27 2016

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

**WELL COMPLETION OR RECOMPLETION REPORT** **RECEIVED**

5. Lease Serial No.  
NMNM111530

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
GADWALL 18 FEDERAL COM 4H

9. API Well No.  
30-015-43487

10. Field and Pool, or Exploratory  
COTTONWOOD DRAW;BONESPRIN

11. Sec., T., R., M., or Block and Survey  
or Area Sec 18 T25S R27E Mer

12. County or Parish  
EDDY

13. State  
NM

17. Elevations (DF, KB, RT, GL)\*  
3201 GL

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit analysis)

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 CO

Contact: AMITHY CRAWFORD  
E-Mail: acrawford@cimarex.com

3. Address 600 N. MARIENFELD SUITE 600  
MIDLAND, TX 79701

3a. Phone No. (include area code)  
Ph: 432-620-1909

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

At surface Lot 1 130FNL 611FWL

At top prod interval reported below Lot 1 130FNL 611FWL

At total depth 330FSL 634FWL

14. Date Spudded  
01/01/2016

15. Date T.D. Reached  
01/09/2016

16. Date Completed  
 D & A  Ready to Prod.  
06/04/2016

18. Total Depth: MD 11719 TVD 7266

19. Plug Back T.D.: MD 11711 TVD 7266

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
NONE

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 J55	48.0	0	467		517		0	
12.250	9.625 J55	36.0	0	1890		690		0	
8.750	5.500 L80	17.0	0	11719		2120		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	6723	6723						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7370	11686	7370 TO 11686	0.460	450	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7370 TO 11686	FRAC WITH 3864607 GAL FLUID & 6388965# 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
06/05/2016	06/11/2016	24	→	329.0	520.0	1202.0	45.0		GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
27	720	280.0	→	329	520	1202		POW	

28a. Production - Interval B

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

Pending BLM approvals will subsequently be reviewed and scanned

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
					Mcas. Depth
SALT	1125	1916	WATER OIL	SALT DELAWARE BONE SPRING	1125
DELAWARE	1916	5907			1916
BONE SPRING	5907	7266			5907

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 #342883 Verified by the BLM Well Information System.**  
For CIMAREX ENERGY CO, sent to the Carlsbad

Name (please print) AMITHY CRAWFORD Title REGULATORY ANALYST

Signature \_\_\_\_\_ (Electronic Submission) Date 06/23/2016

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Drilling & Measurements, North America Land

3329 W Pinhook Road  
Lafayette, LA 70508  
Tel +1 337-233-3982

**Schlumberger**

January 22, 2016

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**JUN 27 2016**

**CIMAREX**  
Attn: Gary Abbott  
1700 Lincoln St  
Suite 3700  
Denver, CO 80203-4518

**RECEIVED**

RE: M/LWD Services  
CIMAREX ENERGY CO.  
Gadwall 18 Federal Com #4H  
Bonespring Field  
Eddy County, NM  
API Well No.: 30-015-43487  
Job No.: 16MLD0576

Dear Mr. Abbott:

Enclosed please find the following M/LWD presentations furnished by Schlumberger on the above captioned well.

**FINAL PRINT WELL DATA**

- 1 – (1") MD Gamma-Ray Log Report
- 1 – (1") TVD Gamma-Ray Log Report
- 1 – (2") MD Gamma-Ray Log Report
- 1 – (2") TVD Gamma-Ray Log Report
- 1 – (5") MD Gamma-Ray Log Report
- 1 – (5") TVD Gamma-Ray Log Report
- 1 – CD containing LAS & TIF Log and Survey Data
- 1 – Copy of Transmittal Documentation

Should you have any questions or comments concerning the enclosed log data please contact Alex Cantrall, Log Analyst II, by email [acantrall@slb.com](mailto:acantrall@slb.com) or call (800) 377-3982.

We trust that you are satisfied with the M/LWD work provided on this job.

Schlumberger appreciates the opportunity to work with you and we look forward to your continued business support.

Sincerely,

*Sue Prejean M/LWD Distribution and Regulatory Specialist*  
*Tracie Broussard M/LWD Data Distribution Clerk*

337.572.2208 (Sue Direct #)  
337.769-6036 (Tracie Direct #)  
[hprejean01@pathfinder.slb.com](mailto:hprejean01@pathfinder.slb.com)  
[tbroussard01@slb.com](mailto:tbroussard01@slb.com)

Enclosure