

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: 1-30-17
<sup>4</sup> API Number 30 - 015 - 42181	<sup>5</sup> Pool Name WC-015 G-04 S262625B; Bone Spring	
		<sup>6</sup> Pool Code 98018
<sup>7</sup> Property Code 40358	<sup>8</sup> Property Name Klein 33 Federal Com	
		<sup>9</sup> Well Number 8H

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

Ul or lot no. 2	Section 33	Township 26S	Range 27E	Lot Idn	Feet from the 290'	North/South Line South	Feet from the 2540'	East/West line East	County Eddy
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**<sup>11</sup> Bottom Hole Location**

UL or lot no. B	Section 28	Township 26S	Range 27E	Lot Idn	Feet from the 330'	North/South line North	Feet from the 1699'	East/West line East	County Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P		<sup>14</sup> Gas Connection Date 1/30/17		<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	
	NM OIL CONSERVATION ARTESIA DISTRICT MAR 17 2017 RECEIVED	

**IV. Well Completion Data**

<sup>21</sup> Spud Date 10/16/16	<sup>22</sup> Ready Date 1-30-2017	<sup>23</sup> TD 14227' / 1501	<sup>24</sup> PBTB 14199'	<sup>25</sup> Perforations 7477-14199'	<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'		396'	500	
12 1/4"	9 5/8"		1935'	795	
8 3/4"/8 1/2"	5 1/2"		14227'	2705 TOC @ 1670'	
	2 3/8"		6985'		

**V. Well Test Data**

<sup>31</sup> Date New Oil 01/30/2017	<sup>32</sup> Gas Delivery Date 1/30/2017	<sup>33</sup> Test Date 2/7/2017	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 820	<sup>36</sup> Csg. Pressure 980
<sup>37</sup> Choke Size 36'	<sup>38</sup> Oil 893	<sup>39</sup> Water 1520	<sup>40</sup> Gas 1730	<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:  
Hope Knauls

Printed name:  
Hope Knauls

Title:  
Regulatory

E-mail Address:  
hknauls@cimarex.com

Date:  
3/14/2017

Phone:  
918-295-1799

OIL CONSERVATION DIVISION

Approved by: *Raymond M. Droling*

Title: *Geologist*

Approval Date: *3-21-2017*

Provide Gas Capture Plan

Pending BLM approvals will subsequently be reviewed and scanned



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018**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.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM114350
2. Name of Operator CIMAREX ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
Contact: ARICKA EASTERLING E-Mail: aeasterling@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 202 S. CHEYENNE AVE, SUITE 1000 TULSA, OK 74103	3b. Phone No. (include area code) Ph: 918-560-7060	8. Well Name and No. KLEIN 33 FEDERAL COM 8H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T26S R27E SWSE 210FSL 2490FEL		9. API Well No. 30-015-42181
		10. Field and Pool or Exploratory Area BONE SPRING
		11. County or Parish, State EDDY COUNTY, NM

**12. CHECK THE 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"/> Hydraulic Fracturing	<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 must 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 must be filed once testing has been completed. Final Abandonment Notices must 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 operations:**

10/16/16 Spud well. TD 17-1/2" hole @ 396'  
10/17/16 RIH w/ 13-3/8" 48# J55 STC Csg & Set @ 396'. Mix & pump tail 500 sx. Class C 14.8 ppg, 1.33 yld. Circ 55 bbls cmt to surface. WIC 8+ hrs.  
10/18/16 Test Csg to 1500 psi for 30 min. OK  
10/19/16 TD 12-1/4" hole @ 1935'  
10/20/16 RIH w/ 9-5/8" 36# J55 LTC csg & Set @ 1935'. Mix & pump lead 470 sx class C 13.5 ppg, 1.81 yld. Tail 325 sx, Class C 14.8 ppg, 1.33 yld. Circ 251 sx to surf. WOC 8+ hrs.  
10/21/16 test csg to 1500 psi for 30 min. OK  
10/26/16 TD 8-3/4" vertical hole @ 6972'. TIH w/ curve assembly.  
10/27/16 TD 8-3/4" curve @ 7862'. TOH w/ curve. TIH w/ 8-1/2" lateral assembly

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

MAR 17 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #363527 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad</b>	
Name (Printed/Typed) ARICKA EASTERLING	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/11/2017

**THIS SPACE FOR FEDERAL OR STATE OFFICE 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 _____	United _____
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person to knowingly make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Instructions on page 2)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***Pending BLM approvals will  
subsequently be reviewed  
and scanned



**Additional data for EC transaction #363527 that would not fit on the form**

**32. Additional remarks, continued**

11/4/16 TD 8-1/2" hole @ 14227'

11/5/16 POOH & LDDP

11/6/16 RIH w/ 5-1/2" 17# L-80 BTC/LTC csg & set @ 14227'

11/7/16 Mix & pump lead 805 sx, 11 ppg, 2.8 yld. Tail 1900 sx Class H. 14.5 ppg, 1.2 yld. TOC @ 1252'

11/8/16 RD & Rig Release



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**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.*

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM114350
2. Name of Operator CIMAREX ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
Contact: TERRI STATHEM E-Mail: tstatthem@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 202 S. CHEYENNE AVE, STE 1000 TULSA, OK 74103	3b. Phone No. (include area code) Ph: 432-620-1936	8. Well Name and No. KLEIN 33 FEDERAL COM 8H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 33 T26S R27E SWSE 290FSL 2540FEL		9. API Well No. 30-015-42181
		10. Field and Pool or Exploratory Area BONE SPRING
		11. County or Parish, State EDDY COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<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 recompleate 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

12/22/16 Test csg to 7500# for 30 mins & chart. OK.  
12/26/16 Run RCBL - TOC @ 1670'.  
12/29/16 to  
01/13/17 Perf Bone Spring @ 7477-14199'. Frac Bone Spring w/ 191059 bbls total fluid & 12901705# sand.  
01/14/17 SI pending drillout.  
01/15/17 to  
01/17/17 DO plugs & CO to PBTD @ 14199'.  
01/19/17 Flowback well  
01/24/17 SI pending tbg installation.  
01/28/17 RIH w/ 2-3/8 tbg & GLV & set @ 6985'.  
01/30/17 Turn well to production.

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

MAR 17 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #369688 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad</b>	
Name (Printed/Typed) TERRI STATHEM	Title MANAGER REGULATORY COMPLIANCE
Signature (Electronic Submission)	Date 03/14/2017

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 _____	Date _____

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 who knowingly makes any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction to any department or agency of the United States.

(Instructions on page 2)

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



**NM OIL CONSERVATION**  
ARTESIA DISTRICT

**MAR 17 2017**

Form 3160-4  
(August 2007)

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**

**RECEIVED**

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. NMNM114350	
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. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator CIMAREX ENERGY COMPANY      Contact: HOPE KNAULS E-Mail: hknaults@cimarex.com		7. Unit or CA Agreement Name and No.	
3. Address 202 S. CHEYENNE AVE TULSA, OK 74103		8. Lease Name and Well No. KLEIN 33 FEDERAL COM 8H	
3a. Phone No. (include area code) Ph: 918-585-1100		9. API Well No. 30-015-42181	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface    210FSL 2490FEL At top prod interval reported below    210FSL 2490FEL At total depth    330FNL 1699FEL		10. Field and Pool, or Exploratory BONE SPRING <b>\$8018</b>	
14. Date Spudded 10/16/2016		15. Date T.D. Reached 11/04/2016	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/08/2016		17. Elevations (DF, KB, RT, GL)* 3197 GL	
18. Total Depth: MD 14227 TVD 7464		19. Plug Back T.D.: MD 14224 TVD	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each)	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) 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 J-55	48.0		396		500			55
12.250	9.625 J55	36.0		1935		795			251
8.500	5.500 L80			14227		2705		1670	

**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	6985							

**25. Producing Intervals**

**26. Perforation Record**

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONESPRING	7477	14199	7477 TO 14199	0.460	900	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7447 TO 14199	PLEASE SEE FRAC FOCUS

**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
01/30/2017	02/07/2017	24	→	893.0	1730.0	1520.0	40.0		GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
36	SI	820	→	893	1730	1520	1937	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 #369878 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPE

Pending BLM approvals will  
subsequently be reviewed  
and scanned

*BC*



## 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.) CAPTURED

## 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	2052	3043	WATER	SALADO	1346
CHERRY CANYON	3043	4051	WATER	CASTILE	1874
BRUSHY CANYON	4051	5667	WATER	BELL CANYON	2052
BONE SPRING	5667	7330	WATER AND OIL	CHERRY CANYON	3043
				BRUSHY CANYON	4051
				BONE SPRING	5667

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

Cimarex Energy Co. would like to request all completion paperwork and logs confidential.

## 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 #369878 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad

Name (please print) HOPE KNAULSTitle REGULATORY TECHNICIAN

Signature \_\_\_\_\_ (Electronic Submission)

Date 03/14/2017

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 \*\***