

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 - 11/2017
<sup>4</sup> API Number 30 - 015 - 42182	<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 10H

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

UL or lot no. 1	Section 33	Township 26S	Range 27E	Lot Idn	Feet from the 290'	North/South Line South	Feet from the 780'	East/West line East	County Eddy
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**<sup>11</sup> Bottom Hole Location**

UL or lot no. A	Section 28	Township 26S	Range 27E	Lot Idn	Feet from the 330'	North/South line North	Feet from the 589'	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 10-27-17	<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
33479	Holly Frontier Refining & Marketing LLC	
226737	DCP Midstream. 370 17th St., Ste 2500 Denver CO	
NM OIL CONSERVATION ARTESIA DISTRICT DEC 15 2017 RECEIVED		

**IV. Well Completion Data**

<sup>21</sup> Spud Date 9-1-17	<sup>22</sup> Ready Date 10-21-17	<sup>23</sup> TD 14089' / 7503	<sup>24</sup> PBDT 14065	<sup>25</sup> Perforations 7601-14045 14036	<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'	400'	500 sx - Circ	✓	
12 1/4"	9 5/8"	1989' 2002	800 sx - Circ	✓	
8 3/4"/8 1/2"	5 1/2"	14089'	1610 sx	✓	
	2-3/8"	6969'			

**V. Well Test Data**

<sup>31</sup> Date New Oil 11-17-2017	<sup>32</sup> Gas Delivery Date 10-27-2017	<sup>33</sup> Test Date 11-19-2017	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 950	<sup>36</sup> Csg. Pressure 0
<sup>37</sup> Choke Size 28/64	<sup>38</sup> Oil 500	<sup>39</sup> Water 1030	<sup>40</sup> Gas 1623	<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:

Printed name:  
Terri Stathem

Title:  
Regulatory

E-mail Address:

Tstathem@cimarex.com

Date:

12-11-17

Phone:

432-620-1936

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

12-21-2017

Pending BLM approvals will  
subsequently be reviewed  
and scanned



Cimarex Energy Co.

600 N. Marienfeld St. ♦ Suite 600 ♦ Midland, TX 79701 ♦ (432) 620-1938 ♦ Fax (432) 620-1940

*A subsidiary of Cimarex Energy Co. • A NYSE Listed Company • "XEC"*

December 6, 2017

State of New Mexico  
Oil Conservation Division – District 2  
811 South First Street  
Artesia, NM 88210

Re: Request for Oil Allowable Exception  
Klein 33 Federal Com #10H – 30015-42182  
Eddy County, NM

Dear Sir:

Cimarex Energy Co. respectfully requests an exception to NMOCD Rule 19.50.20.9 regarding oil allowable. Cimarex requests permission to produce the project area assigned to our Klein 33 Federal Com #10H well above top depth bracket allowable to allow greater load recovery during flowback after frac stimulation.

Thank you for your consideration of this request. Please feel free to contact me if you need additional information.

Sincerely,

A handwritten signature in blue ink, appearing to read "Terri Stathem", is written over a large, light blue circular stamp or watermark.

Terri Stathem  
Manager, Regulatory Compliance  
432-620-1936

# NM OIL CONSERVATION

Form 3160-4  
(August 2007)

ARTESIA DISTRICT

UNITED STATES

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

DEC 15 2017

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. Lease Serial No.  
NMNM114350

1a. Type of Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
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 _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator CIMAREX ENERGY COMPANY		8. Lease Name and Well No. KLEIN 33 FEDERAL COM 10H	
3. Address 202 S. CHEYENNE AVE, STE 1000 TULSA, OK 74103		9. API Well No. 30-015-42182	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 33 T26S R27E Mer SESE Lot 1 290FSL 780FEL At top prod interval reported below Sec 33 T26S R27E Mer SESE Lot 1 290FSL 780FEL At total depth Sec 28 T26S R27E Mer NENE 330FNL 588FEL		10. Field and Pool, or Exploratory WILDCAT BONE SPRING	
14. Date Spudded 09/01/2017		15. Date T.D. Reached 09/19/2017	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 10/21/2017		17. Elevations (DF, KB, RT, GL)* 3212 GL	
18. Total Depth: MD 14089 TVD 7503		19. Plug Back T.D.: MD 14065 TVD 7503	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) RCBL	
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 J55	48.0	0	400		500		0	0
12.250	9.625 J55	36.0	0	2002		800		0	0
8.750	5.500 L80	17.0	0	14089		2610		1100	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	6969	6969						

### 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7601	14036	7601 TO 14036	0.430	1014	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7601 TO 14036	281326 BBLS FLUID; 1591464# 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
11/18/2017	11/19/2017	24	→	500.0	1623.0	1030.0	43.6		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
28/64	950	0.0	→	500	1623	1030	2060	POW	

### 28a. Production - Interval B

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

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

ELECTRONIC SUBMISSION #397614 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

Pending BLM approvals will subsequently be reviewed and scanned

AC 12-21-17

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

## 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 #397614 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad

Name (please print) TERRI STATHEMTitle MANAGER REGULATORY COMPLIANCE

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

Date 12/11/2017

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.

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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.**5. Lease Serial No.  
NMNM114350

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
KLEIN 33 FEDERAL COM 10H9. API Well No.  
30-015-4218210. Field and Pool or Exploratory Area  
WILDCAT11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator  
CIMAREX ENERGY COMPANYContact: TERRI STATHEM  
E-Mail: tstatthem@cimarex.com3a. Address  
202 S CHEYENNE AVE., STE. 1000  
TULSA, OK 741033b. Phone No. (include area code)  
Ph: 432-620-19364. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T26S R27E 290FSL 780FEL**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 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 must 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 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 Ops:**

09-01-2017 Spud well TD 17-1/2" hole @ 400'. RIH w/ 13-3/8", 48#, J55, STC csg & set @ 400'.  
Mix & pump 500 sx Halcem C, 14.8 #, 1.348 yld. Circ 75 sx to surface. WOC 8 hrs.  
09-03-2017 Test csg to 1500 psi for 30 mins. Ok.  
09-04-2017 TD 12-1/4" hole @ 2002'. RIH w/ 9-5/8", 36#, J55 LTC csg & set @ 2002'. Mix & pump  
lead: 500 sx Halcem C, 13.5 #, 1.729 yld; tail w/ 300 sx Class C, 14.7#, 1.332 yld. Circ 149 sx  
to surface. WOC 11 hrs.  
09-05-2017 Test csg to 2400# for 30 mins. OK.  
09-08-2017 TD 8-3/4" vertical hole @ 6965'. TOOH.  
09-09-2017 TIH w/ curve assembly & drill curve.  
09-11-2017 Landed curve.  
09-19-2017 TD 8-3/4" hole @ 14089'.

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

**Electronic Submission #397021 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) TERRI STATHEM

Title MANAGER REGULATORY COMPLIANCE

Signature (Electronic Submission)

Date 12/06/2017

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

Approved By

Title

Pending BLM approvals will  
subsequently be reviewed  
and scannedConditions 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

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

Jnited

(Instructions on page 2)

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

**Additional data for EC transaction #397021 that would not fit on the form**

**32. Additional remarks, continued**

09-21-2017 RIH w/ 5-1/2", 17#, L80 BTC/LTC csg & set @ 14089'.  
09-22-2017 Mix & pump lead: 800 sx Tuned Light, 10.3 ppg, yld 3.625; tail w/ 1810 sx Class H,  
14.5 ppg, 1.24 yld. WOC.  
09-23-2017 Release rig

**Completion:**

10-07-2017 Press test 7500 psi for 30 mins. OK. Run CBL - TOC @ 1100'.  
10-10-2017 CO to PBTD @ 14065'.  
10-11-2017 Test csg to 6850 psi for 30 mins. Ok.  
10-12-2017 to  
10-17-2017 Perf Bone Spring @ 7601-14036'. .43, 1014 holes. Frac w/ 281326 bbls total fluid &  
15914648# sand.  
10-18-2017 to  
10-20-2017 Mill out plugs & CO to PBTD.  
10-21-2017 Flowing well.