

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.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
1	33	26S	27E		290'	South	780'	East	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
A	28	26S	27E		330'	North	589'	East	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	<sup>22</sup> Ready Date	<sup>23</sup> TD	<sup>24</sup> PBTB	<sup>25</sup> Perforations	<sup>26</sup> DHC, MC
9-1-17	10-21-17	14089' / 7503	14065	7601-14045 / 14036	

<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	<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
11-17-2017	10-27-2017	11-19-2017	24	950	0

<sup>37</sup> Choke Size	<sup>38</sup> Oil	<sup>39</sup> Water	<sup>40</sup> Gas	<sup>41</sup> Test Method
28/64	500	1030	1623	

<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:	<i>Raymond W. Podany</i>
Title:	<i>Geologist</i>
Approval Date:	<i>12-21-2017</i>
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 scribble.

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

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

DEC 15 2017

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
NMNM114350

1a. Type of Well  **REGULATED**  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: **TERRI STATHEM**  
E-Mail: **tstatthem@cimarex.com**

3. Address **202 S. CHEYENNE AVE, STE 1000** 3a. Phone No. (include area code)  
**TULSA, OK 74103** Ph: **432-620-1936**

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**

6. If Indian, Allottee or Tribe Name \_\_\_\_\_

7. Unit or CA Agreement Name and No. \_\_\_\_\_

8. Lease Name and Well No. **KLEIN 33 FEDERAL COM 10H**

9. API Well No. **30-015-42182**

10. Field and Pool, or Exploratory **WILDCAT BONE SPRING**

11. Sec., T., R., M., or Block and Survey or Area **Sec 33 T26S R27E Mer**

12. County or Parish **EDDY** 13. State **NM**

14. Date Spudded **09/01/2017** 15. Date T.D. Reached **09/19/2017** 16. Date Completed  D & A  Ready to Prod.  
**10/21/2017**

17. Elevations (DF, KB, RT, GL)\* **3212 GL**

18. Total Depth: MD **14089** 19. Plug Back T.D.: MD **14065**  
TVD **7503** TVD **7503** 20. Depth Bridge Plug Set: MD **MD**  
TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **RCBL**

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	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)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
7601 TO 14036	281326 BBLs FLUID; 15914648# 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	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	
			→						

Pending BLM approvals will subsequently be reviewed and scanned  
AC 12-21-17

(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 \*\*

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 STATHEM Title 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.

\*\* ORIGINAL \*\*

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.*

5. Lease Serial No.  
NMNM114350

6. If Indian, Allottee or Tribe Name

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
KLEIN 33 FEDERAL COM 10H

2. Name of Operator  
CIMAREX ENERGY COMPANY  
Contact: TERRI STATHEM  
E-Mail: tstatthem@cimarex.com

9. API Well No.  
30-015-42182

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

3b. Phone No. (include area code)  
Ph: 432-620-1936

10. Field and Pool or Exploratory Area  
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 33 T26S R27E 290FSL 780FEL

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 recomplate 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 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 scanned

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

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 jurisc

SC 12-21-17

Initialed

(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.