

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

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

Form C-104  
Revised August 1, 2011

JAN 22 2015

Submit one copy to appropriate District Office

RECEIVED

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

<sup>1</sup> Operator name and Address Cimarex Energy Co. 600 N. Marienfeld St., Ste. 600 Midland, TX 79701		<sup>2</sup> OGRID Number 215099
		<sup>3</sup> Reason for Filing Code/ Effective Date NW 9-23-14
<sup>4</sup> API Number 30 -015-41791	<sup>5</sup> Pool Name Forty Niner Ridge Bone Spring	<sup>6</sup> Pool Code 24720
<sup>7</sup> Property Code 39937	<sup>8</sup> Property Name Sandy Federal	<sup>9</sup> Well Number 21H

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

Ul or lot no. P	Section 23	Township 23S	Range 30E	Lot Idn	Feet from the 225	North/South Line South	Feet from the 250	East/West line East	County Eddy
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<sup>11</sup> Bottom Hole Location

UL or lot no. B	Section 24	Township 23S	Range 30E	Lot Idn	Feet from the 330	North/South line North	Feet from the 2334	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 9-15-14	<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	

IV. Well Completion Data

<sup>21</sup> Spud Date 04-24-14	<sup>22</sup> Ready Date 9-15-14	<sup>23</sup> TD 15711/9760	<sup>24</sup> PBTD 15708	<sup>25</sup> Perforations 10460-15675	<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	377	390		
12 1/4	9 5/8	3852	1485		
8 3/4 & 8 1/2	5 1/2	15711	2790- TOC 0'		
	2-3/8	9389			

V. Well Test Data

<sup>31</sup> Date New Oil 09-23-14	<sup>32</sup> Gas Delivery Date 10-1-14	<sup>33</sup> Test Date 10-15-14	<sup>34</sup> Test Length 24 hrs	<sup>35</sup> Tbg. Pressure 550	<sup>36</sup> Csg. Pressure 110
<sup>37</sup> Choke Size 24/64	<sup>38</sup> Oil 431	<sup>39</sup> Water 1156	<sup>40</sup> Gas 938	<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:  
01-16-14

Phone:  
432-620-1936

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will  
subsequently be reviewed  
and scanned

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.  
NMNM114356

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.

SANDY FEDERAL 21H

2. Name of Operator  
CIMAREX ENERGY CO.Contact: DEYSI FAVELA  
E-Mail: dfavela@cimarex.com

9. API Well No.

30-015-41791

3a. Address  
600 N. MARIENFELD  
MIDLAND, TX 797013b. Phone No. (include area code)  
Ph: 432-620-196410. Field and Pool, or Exploratory  
FORTY NINER RIDGE, BS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 23 T23S R30E NWNE 225FSL 250FEL

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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<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.)

4/4/14 Spud Well

4/25/14 TD 17 1/2" Surface Hole at 377'

Ran 13 3/8 48# J-55 ST&amp;C Casing to 367'

Mix &amp; Pump tail cmt: 390 sxs of Class C cmt, 14.8 ppg, 1.34 yld. Circ 58.6 sxs of cmt to surface.

WOC 24+ hrs.

4/28/14 Test Casing to 1500 psi for 30 min, ok.

4/30/14 TD 12 1/4" Hole at 3852'

5/01/14 Ran 9 5/8" 36# J55 LT&amp;C Casing to 3852'

Mix &amp; Pump Lead cmt: 1175 sxs of POZ C cmt, 12.8 ppg, 1.92 yld. Tail cmt: 310 sxs of Class C cmt,

14.8 ppg, 1.34 yld. Circ 314 sxs of cmt to surface. WOC 24+ hrs

5/02/14 Test Casing to 1500 psi for 30 min, ok.

5/30/14 TD WELL @ 15711'

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

**Electronic Submission #250285 verified by the BLM Well Information System  
For CIMAREX ENERGY CO., sent to the Carlsbad**

Name (Printed/Typed) DEYSI FAVELA

Title DRILLING TECH

Signature (Electronic Submission)

Date 06/20/2014


**THIS SPACE FOR FEDERAL OR STATE OFFICIAL 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

  
**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 knowing 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 #250285 that would not fit on the form**

**32. Additional remarks, continued**

6/01/14 Ran 5 1/2" 17# P-110 LT&C/BT&C Casing to 15711'

Mix & Pump lead cmt 1490 sxs of Poz H cmt, 11.9 ppg, 2.26 yld. Tail 1750 sxs of Pox H cmt, 14.5 ppg, 1.24 yld. Lost returns after Dropping Plug to displace with fresh water

6/02/14 Ran Temperature Survey, found TOC @ 4500'

6/03/14 Rig Released

# NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-5  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 22 2015

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**

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

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Serial No. NMNM114356
2. Name of Operator CIMAREX ENERGY COMPANY	6. If Indian, Allottee or Tribe Name
3a. Address 202 S. CHEYENNE AVE STE 1000 TULSA, OK 74103	7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 918-560-7038	8. Well Name and No. SANDY FEDERAL 21H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 23 T23S R30E SESE 225FSL 250FEL	9. API Well No. 30-015-41791
10. Field and Pool, or Exploratory FORTY NINER RIDGE; BS	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
	<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.)

AMENDED FROM 1-9-15 SUNDRY SUBMISSION \*original had incorrect perms\*:

8/20/14 TOC @ 4440?. Request approval from BLM for bradenhead squeeze ? Approved.  
 8/22/14 MIRU. Mix & pump 550 sx, 11.9, 50/50 PC. WOC. No CBL required. TOC @ surf.  
 8/24/14 Test csg to 8500# for 30 mins. Ok. PBDT @ 15708.  
 9/02/14 to  
 9/04/14 Perf Bone Spring @ 10460-15675, .54, 432 holes. Frac w/ 2034188 gals total fluid, 3065677# sand. SI pending offset frac.  
 9/10/14 Mill out plugs and CO to PBDT.  
 9/11/14 Flowback well.  
 9/15/14 RIH w/ 2-3/8 tbg, pkr and GLV & Set @ 9389. GLV @ 1824, 2994, 3743, 4493, 5177, 5894, 6578, 7295, 7980, 8696, 9347. Turn well over to production.

14. I hereby certify that the foregoing is true and correct.	
Electronic Submission #287600 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad	
Name (Printed/Typed) CRISTEN BURDELL	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/12/2015

**THIS SPACE FOR FEDERAL OR**

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 *(Signature)*

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

ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JAN 22 2015

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

**RECEIVED**

5. Lease Serial No.  
NMNM114356

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input 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      Contact: TERRI STATHEM E-Mail: tstathem@cimarex.com			8. Lease Name and Well No. SANDY FEDERAL 21H		
3. Address 202 S. CHEYENNE AVE, STE 1000 TULSA, OK 74103			9. API Well No. 30-015-41791		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 23 T23S R30E Mer At surface 225FSL 250FEL Sec 23 T23S R30E Mer At top prod interval reported below 225FSL 250FEL Sec 24 T23S R30E Mer At total depth 330FNL 2334FEL			10. Field and Pool, or Exploratory FORTY NINER RIDGE BS		
			11. Sec., T., R., M., or Block and Survey or Area Sec 23 T23S R30E Mer		
			12. County or Parish EDDY		13. State NM
14. Date Spudded 04/24/2014		15. Date T.D. Reached 05/30/2014	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/15/2014		17. Elevations (DF, KB, RT, GL)* 3294 GL
18. Total Depth: MD 15711 TVD 9760		19. Plug Back T.D.: MD 15708 TVD		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE				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	377		390		0	59
12.250	9.625 J55	36.0	0	3852		1485		0	314
8.500	5.500 P110	17.0	0	15711		2790		0	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	9389	9389						

### 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	10460	15675	10460 TO 15675	0.540	432	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10460 TO 15675	2034188 GALS FLUID; 3065677# 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
09/23/2014	10/15/2014	24	→	431.0	938.0	1156.0	46.5		GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	SI	550	→	431	938	1156		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 Status
	SI		→					

Pending BLM approvals will subsequently be reviewed and scanned *MD*

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

ELECTRONIC SUBMISSION #288300 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
DELAWARE BONE SPRING	3865 7750	7750 16479	SANDSTONE, WATER SANDSTONE, SHALE, LIMESTONE	RUSTLER SALT DELAWARE BONE SPRING	150 488 3865 7750

## 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 #288300 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 01/16/2015

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