

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

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. Marlenfeld St. Suite 600 Midland, TX 7901		<sup>2</sup> OGRID Number 215099
<sup>4</sup> API Number 30-015-45147		<sup>3</sup> Reason for Filing Code/ Effective Date NW / 03/17/2019
<sup>5</sup> Pool Name Cottonwood Draw; Bone Spring (O)		<sup>6</sup> Pool Code 97494
<sup>7</sup> Property Code 322224	<sup>8</sup> Property Name Cottonberry 20 Federal	<sup>9</sup> Well Number 1H

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
D	20	25S	27E		950	North	609	West	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
M	20	25S	27E	101		South	673	West	Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code P	<sup>14</sup> Gas Connection Date 03/17/2019	<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

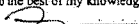
<sup>18</sup> Transporter OGRID	<sup>19</sup> Transporter Name and Address	<sup>20</sup> O/G/W
21778	Suhoco R&M PO Box 2039 Tulsa OK 74102	O
703107	Lucid 3100 McKinnon St., Suite 800 Dallas, TX 75201	G

IV. Well Completion Data

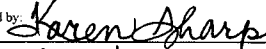
<sup>21</sup> Spud Date 12/04/2018	<sup>22</sup> Ready Date 03/17/2019	<sup>23</sup> TD 12,196'	<sup>24</sup> PBD 12,193'	<sup>25</sup> Perforations 7567'-12,146'	<sup>26</sup> DHC, MC
<sup>27</sup> Hole Size	<sup>28</sup> Casing & Tubing Size	<sup>29</sup> Depth Set	<sup>30</sup> Sacks Cement		
17-1/2"	13-3/8"	420'	500 sx - TOC 0		
12-1/4"	9-5/8"	1892'	750 sx - TOC 0		
8-3/4"	5-1/2"	12,196'	2150 sx - TOC 0		
Tubing	2-7/8"	6833'			

V. Well Test Data


<sup>31</sup> Date New Oil 03/17/2019	<sup>32</sup> Gas Delivery Date 03/17/2019	<sup>33</sup> Test Date 04/06/2019	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 643	<sup>36</sup> Csg. Pressure 1035
<sup>37</sup> Choke Size 62	<sup>38</sup> Oil 1561	<sup>39</sup> Water 1270	<sup>40</sup> Gas 2466	<sup>41</sup> Test Method P	

<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: 

OIL CONSERVATION DIVISION

Approved by: 

Printed name:  
Fatima Vasquez

Title: 

Title:  
Regulatory Analyst

Approval Date: 6-11-19

E-mail Address:  
fvasquez@cimarex.com

Date:  
06/03/2019

Phone:  
(432) 620-1933

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.*5. Lease Serial No.  
NMNM130854

6. If Indian, Allottee or Tribe Name

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

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

COTTONBERRY 20 FEDERAL 1H

2. Name of Operator

CIMAREX ENERGY COMPANY

Contact: FATIMA VASQUEZ

E-Mail: fvasquez@cimarex.com

9. API Well No.

30-015-45147

3a. Address

600 N MARIENFELD ST SUITE 600  
MIDLAND, TX 79701

3b. Phone No. (include area code)

Ph: 432.620.1933

10. Field and Pool or Exploratory Area

COTTONWOOD DRAW, BS (O)

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

Sec 20 T25S R27E NWNW 950FNL 609FWL  
32.120136 N Lat, 104.218878 W Lon

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
	<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 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.

Some Drilling & Completion information was inadvertently misfiled on 04/25/2019. Please accept this as the corrected Drilling & Completion Ops Sundry.

**Drilling Ops:**

12/04/2018 Spud well. TD 17-1/2" surface hole at 420'. RIH w/13-3/8" 48# J-55 ST&C csg & set @ 420'. Mixed & pumped 500 sx Class C cmt, 14.8 ppg, 1.346 yield. Circ 154 sx to surface. WOC 8 hrs.  
12/05/2018 Test casing to 1500# for 30 min. OK.  
12/06/2018 TD 12-1/4" hole @ 1902'.  
12/07/2018 RIH w/ 9-5/8" 36# J-55 LT&C csg set @ 1892'. Mixed & pump Lead: 500 sx Class C cmt, 13.7 ppg, 1.66 yld. Tail w/ 250 sx Class C cmt, 14.8 ppg, 1.344 yld. Circ 270 sx to surface. WOC cmt 12 hrs. Tested csg to 2342 for 30 mins. OK.

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

**Electronic Submission #468174 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) FATIMA VASQUEZ

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 06/07/2019

**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 \_\_\_\_\_

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

(Instructions on page 2)

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

Pending BLM approvals will  
subsequently be reviewed  
and scanned

## Additional data for EC transaction #468174 that would not fit on the form

### 32. Additional remarks, continued

12/12/2018 Landed curve @ 7818'.

12/15/2018 TD 8-3/4" hole @ 12,196'. RIH w/ 5-1/2" 17# L-80 BT&C and set @ 6773'-12,196'. RIH w/ 5-1/2" 17# L-80 LT&C csg set @ 6773'.

12/16/2018 Mixed & pump Lead: 1000 sx Class H cmt, 10.5 ppg, 3.43 yield. Tail w/1150 sx Class H cmt, 14.5 ppg, 1.22 yield. Circ 278 sx to surface. WOC.

12/17/2019 Released rig.

#### Completion Ops:

01/29/2019 Test csg to 6770# for 30 mins. Ending psi 7072#.

02/22/2019 to

02/28/2019 Perf Bone Spring @ 7567'-12,146', 748 holes, .41". Frac w/181,886 bbls total fluid & 8,796,949# sand.

03/04/2019 DO plugs & CO to PBTD @ 12,193'. SI well.

03/10/2019 RIH w/ 2-7/8" 6.5# L-80 8rd EUE prod tbg & pkr, set @ 6833'.

03/17/2019 Turn well to production.

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**

5. Lease Serial No.  
NMNM130854

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: FATIMA VASQUEZ E-Mail: fvasquez@cimarex.com		
3. Address 600 N MARIENFELD ST SUITE 600 MIDLAND, TX 79701			3a. Phone No. (include area code) Ph: 432.620.1933		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 20 T25S R27E Mer At surface NWNW 950FNL 609FWL 32.120136 N Lat, 104.218878 W Lon At top prod interval reported below Sec 20 T25S R27E Mer At total depth SWSW 101FSL 673FWL			8. Lease Name and Well No. COTTONBERRY 20 FEDERAL 1H		
14. Date Spudded 12/04/2018			15. Date T.D. Reached 12/15/2018		9. API Well No. 30-015-45147
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 03/17/2019			10. Field and Pool, or Exploratory COTTONWOOD DRAW; BS (O)		
18. Total Depth: MD 12196 TVD 7377			19. Plug Back T.D.: MD 12193 TVD 7377		11. Sec., T., R., M., or Block and Survey or Area Sec 20 T25S R27E Mer
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)			12. County or Parish EDDY		
			13. State NM		
			17. Elevations (DF, KB, RT, GL)* 3149 GL		

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	0	420		500		0	
12.250	9.625 J-55	36.0	0	1892		750		0	
8.750	5.500 L-80	17.0	0	12196		2150		0	

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	6833	6833						

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	5519		7567 TO 12146	0.410	748	PRODUCING
B)						
C)						
D)						

Depth Interval	Amount and Type of Material
7567 TO 12146	181,886 BBLS OF TOTAL FLUID & 8,796,949# SAND

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/17/2019	04/06/2019	24	→	1561.0	2466.0	1270.0	47.9		GAS LIFT
Choke Size 62	Tbg. Press. Flwg. 643 SI	Csg. Press. 1035.0	24 Hr. Rate →	Oil BBL 1561	Gas MCF 2466	Water BBL 1270	Gas:Oil Ratio 1580	Well Status POW	

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	

(See Instructions and spaces for additional data on reverse side)  
ELECTRONIC SUBMISSION #468171 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPI

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 Meas. Depth
BELL CANYON	1955	2942	WATER	RUSTLER	0
CHERRY CANYON	2942	3963	WATER	TOP SALT	1198
BRUSHY CANYON	3963	5519	OIL/WATER/GAS	BASE SALT	1761
BONE SPRING	5519		OIL/WATER/GAS	BELL CANYON	1955
				CHERRY CANYON	2942
				BRUSHY CANYON	3963
				BONE SPRING	5519

## 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 #468171 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (please print) FATIMA VASQUEZ Title REGULATORY ANALYST

Signature (Electronic Submission) Date 06/07/2019

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 \*\***