

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. Marienfeld St. Suite 600 Midland, TX 7901		<sup>2</sup> OGRID Number 215099
		<sup>3</sup> Reason for Filing Code/ Effective Date NW / 07/10/2019
<sup>4</sup> API Number 30-025-44359	<sup>5</sup> Pool Name WC-025 G-09 S253309P; Upr Wolfcamp	<sup>6</sup> Pool Code 98180
<sup>7</sup> Property Code 319775	<sup>8</sup> Property Name Vaca Draw 20-17 Federal	<sup>9</sup> Well Number 8H

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

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
M	20	25S	33E		330	South	710	West	Lea

**<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
D	17	25S	33E		50	North	1208	West	Lea
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code F	<sup>14</sup> Gas Connection Date 07/10/2019	<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	Sunoco R&M PO Box 2039 Tulsa OK 74102	O
320009	Enlink Midstream Operating, LP 1722 Routh St., Suite 1300 Dallas, TX 75201	G

**IV. Well Completion Data**

<sup>21</sup> Spud Date 12/24/2018	<sup>22</sup> Ready Date 07/10/2019	<sup>23</sup> TD 22,328'	<sup>24</sup> PBTD 22,242'	<sup>25</sup> Perforations 12,725'-22,217'	<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		
14-3/4"	10-3/4"	1023'	870 sx - TOC 0		
9-7/8" / 8-3/4"	7-5/8"	12,484'	2460 sx - TOC 0		
6-3/4"	5-1/2" / 5"	11,680' / 22,328'	1160 sx - TOC @ 3400'		

**V. Well Test Data**

<sup>31</sup> Date New Oil 07/10/2019	<sup>32</sup> Gas Delivery Date 07/10/2019	<sup>33</sup> Test Date 07/21/2019	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 0	<sup>36</sup> Csg. Pressure 3187
<sup>37</sup> Choke Size 28	<sup>38</sup> Oil 1022	<sup>39</sup> Water 5033	<sup>40</sup> Gas 1701		<sup>41</sup> Test Method F

<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:  
Fatima Vasquez

Title:  
Regulatory Analyst

E-mail Address:  
fvasquez@cimarex.com

Date:  
08/28/2019

Phone:  
(432) 620-1933

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

*[Signature]*  
L.M.  
9/9/2019

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 enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

**HOBBS OCD**  
**SEP 05 2019**  
**RECEIVED**

**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. NMNM26394
2. Name of Operator CIMAREX ENERGY COMPANY Contact: PAM STEVENS E-Mail: pstevens@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 N. MARIENFELD SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-571-7831	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T25S R33E SWSW 330FSL 710FWL 32.109739 N Lat, 103.600556 W Lon		8. Well Name and No. VACA DRAW 20-17 FEDERAL 008H
		9. API Well No. 30-025-44359
		10. Field and Pool or Exploratory Area WC-025 G-09 S253309P; UWC
		11. County or Parish, State LEA 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	Production Start-up
	<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.

Completion:  
04/08/2019 Test casing to 1500# for 30 mins. Good test. SWI.  
04/17/2019 to  
05/16/2019 Perf Wolfcamp @ 12,725' - 22,217', 988 holes, 0.40".  
Frac w/459,280 bbls total fluid & 22,008,655# sand.  
06/27/2019 DO plugs.  
06/30/2019 Finish DO plugs. Circulate well clean. SI.  
07/10/2019 TTP.

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #480941 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Hobbs</b>	
Name (Printed/Typed) PAM STEVENS	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 08/29/2019

**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 _____		

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.

(Instructions on page 2)

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

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 LOGS

**1a. Type of Well** ☒ Oil Well ☐ 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:** 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)\***  
At surface Sec 20 T25S R33E Mer  
SWSW 330FSL 710FWL 32.109739 N Lat, 103.600556 W Lon  
At top prod interval reported below  
Sec 17 T25S R33E Mer  
At total depth NWNW 50FNL 1208FWL

**5. Lease Serial No.** NMNM26394

**6. If Indian, Allottee or Tribe Name**

**7. Unit or CA Agreement Name and No.**

**8. Lease Name and Well No.** VACA DRAW 20-17 FEDERAL 8H

**9. API Well No.** 30-025-44359

**10. Field and Pool, or Exploratory** WC-025 G-09 S253309A; UP

**11. Sec., T., R., M., or Block and Survey or Area** Sec 20 T25S R33E Mer

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

**14. Date Spudded** 12/24/2018 **15. Date T.D. Reached** 03/08/2019 **16. Date Completed**  
☐ D & A ☒ Ready to Prod. 07/10/2019

**17. Elevations (DF, KB, RT, GL)\*** 3423 GL

**18. Total Depth:** MD 22328 TVD 12344 **19. Plug Back T.D.:** MD 22242 TVD 12344 **20. Depth Bridge Plug Set:** MD TVD

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

**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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
14.750	10.750 J-55	40.5	0	1023		870		0	
6.750	5.500 HCP-110	23.0	0	11680					
9.875			0	11749					
8.750	7.625 HCL-80	29.7	0	12484		2460		0	
6.750	5.000 HCP-110	18.0	11680	22328		1160		3400	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	12191		12725 TO 22217	0.400	988	PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
12725 TO 22217	459,280 BBLs TOTAL FLUID & 22,008,655# 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
07/10/2019	07/21/2019	24	→	1022.0	1701.0	5033.0	45.6		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		3187.0	→	1022	1701	5033	1664	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	
			→						

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

ELECTRONIC SUBMISSION #480974 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
RUSTLER	935	935	DOLOMITE/ANHYDRITE: WATER	RUSTLER	935
TOP OF SALT	1298	1298	SALT: BARREN	TOP OF SALT	1298
BELL CANYON	4937	4937	SANDSTONE: WATER	BELL CANYON	4937
CHERRY CANYON	5990	5990	SANDSTONE: WATER	CHERRY CANYON	5990
BRUSHY CANYON	7536	7536	SANDSTONE: WATER	BRUSHY CANYON	7536
BONE SPRING	9032	9032	LIMESTONE: WATER	BONE SPRING	9032
AVALON	9310	9310	SHALE: OIL, WATER, GAS	AVALON	9310
WOLFCAMP	12191	12191	SHALE: OIL, WATER, GAS	WOLFCAMP	12191

## 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 #480974 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Hobbs**

Name (please print) FATIMA VASQUEZTitle REGULATORY ANALYSTSignature (Electronic Submission)Date 08/29/2019

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 \*\***



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"*

August 28, 2019

State of New Mexico  
Oil Conservation Division – District 1  
1625 N. French Drive  
Hobbs, NM 88240

Re: Request for Exception to Rule 107J  
Tubingless Completion  
Vaca Draw 20-17 Federal #8H – 30-025-44359  
Lea County, NM

Dear Sir:

Cimarex Energy Co. respectfully requests an exception to NMOC Rule 107J, well tubing requirements. Cimarex request a tubingless completions for our Vaca Draw 20-17 Federal #8H well to allow for greater flowback after frac stimulation.

Cimarex plans to install production tubing as soon as flow decreases, which should occur within 6 months.

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

Sincerely,

A handwritten signature in black ink, appearing to be "Fatima Vasquez", with a long horizontal stroke extending to the right.

Fatima Vasquez  
Regulatory Analyst  
432-620-1933