

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 / 01/29/2019
<sup>4</sup> API Number 30-025-42222	<sup>5</sup> Pool Name Sand Dunes; Bone Spring, South	<sup>6</sup> Pool Code 53805
<sup>7</sup> Property Code 31345	<sup>8</sup> Property Name James 19 Federal	<sup>9</sup> Well Number 31H

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
P	18	23S	32E		50	South	330	East	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
P	19	23S	32E		330	South	388	East	Lea
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code F	<sup>14</sup> Gas Connection Date 01/29/2019	<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
36785	DCP Midstream, LP 370 17th St Suite 2500 Denver CO 80202	G


IV. Well Completion Data

<sup>21</sup> Spud Date 01/16/2018	<sup>22</sup> Ready Date 01/29/2019	<sup>23</sup> TD 14,249' <i>9395</i>	<sup>24</sup> PBDT 14,200'	<sup>25</sup> Perforations 9639'-14,182'	<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"	1231'	1145 sx - TOC 0		
12-1/4"	9-5/8"	4633'	1520 sx - TOC 0		
8-3/4"	5-1/2"	14,249'	2340 sx - TOC 0		
8-3/4"	3-1/2"	14,200'	210 sx - TOC 0		

V. Well Test Data

<sup>31</sup> Date New Oil 01/29/2019	<sup>32</sup> Gas Delivery Date 01/29/2019	<sup>33</sup> Test Date 02/28/2019	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 0	<sup>36</sup> Csg. Pressure 429
<sup>37</sup> Choke Size 2	<sup>38</sup> Oil 1478	<sup>39</sup> Water 1368	<sup>40</sup> Gas 6381		<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: 

Printed name:  
Fatima Vasquez

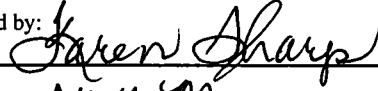
Title:  
Regulatory Analyst

E-mail Address:  
fvasquez@cimarex.com

Date:  
03/29/2019

Phone:  
(432) 620-1933

OIL CONSERVATION DIVISION

Approved by: 

Title: *Staff Mgr*

Approval Date: *4-10-19*

Documents 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 proposal.*5. Lease Serial No.  
NMNM0559539

6. If Indian, Allottee or Tribe Name

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

## 1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

## 2. Name of Operator

CIMAREX ENERGY COMPANY

Contact: FATIMA VASQUEZ

E-Mail: fvasquez@cimarex.com

## 8. Well Name and No.

JAMES 19 FEDERAL 31H

## 9. API Well No.

30-025-42222

## 3a. Address

600 N MARIENFELD ST STE 600  
MIDLAND, TX 79701

## 3b. Phone No. (include area code)

Ph: 432.620.1933

## 10. Field and Pool or Exploratory Area

SAND DUNES;BONE SPRING, S

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

Sec 18 T23S R32E SESE 50FSL 330FEL  
32.297333 N Lat, 103.706290 W Lon

## 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 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.

Please see attached PDF for the completion ops.

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #459671 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Hobbs</b>	
Name (Printed/Typed) FATIMA VASQUEZ	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/29/2019

## 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 wi.  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

... department or agency of the United

(Instructions on page 2)

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***Documents pending BLM approvals will  
subsequently be reviewed and scanned

James 19 Fed 31H

Cimarex completed this well as follows:

08/04/2018 Pressure test 9-5/8" x 5-1/2" annulus to 549 psi & bled off to 479 psi in 30 min.

08/08/2018 RIH w/ 4.60" GR. Pulled heavy to 9436', stopped winch. Weight dropped off, lost communication w/ tool string. POOH, found tool string pulled out of cable head.

08/09/2018 RIH w/ overshot to fish GR/IB & tool string. Ran CN/GR/CCL logs from 9400' to surface. Pumped total of 179 bbls total fluid, pressure rapidly increased from 4300 psi to 7240 psi. Pressure lost on all strings. 13-3/8" csg (was cmt'd top to bottom from 1231') parted at bottom of csg head. 9-5/8" csg (was cmt'd top to bottom from 4633') parted at a collar approx. 10' down below csg head. 5-1/2" (cmt circ to surface) parted at some point but don't know where.

08/10/2018 9-5/8" csg is setting on lip of csg collar landed on baseplate attached to 13-3/8" csg. Secure wellhead. No flow or gas from well.

08/11/2018 Removed frac stack, wellhead & 3 jts of 5-1/2" csg. 5-1/2" coupling failed on 3<sup>rd</sup> joint below wellhead. Attempted to set plug inside 5-1/2" csg – unsuccessful. Wireline hitting obstruction @ 250'-360'. 5-1/2" coupling failed prematurely @ ~7400 psi, 9-5/8" & 13-3/8" csg strings also failed ~ 7400 psi.

08/12/2018 Dug out cellar ~3' below failed 13-3/8" csg & welded on new wellhead, installed well control equipment.

08/15/2018 Evaluate 5-1/2" csg w/ camera, began pulling csg from wellbore.

08/16/2018 Pulled 3 jts of 5-1/2" csg w/ spear. Current top of 5-1/2" csg is 278'. Tagged 278' & 365' with 1-1/4" tbg. After 365', we have not seen any obstructions down to ~2500' w/ 1-1/4" tbg.

08/19/2018 Run logs. Surface test of bond log shows short in cable head.

08/20/2018 Continue to pull out damaged 5-1/2" csg. Successfully set plug @ 8525' (KOP @ 8933'). Current top of 5-1/2" csg @ 410'.

09/10/2018 RIH w/ pkr to 437', tested to 2000 psi for 30 mins - good test.

09/11/2018 Run burnover shoe to push down cracked coupling to 415'.

09/12/2018 RIH w/ 5-1/2" L-80 20#. Pressure test to 2000 for 30 mins - good test.

09/13/2018 Ran 1-1/4" inside 5-1/2" x 9-5/8" annulus to 390'. Cmt w/ 155 sx Class C, 14.8 ppg, 1.35 yld. Circ 35 bbls to surface.

09/14/2019 Contact BLM for path forward.

09/15/2018 DO CIBP @ 8505' & RIH to 14,220' (tagged solid on top of fish).

09/17/2018 Set CIBP @ 14,210'. Test csg to 2000 psi for 30 min - good test.

10/12/2018 Zota Stevens w/ BLM emailed approval to RIH w/ 3-1/2" L-80 12.7#Ultra FX csg and cmt it.

10/16/2018 RIH w/ 3-1/2" 12.7# L-80 Ultra FX csg & set @ 14,200'.

10/18/2018 Mix & pump tail: 210 sx NeoCem cmt, 13.2 ppg, 1.44 yld. Circ 1 sx to surface. SI well.

11/29/2018 Test csg 13,8000 psi for 30 min – good test. SWI.

01/06/2019 Frac Stg 1 Bone Spring @ 14,182'. Gun stuck in hole.

01/08/2019 Tag fish @ 13,902'. Retrieved fish, all BHA accounted for.

01/09/2019 to

01/22/2019 Frac Bone Spring @ 9639' – 14,182', 615 holes, .36". Frac w/ 175,151 bbls total fluid & 8,478,436# sand.

01/23/2019 DO plugs.

01/27/2019 Finish DO plugs. Tag PBTD @ 14,200' & circ well clean. SI.

01/29/2019 Turn 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

HOBBS OCD  
APR 08 2019  
RECEIVED

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. NMNM0559539		
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 _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator CIMAREX ENERGY COMPANY Contact: FATIMA VASQUEZ E-Mail: fvasquez@cimarex.com			7. Unit or CA Agreement Name and No.		
3. Address 600 N MARIENFELD ST STE 600 MIDLAND, TX 79701			8. Lease Name and Well No. JAMES 19 FEDERAL 31H		
3a. Phone No. (include area code) Ph: 432-620-1933			9. API Well No. 30-025-42222		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 18 T23S R32E Mer At surface SESE 50FSL 330FEL 32.297333 N Lat, 103.706290 W Lon At top prod interval reported below Sec 19 T23S R32E Mer At total depth SESE 330FSL 388FEL			10. Field and Pool, or Exploratory SAND DUNES; BONE SPRING, S		
14. Date Spudded 01/16/2018			15. Date T.D. Reached 02/01/2018		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 01/29/2019			17. Elevations (DF, KB, RT, GL)* 3648 GL		
18. Total Depth: MD 14249 TVD 9395		19. Plug Back T.D.: MD 14200 TVD 9395		20. Depth Bridge Plug Set: MD 14210 TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CN/GR/CCL			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 H-40	48.0	0	1231		1145		0	
12.250	9.625 J-55	40.0	0	4633		1500		0	
8.750	3.500 L-80	12.7	0	14200		210		0	
8.750	5.500 HCP-110	20.0	0	14249		2340		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)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8600		9639 TO 14182	0.360	615	PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
9639 TO 14182	175,151 BBLs TOTAL FLUID & 8,478,436# 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
01/29/2019	02/28/2019	24	→	1478.0	6381.0	1368.0	44.2		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
2	SI	429.0	→	1478	6381	1368	4317	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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

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

ELECTRONIC SUBMISSION #459845 VERIFIED BY THE BLM WELL INFORMATION SYST.

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

Documents 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	4805	5630	WATER		
CHERRY CANYON	5630	6960	WATER		
BONE SPRING	8600		WATER, OIL, GAS		

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 #459845 Verified by the BLM Well Information System.**  
**For CIMAREX ENERGY COMPANY, sent to the Hobbs**

Name (please print) FATIMA VASQUEZ Title REGULATORY ANALYST

Signature \_\_\_\_\_ (Electronic Submission) Date 04/01/2019

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 \*\***