

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

**NM OIL CONSERVATION**

ARTESIA DISTRICT  
Submit one copy to appropriate District Office

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

JUL 21 2017

AMENDED REPORT

**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION FOR TRANSPORT**

<sup>1</sup> Operator name and Address Cimarex Energy Co. of Colorado 202 S Cheyenne Ave Ste 1000 Tulsa OK 74103		<sup>2</sup> OGRID Number 162683
		<sup>3</sup> Reason for Filing Code/ Effective Date NW - 06/06/17
<sup>4</sup> API Number 30 - 015-44073	<sup>5</sup> Pool Name Purple Sage Wolfcamp Gas	<sup>6</sup> Pool Code 98220
<sup>7</sup> Property Code 317461	<sup>8</sup> Property Name Marquardt 12-13 Federal Com	<sup>9</sup> Well Number 11H

**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	12	25S	26E		565	North	1309	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	13	25S	26E		330	South	391	West	Eddy
<sup>12</sup> Lse Code F	<sup>13</sup> Producing Method Code Flowing	<sup>14</sup> Gas Connection Date 6-14-17	<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	
36785	DCP Midstream. 370 17th St., Ste 2500 Denver CO	

**IV. Well Completion Data**

<sup>21</sup> Spud Date 3/13/17	<sup>22</sup> Ready Date 6/6/2017	<sup>23</sup> TD 19027/9592	<sup>24</sup> PBSD 19003	<sup>25</sup> Perforations 9333-18987	<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'	457'	595		
12 1/4"	9 5/8"	1909'	850		
8 3/4"	7"	9720'	750		
6"	4-1/2"	7754-19027'	750		

**V. Well Test Data**

<sup>31</sup> Date New Oil 6-16-17	<sup>32</sup> Gas Delivery Date 6-14-17	<sup>33</sup> Test Date 7-5-17	<sup>34</sup> Test Length 24	<sup>35</sup> Tbg. Pressure 0	<sup>36</sup> Csg. Pressure 2475
<sup>37</sup> Choke Size 40/64	<sup>38</sup> Oil 599	<sup>39</sup> Water 2495	<sup>40</sup> Gas 9126	<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: *[Signature]*  
Printed name: Terri Stathem  
Title: Manager Regulatory Compliance  
E-mail Address: tsthathem@cimarex.com  
Date: 7-18-17 Phone: 432-620-1936

OIL CONSERVATION DIVISION  
Approved by: *[Signature]*  
Title: Geologist  
Approval Date: 7-24-2017

Pending BLM approvals will subsequently be reviewed and scanned

**Provide tubing detail or request Tubing Exception**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUL 21 2017

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG RECEIVED**

5. Lease Serial No.  
NMNM14124

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" 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: tstatthem@cimarex.com		8. Lease Name and Well No. MARQUARDT 12-13 FEDERAL COM 11H	
3. Address 202 S CHEYENNE AVE., STE. 1000 TULSA, OK 74103		3a. Phone No. (include area code) Ph: 432-620-1936	9. API Well No. 30-015-44073
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 12 T25S R26E Mer At surface NWNW 565FNL 1309FWL Sec 12 T25S R26E Mer At top prod interval reported below NWNW 565FNL 1309FWL Sec 13 T25S R26E Mer At total depth SWSW 330FSL 391FWL		10. Field and Pool, or Exploratory PURPLE SAGE WOLFCAMP GAS	
14. Date Spudded 03/13/2017		15. Date T.D. Reached 04/17/2017	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 06/06/2017
17. Elevations (DF, KB, RT, GL)* 3302 GL		12. County or Parish EDDY	
13. State NM		18. Total Depth: MD 19027 TVD 9592	
19. Plug Back T.D.: MD 19003 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	457		595		0	
12.250	9.625 J55	36.0	0	1909		850		0	
8.750	7.000 L80	32.0	0	9720		750		0	
6.000	4.500 HCP110	11.6	7754	19027		750		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

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	9333	18987	9333 TO 18987	0.400	1320	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9333 TO 18987	523645 BBLs TOTAL FLUID & 27786801# 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
06/16/2017	07/05/2017	24	→	599.0	9126.0	2495.0	42.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
40/64	SI	2475.0	→	599	9126	2495	15235	PGW	

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
			→					

Pending BLM approvals will subsequently be reviewed and scanned

Be 7-25-17

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

ELECTRONIC SUBMISSION #381563 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 SAND	1936	5496	WATER OIL GAS	DELAWARE	1936
BONE SPRING	5496	8450	WATER OIL GAS	BONE SPRING	5496
WOLFCAMP	8450		WATER OIL GAS	WOLFCAMP	8450

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 #381563 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 07/18/2017

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 \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* 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.  
NMNM14124

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.  
MARQUARDT 12-13 FEDERAL COM 11H

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

9. API Well No.  
30-015-44073

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  
WOLFCAMP

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 12 T25S R26E 565FNL 1309FWL

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 checked="" 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 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 recomplete 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  
03/13/17 Spud well @ 6:00 am. TD 17-1/2" surface hole @ 457'. RIH w/ 13-3/8", 48#, J55, STC csg & set @ 457'. Mix & pump 595 sx Class C, 14.8 ppg, 1.35 yld. Circ 270 sx to surface. WOC 8 hrs.  
03/14/17 Test csg to 1500# for 30 mins. Good test.  
03/15/17 TD 12-1/4" hole @ 1909'.  
03/16/17 RIH w/ 9-5/8", 36#, J55 LTC csg & set @ 1909'. Mix & pump lead: 550 sx Class C, 13.5 ppg, 1.82 yld; tail w/ 300 sx Class C, 14.8 ppg, 1.35 yld. Circ 100 sx to surface. WOC 8 hrs.  
03/17/17 Test csg to 1500# for 30 mins. Good test.  
03/22/17 TD 8-3/4" vertical hole @ 8750'. TOH & LD BHA.  
03/23/17 PU 8-3/4" curve BHA & drill curve.  
03/24/17 TD curve @ 9720'. LDDP.  
03/26/17 RIH w/ 7", 32#, L80 BTC csg & set @ 9720'. Mix & pump lead: 570 sx Class C 10.3 ppg,

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

JUL 21 2017

RECEIVED

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

Electronic Submission #381399 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 07/16/2017

**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 knowingly a...  
States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

BC 7-25-17

(Instructions on page 2)

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

**Additional data for EC transaction #381399 that would not fit on the form**

**32. Additional remarks, continued**

3.64 yld, tail w/ 180 sx Class C 14.5 ppg, 1.24 yld. 97 sx cmt to surface. WOC 9 hrs.

03/27/17 Test csg to 3000# for 30 mins. OK.

03/29/17 TIH w/ 6" lateral assembly & drill lateral.

04/17/17 TD 6" hole @ 19027'.

04/18/17 LDDP. RIH w/ 4-1/2", 11.6#, HCP110, BTC liner & set @ 7754-19027'.

04/19/17 Mix & pump: 750 sx Versacem, 14.5 ppg, 1.22 yld. TOC @ TOL.

04/22/17 Release rig.

**Completion**

05/07/17 Test csg to 500# for 30 mins ? ok. Test csg to 9050# for 30 mins. OK.

05/08/17 to

6/03/17 Perf Wolfcamp @ 9333-18987' w/1320 holes, .40. Frac w/ 523,645 bbls total fluid and 27,786,801# sand.

06/04/17 Mill out plugs and CO to PBTD @ 19003'.

06/06/17 Flowback well.

06/08/17 SI well

06/09/17 Turn well over to production.

**Provide tubing detail or  
request Tubing Exception**