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Form 3160-4  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB 22 2019

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
C.D. NMNM88128

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: FATIMA VASQUEZ E-Mail: fvasquez@cimarex.com			8. Lease Name and Well No. RIVERBEND 12-13 FEDERAL COM 29H		
3. Address 600 N MARIENFELD ST SUITE 600 MIDLAND, TX 79701			9. API Well No. 30-015-45021		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 1 T25S R28E Mer NESW 1379FSL 1396FWL 32.155835 N Lat, 104.044939 W Lon At top prod interval reported below Sec 13 T25S R28E Mer At total depth SESW 330FSL 2195FWL			10. Field and Pool, or Exploratory PURPLE SAGE; WOLFCAMP (GAS)		
14. Date Spudded 07/28/2018			15. Date T.D. Reached 10/11/2018 <i>RR 10-17-18</i>		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 12/29/2018			17. Elevations (DF, KB, RT, GL)* 2937 GL		
18. Total Depth: MD 21947 TVD 10851			19. Plug Back T.D.: MD 21923 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 J-55	48.0	0	461		1091		0	
12.250	9.625 J-55	36.0	0	2618		1125		0	
8.750	7.000 RYS-110	32.0	0	9338				0	
6.000	4.500 HCP-110	13.5	9209	21947		870		9209	
8.750	7.000 L-80	32.0	9338	10920		975		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) WOLFCAMP	9600		11984 TO 21878	0.400	1382	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of
11984 TO 21878	587,140 BBLs TOTAL FLUID & 24,020,397# SAND

Provide tubing detail or  
request Tubing Exception3 months expires 3-29-2019  
6 months expires 6-29-2019

## 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
12/29/2018	01/27/2019	24	→	391.0	4146.0	1508.0	47.9		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
30	SI	4268.0	→	391	4146	1508	10604	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	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 #454588 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OFPending BLM approvals will  
subsequently be reviewed  
and scanned

2-22-19

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.  
NMNM88128

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
RIVERBEND 12-13 FEDERAL COM 29H9. API Well No.  
30-015-4502110. Field and Pool or Exploratory Area  
PURPLE SAGE; WOLFCAMP11. County or Parish, State  
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
CIMAREX ENERGY COMPANY  
Contact: FATIMA VASQUEZ  
E-Mail: fvasquez@cimarex.com3a. Address  
600 MARIENFELD STE 600  
MIDLAND, TX 797013b. Phone No. (include area code)  
Ph: 432-620-1933

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

Sec 1 T25S R28E NESW 1379FSL 1396FWL  
32.155835 N Lat, 104.044939 W Lon**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 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.

07/28/2018 Spud well.

07/28/2018 TD 17-1/2" surface hole @ 461'.

07/29/2018 RIH w/ 13-3/8", J-55, 48#, ST&amp;C csg &amp; set @ 461'. Mix &amp; pump: 825 sx Class C, 14.8 ppg, 1.35 yld. No cmt returns. WOC 8 hrs.

07/30/2018 Tag TOC @ 196' &amp; notify BLM. RIH w/ 1" and mix &amp; pump: 266 sx, 14.8 ppg, 1.33 yld Class C. Circ 42 sx to surface. WOC 13 hrs.

07/31/2018 Test csg to 1500 psi for 30 mins. OK.

08/02/2018 TD 12-1/4" hole @ 2630'. RIH w/ 9-5/8", J-55, 36#, LTC csg &amp; set @ 2618'.

08/03/2018 Mix &amp; pump lead: 800 sx Class C, 13.7 ppg, 1.67 yld; tail w/ 325 sx Class C, 14.8 ppg, 1.348 yld. Circ 487 sx to surface. WOC 13 hrs. Test csg to 2400 psi.

08/04/2018 Test csg again to 2400 psi for 30 min, good test.

08/11/2018 TD vertical hole @ 10,255'.

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DISTRICT II-ARTESIA O.C.D.

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

Electronic Submission #454457 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 02/13/2019

**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

Pending BLM approvals will  
subsequently be reviewed  
and scanned  
2-22-19

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.

to any department or agency of the United

(Instructions on page 2)

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

**Additional data for EC transaction #454457 that would not fit on the form**

**32. Additional remarks, continued**

08/13/2018 TD 8-3/4" int hole @ 10,920'.

08/14/2018 RIH w/ 7", L-80, 32#, BT&C csg, set @ 9338'-10,920'. RIH w/ 7", RYS-110, 32#, BTC csg & set @ 9338'.

08/15/2018 Mix & pump lead: 725 sx Class C, 10.5 ppg, 3.449 yld; tail w/ 250 sx Class H, 15.6 ppg, 1.195 yld. Circ 278 sx cmt to surface. WOC 4 hrs.

08/16/2018 Test csg to 2500 psi for 30 mins. Good test.

9/19/2018 Landed 6" curve @ 11,820'.

10/11/2018 TD 6" prod hole @ 21,947'.

10/13/2018 RIH w/ 4-1/2", HCP-110, 13.5#, BT&C liner & set @ 9209'-21,947'.

10/14/2018 Mix & pump: 870 sx Class C, 14.5 ppg, 1.223 yld.

10/17/2018 Rig release.

UNITED STATES  
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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.***SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM88128
2. Name of Operator CIMAREX ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
Contact: FATIMA VASQUEZ E-Mail: fvasquez@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 600 MARIENFELD STE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1933	8. Well Name and No. RIVERBEND 12-13 FEDERAL COM 29H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 1 T25S R28E NESW 1379FSL 1396FWL 32.155835 N Lat, 104.044939 W Lon		9. API Well No. 30-015-45021
		10. Field and Pool or Exploratory Area PURPLE SAGE; WOLFCAMP
		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	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 recomple 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.

Cimarex completed this well as follows:

11/07/2018 Test csg to 11,400# for 30 min. Good test. SWI.  
 11/25/2018 to  
 12/14/2018 Perf Wolfcamp @ 11,984' - 21,878', 1382 holes, .40". Frac w/ 587,140 bbls total fluid & 24,020,397# sand.  
 12/15/2018 DO plugs.  
 12/17/2018 Continue DO plugs. Circulate well clean to PBTD @ 21,923'. SI.  
 12/29/2018 POP.

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DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #454352 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 02/12/2019

**THIS SPACE FOR FEDERAL OR STATE OFFICE**

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  
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18-2-22-19

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