

Form 3160-4  
(August 2007)

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.  
NMNM88128

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 STREET STE 600** 3a. Phone No. (include area code)  
**MIDLAND, TX 79701** Ph: **432.620.1933**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NWSW 1439FSL 1257FWL 32.156008 N Lat, 104.045387 W Lon**  
 Sec 1 T25S R28E Mer NMP  
 At top prod interval reported below **NWNW 340FNL 307FWL 32.151181 N Lat, 104.048439 W Lon**  
 Sec 12 T25S R28E Mer NMP  
 At total depth **SWSW 330FSL 340FWL 32.123769 N Lat, 104.048292 W Lon**  
 Sec 13 T25S R28E Mer NMP

6. If Indian, Allottee or Tribe Name \_\_\_\_\_  
 7. Unit or CA Agreement Name and No. \_\_\_\_\_

8. Lease Name and Well No.  
**RIVERBEND 12-13 FEDERAL COM 32H**

9. API Well No.  
**30-015-45973-00-S1**

10. Field and Pool, or Exploratory  
**PURPLE SAGE-WOLFCAMP (GAS)**

11. Sec., T., R., M., or Block and Survey  
 or Area **Sec 1 T25S R28E Mer NMP**

12. County or Parish  
**EDDY**

13. State  
**NM**

14. Date Spudded  
**07/16/2019**

15. Date T.D. Reached  
**09/25/2019**

16. Date Completed  
 D & A  Ready to Prod.  
**03/13/2020**

17. Elevations (DF, KB, RT, GL)\*  
**2938 GL**

18. Total Depth: **MD 21507** 19. Plug Back T.D.: **MD 21482** 20. Depth Bridge Plug Set: **MD**  
**TVD 9960** **TVD 9960** **TVD**

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

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
17.500	13.375 J-55	48.0	0	457		570		0	
12.250	9.625 J-55	36.0	0	2632		1095		0	
8.750	7.000 P-110	32.0	0	8592				0	
6.000	4.500 P-110	13.5	8221	21507		930		9560	
8.750	7.000 L-80	26.0	8592	10135		960		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)
2.875	8369	8369						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) <b>WOLFCAMP</b>	<b>9600</b>		<b>11538 TO 21457</b>	<b>0.400</b>	<b>1316</b>	<b>PRODUCING</b>
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
<b>11538 TO 21457</b>	<b>479,537 BBLs TOTAL FLUID &amp; 23,509,262# SAND</b>

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
<b>03/13/2020</b>	<b>03/31/2020</b>	<b>24</b>	<b>→</b>	<b>1101.0</b>	<b>3656.0</b>	<b>4041.0</b>	<b>47.9</b>		<b>GAS LIFT</b>
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
<b>40</b>	<b>SI</b>	<b>1579</b>	<b>→</b>	<b>1101</b>	<b>3656</b>	<b>4041</b>	<b>3321</b>	<b>PGW</b>	

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
			<b>→</b>						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	<b>SI</b>		<b>→</b>						

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

ELECTRONIC SUBMISSION #510646 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

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	431	1898	BARREN		
SALADO	1898	2461	BARREN		
CASTILE	2461	2645	BARREN		
DELAWARE SAND	2645	6362	WATER, OIL		
BONE SPRING	6362	9600	WATER, OIL, GAS		
WOLFCAMP	9600		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 #510646 Verified by the BLM Well Information System.  
For CIMAREX ENERGY COMPANY, sent to the Carlsbad  
Committed to AFMSS for processing by DINAH NEGRETE on 05/09/2020 (20DCN0057SE)**

Name (please print) FATIMA VASQUEZ Title REGULATORY ANALYST

Signature (Electronic Submission) Date 04/13/2020

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.

**Revisions to Operator-Submitted EC Data for Well Completion #510646**

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
Lease:	NMNM16104	NMNM88128
Agreement:		
Operator:	CIMAREX ENERGY COMPANY 600 N MARIENFELD ST SUITE 600 MIDLAND, TX 79701 Ph: 432-620-1933	CIMAREX ENERGY COMPANY 600 N MARIENFELD STREET STE 600 MIDLAND, TX 79701 Ph: 432.620.1936
Admin Contact:	FATIMA VASQUEZ REGULATORY ANALYST E-Mail: fvasquez@cimarex.com  Ph: 432.620.1933	FATIMA VASQUEZ REGULATORY ANALYST E-Mail: fvasquez@cimarex.com  Ph: 432.620.1933
Tech Contact:	FATIMA VASQUEZ REGULATORY ANALYST E-Mail: fvasquez@cimarex.com  Ph: 432.620.1933	FATIMA VASQUEZ REGULATORY ANALYST E-Mail: fvasquez@cimarex.com  Ph: 432.620.1933
Well Name: Number:	RIVERBEND 12-13 FEDERAL COM 32H	RIVERBEND 12-13 FEDERAL COM 32H
Location:		
State:	NM	NM
County:	EDDY	EDDY
S/T/R:	Sec 1 T25S R28E Mer NMP	Sec 1 T25S R28E Mer NMP
Surf Loc:	NWSW 1439FSL 1257FWL 32.156008 N Lat, 104.045387 W Lon	NWSW 1439FSL 1257FWL 32.156008 N Lat, 104.045387 W Lon
Field/Pool:	PURPLE SAGE; WOLFCAMP	PURPLE SAGE-WOLFCAMP (GAS)
Logs Run:	RCBL	RCBL
Producing Intervals - Formations:	WOLFCAMP	WOLFCAMP
Porous Zones:	RUSTLER SALADO CASTILLE DELAWARE SANDS BONES SPRING WOLFCAMP	RUSTLER SALADO CASTILE DELAWARE SAND BONE SPRING WOLFCAMP
Markers:		