

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

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWANCE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld Suite 600 Midland TX 79701		ARTESIA DISTRICT JUL 24 2017		² OGRID Number 162683
⁴ API Number 30 - 015-33394		⁵ Pool Name White City, Penn (Gas)		⁶ Pool Code 87280
⁷ Property Code 303008		⁸ Property Name White City 31 Federal		⁹ Well Number 2

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
K	31	24S	26E		2150'	South	1700'	West	Eddy

¹¹ 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
K	31	24S	26E		2591'	South	1490'	West	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 2/16/2017	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
151618	Enterprise Field Services, LLC PO BOX 4503 Houston TX 77210	G
21778	Sunoco Inc R&M PO BOX 2039 Tulsa OK	O

IV. Well Completion Data

²¹ Spud Date 12/23/2004	²² Ready Date 2/16/2017	²³ TD 12150'	²⁴ PBD 11315'	²⁵ Perforations 10374'-10450'	²⁶ DHC, MC S1 (GWN)
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8" J55 54.5#	208'	348 sks		
12 1/4"	9 5/8" NS110 40#	1685'	800 sks		
8 3/4"	5 1/2" P110 17#	12150'	2645 sks, TOC 490'		
	2 7/8"	10331'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date 2/16/2017	³³ Test Date 3/1/2017	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 1400	³⁶ Csg. Pressure 1100
³⁷ Choke Size 0	³⁸ Oil 0	³⁹ Water 0	⁴⁰ Gas 22		⁴¹ Test Method

⁴² 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: <i>Amithy Crawford</i>		OIL CONSERVATION DIVISION	
Printed name: Amithy Crawford		Approved by: <i>[Signature]</i>	
Title: Regulatory Analyst		Title: STAFF Mgr	
E-mail Address: acrawford@cimarex.com		Approval Date: 7-25-2017	
Date: 7/20/2017	Phone: 432-620-1909		

Pending BLM approvals will
subsequently be reviewed
and scanned

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.
NMNM0441951A

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☐ New Well ☐ Work Over ☐ Deepen ☒ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
CIMAREX ENERGY CO

Contact: AMITHY E CRAWFORD
E-Mail: acrawford@cimarex.com

8. Lease Name and Well No.
WHITE CITY 31 FEDERAL 2

3. Address 202 S. CHEYENNE AVE STE 1000
TULSA, OK 74103

3a. Phone No. (include area code)
405-220-4620

9. API Well No. 30-015-33394

4. Location of Well (Report location clearly and in accordance with Federal requirements)
ARIZONA DISTRICT

At surface 2150FSL 1700FWL

JUL 24 2017

At top prod interval reported below 2150FSL 1700FWL

At total depth 2591FSL 1490FWL

RECEIVED

10. Field and Pool, or Exploratory
WHITE CITY; PENN

11. Sec., T., R., M., or Block and Survey
or Area Sec 31 T24S R26E Mer

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
12/23/2004

15. Date T.D. Reached
01/25/2005

16. Date Completed
☐ D & A ☒ Ready to Prod.
02/16/2017

17. Elevations (DF, KB, RT, GL)*
3493 GL

18. Total Depth: MD 12150
TVD 12079

19. Plug Back T.D.: MD 11315
TVD

20. Depth Bridge Plug Set: MD 11350
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
PRODUCTION LOG

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 Cement Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	205		348		0	
12.250	9.625 NS110	40.0	0	1685		800		0	
8.750	5.500 P100	17.0	0	12150		2645		490	

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	10331	10331						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) STRAWN	10374	10450	10374 TO 10450	0.400	150	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10374 TO 10450	20000 GAL 20% NEFE ACID

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
02/16/2017	03/01/2017	24	→	0.0	22.0	0.0			GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	1400	1100.0	→	0	22	0		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API
			→				
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio
			→				

Pending BLM approvals will
subsequently be reviewed
and scanned

BC 7-26-17

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

ELECTRONIC SUBMISSION #382282 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

32. Additional remarks (include plugging procedure):

Set CIBP at 11350' with 35' cement on top. Abandon Morrow formation.

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 #382282 Verified by the BLM Well Information System.
For CIMAREX ENERGY CO, sent to the Carlsbad**

Name (please print) AMITHY E CRAWFORD

Title REGULATORY ANALYST

Signature _____ (Electronic Submission)

Date 07/24/2017

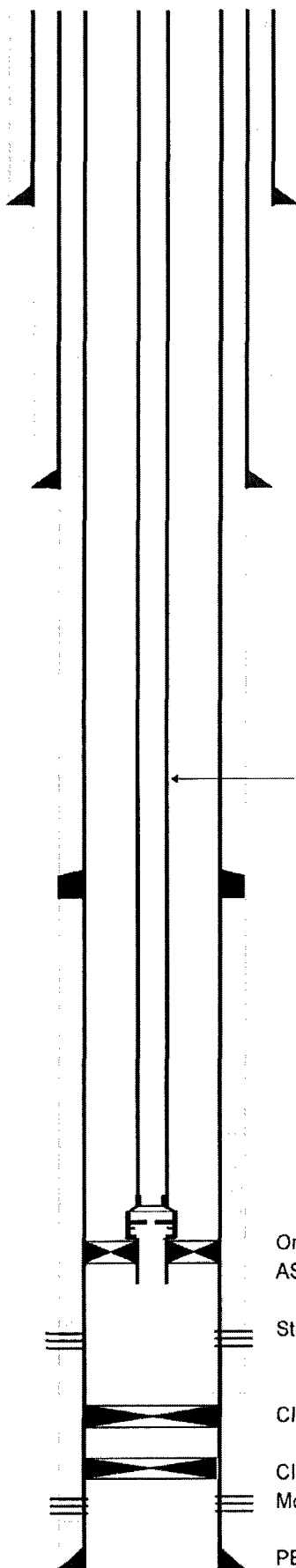
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****



Post Strawn RC WBD
KB - 23' above GL

Cimarex Energy Co. of Colorado
White City 31 Federal #2
SHL - 2150' FSL & 1700' FWL
corr BHL - 1709' FSL & 1490' FWL
Sec. 31, T-24-S, R-26-E, Eddy Co., NM
M. Karner 11/21/2016



13-3/8", 54.5# J-55 csg @ 200'
cmtd w/ 250 sx, cmt circ

TOC @ 490' by TS

9-5/8", 40# NS-110HC csg @ 1685'
cmtd w/ 600 sx, cmt circ

2-7/8" 6.5# L-80 Tbg

DV Tool @ 7133'
cmtd w/ 1410 sx

On-off Tool w/ 2.313" Profile nipple @ 10,324'
AS-1X pkr @ +/- 10,331'

Strawn perfs 10,374' - 10,450'

CIBP set at +/- 11350' with 35' cement on top

CIBP set at +/- 11,397'
Morrow perfs (11447' - 11936')

PBTD @ 11934 on 8/22/06.
5-1/2" 17# P-110 & N-80 @ 12150' cmtd w/ 1160 sx, cmt circ
TD @ 12150'

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018SUNDRY 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.
JUL 24 2017
RECEIVED

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	8. Well Name and No. WHITE CITY 31 FEDERAL 2
2. Name of Operator CIMAREX ENERGY CO OF COLO Contact: AMITHY E CRAWFORD E-Mail: acrawford@cimarex.com	9. API Well No. 30-015-33394
3a. Address 202 S. CHEYENNE AVE STE 1000 TULSA, OK 74103	10. Field and Pool or Exploratory Area WHITE CITY PENN
3b. Phone No. (include area code) Ph: 432-620-1909	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T24S R26E 2150FSL 1700FWL	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 type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" 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 recomple 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.

White City 31 Federal #2 - Strawn Recompletion
Plugback-Recompletion Ops

02/07-11/2017- RIH with 5 1/2" CIBP set at 11397'. Pressure test 5 1/2" casing to 5000 psi. Pressure casing up to 2900 psi, dropped to 0 psi immediately. Did not tag any cement. Tagged CIBP @ 11397'. Set RBP at 11350' to Test casing to 4000psi for 30 min. Lost 50 psi over 30 minute period. Release RBP. Set CIBP at 11350' with 35' cement. Test Casing to 5000 psi for 30 min. Had a 50 psi loss over 30 min period. Good Test. Abandoned Morrow Formation.

2/11/2017- Perforate Strawn formation from 10450'-10374'. 150 Total shots. .40.

2/14/2017- RIH 2 7/8" tubing, packer and GLVs set at 10331'.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #382268 verified by the BLM Well Information System For CIMAREX ENERGY CO OF COLO, sent to the Carlsbad	
Name (Printed/Typed) AMITHY E CRAWFORD	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 07/24/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title Pending BLM approvals will subsequently be reviewed and scanned	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 **

Additional data for EC transaction #382268 that would not fit on the form

32. Additional remarks, continued

2/15/2017- Acidize with 20000 gal 20% NEFE acid

2/16/2017- Flowback and Turn well over to Production.