

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

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.
NMLC067132

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
NMOIL CONSERVATION
ARTESIA DISTRICT

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		MAY 15 2017	8. Well Name and No. EMPIRE A FEDERAL COM 3
2. Name of Operator CIMAREX ENERGY CO OF COLO		Contact: AMITHY E CRAWFORD E-Mail: acrawford@cimarex.com	9. API Well No. 30-015-38659
3a. Address 202 S. CHEYENNE AVE STE 1000 TULSA, OK 74103	3b. Phone No. (include area code) Ph: 432-620-1909		10. Field and Pool or Exploratory Area BONE SPRING
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 27 T18S R29E 330FSL 810FWL			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	
	<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 recomplate 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 recomplate 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 H2s Gas analysis

Accepted for record - NMOCD
BC 5-15-17

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

Electronic Submission #375426 verified by the BLM Well Information System
For CIMAREX ENERGY CO OF COLO, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 05/10/2017 ()

Name (Printed/Typed) AMITHY E CRAWFORD	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/09/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *[Signature]* Title *P.A.T.* Date *5/10/17*

Office *Carlsbad Field 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 ****



LABORATORY SERVICES

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For:	Cimarex Energy	Sample:	Sta. # NCW9775020
	Attention: Steve Masters	Identification:	Empire A-3 Ck
	600 N Marienfeld, Suite 600	Company:	Cimarex Energy
	Midland, TX 79701	Lease:	
		Plant:	

Sample Data:	Date Sampled	2/20/2017	
	Analysis Date	2/21/2017	
	Pressure-PSIA	36	Sampled by: J. Jiron
	Sample Temp F	79	Analysis by: Vicki McDaniel
	Atmos Temp F	63	

H2S = 0.5 PPM Press. Base: 14.73

Component Analysis

		Mol Percent	GPM
Hydrogen Sulfide	H2S		
Nitrogen	N2	2.101	
Carbon Dioxide	CO2	0.282	
Methane	C1	74.592	
Ethane	C2	11.875	3.168
Propane	C3	5.964	1.639
I-Butane	IC4	0.866	0.283
N-Butane	NC4	2.019	0.635
I-Pentane	IC5	0.612	0.223
N-Pentane	NC5	0.516	0.187
Hexanes Plus	C6+	<u>1.173</u>	<u>0.508</u>
		100.000	6.642

REAL BTU/CU.FT.		Specific Gravity	
At 14.65 DRY	1314.3	Calculated	0.7756
At 14.65 WET	1291.3		
At 14.696 DRY	1318.4		
At 14.696 WET	1295.9	Molecular Weight	22.4634
At 14.73 DRY	1321.4		
At 14.73 Wet	1298.6		