

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.*Special No.
NMNM 19848

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit or CA/Agreement, Name and/or No. 8910142720
1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. LAGUNA GRANDE UNIT FEDERAL 3	
2. Name of Operator CIMAREX ENERGY COMPANY OF CO	Contact: AMITHY E CRAWFORD E-Mail: acrawford@cimarex.com	9. API Well No. 30-015-23414-00-S1
3a. Address 600 N MARIENFELD STE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1909	10. Field and Pool or Exploratory Area LAGUNA SALADO-ATOKA
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 29 T23S R29E NWSE 2310FSL 1980FEL		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
	<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 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.

Please see attached gas/H2s analysis.

GC 4/30/19
Accepted for record - NMOC

RECEIVED

APR 25 2019

DISTRICT II-ARTESIA O.C.D.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #461937 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad Committed to AFMSS for processing by PRISCILLA PEREZ on 04/18/2019 (19PP1737SE)	
Name (Printed/Typed) AMITHY E CRAWFORD	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 04/17/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title Accepted for Record	Date APR 19 2019
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.	Jonathon Shepard 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)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **



LABORATORY SERVICES

Natural Gas Analysis

www.permianls.com

575.397.3713 2609 W Marland Hobbs NM 88240

For: Cimarex Energy
Attention: Chris Prater
600 N. Marienfeld, Suite 600
Midland, Texas 79701

Sample: Sta# LG1-0007
Identification: Laguna Grande # 3 Alloc
Company: Cimarex Energy
Lease:
Plant:

Sample Data: Sample Date: 4/1/2019
Analysis Date: 4/4/2019
Sample Temp: 57.7 F
Sample Press.: 108.7 PSIA

Sampled by: J Thorn
Analysis by: T Galvan
Atmos Temp: 43 F
Sample Time: 8:20 PM

H2S = 0 PPM

Press. Base: 14.73

Component Analysis

		Mol Percent	GPM Real	GPM Ideal
Hydrogen Sulfide	H2S	0.000		
Nitrogen	N2	1.973		
Methane	C1	68.490		
Carbon Dioxide	CO2	2.118		
Ethane	C2	15.814	4.228	4.218
Propane	C3	7.998	2.203	2.198
I-Butane	IC4	0.862	0.282	0.281
N-Butane	NC4	2.010	0.634	0.632
I-Pentane	IC5	0.222	0.080	0.081
N-Pentane	NC5	0.254	0.110	0.092
Hexanes Plus	C6+	<u>0.259</u>	<u>0.112</u>	<u>0.112</u>
		100.000	7.649	7.614

REAL BTU/CU.FT.

At 14.65	1299.3 Dry
	1278.0 Wet
At 14.696	1303.4 Dry
	1282.0 Wet
At 14.73	1306.4 Dry
	1285.0 Wet

Specific Gravity:

Calculated	(Real)	0.796
	(Ideal)	0.793

Remarks: