

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
OCD HobbsFORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010**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 reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM36916
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: CRISTEN BURDELL E-Mail: cburdell@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 918-560-7038 <b>HOBBS OCD</b>	7. If Unit or CA/Agreement, Name and/or No. NMNM72609B
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T19S R33E NWNW 660FNL 410FWL		8. Well Name and No. NORTH MADURO FEDERAL UNIT 4
		9. API Well No. 30-025-39998-00-S1
		10. Field and Pool, or Exploratory TONTON
		11. County or Parish, and State LEA COUNTY, NM

**12. CHECK 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"/> Fracture Treat	<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 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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

H2S gas analysis for facility as requested

14. I hereby certify that the foregoing is true and correct. <b>Electronic Submission #273828 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by LINDA JIMENEZ on 01/30/2015 (15LJ0619SE)</b>	
Name (Printed/Typed) CRISTEN BURDELL	Title REGULATORY
Signature (Electronic Submission)	Date 10/27/2014
<b>Accepted for Record THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>	
Approved By <i>James G. Perez</i>	Title <i>SP6T</i> Date <i>12-13-15</i>
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 <i>CEO</i>
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.	

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*****Accepted for Record Only***MJB/OCD 12/21/2015**DEC 23 2015**[Signature]*



# Laboratory Services, Inc.

2609 West Marland  
Hobbs, New Mexico 88240

Telephone: (575) 397-3713

FOR: Cimarex Energy  
Attention: Terry Alnsworth  
600 N. Marlenfeld, Suite 600  
Midland, Texas 79701

SAMPLE: Sta. #08024676  
IDENTIFICATION North Maduro #4  
COMPANY: Cimarex Energy  
LEASE: *Maduro North Federal 411*  
PLANT:

SAMPLE DATA: DATE SAMPLED: 6/10/11 1:00 pm  
ANALYSIS DATE: 6/11/11  
PRESSURE - PSIA 63.6  
SAMPLE TEMP. °F 113.1  
ATMOS. TEMP. °F

GAS (XX) LIQUID ( )  
SAMPLED BY: Morgan Vrana  
ANALYSIS BY: Vickie Sullivan

REMARKS: H<sub>2</sub>S = 1.5 PPM

## COMPONENT ANALYSIS

COMPONENT	MOL PERCENT	GPM
Hydrogen Sulfide (H <sub>2</sub> S)	<u>0.000</u>	
Nitrogen (N <sub>2</sub> )	3.564	
Carbon Dioxide (CO <sub>2</sub> )	0.265	
Methane (C <sub>1</sub> )	68.595	
Ethane (C <sub>2</sub> )	13.695	3.654
Propane (C <sub>3</sub> )	8.199	2.254
I-Butane (IC <sub>4</sub> )	0.977	0.319
N-Butane (NC <sub>4</sub> )	2.585	0.813
I-Pentane (IC <sub>5</sub> )	0.579	0.211
N-Pentane (NC <sub>5</sub> )	0.576	0.208
Hexane Plus (C <sub>6</sub> +) <u>0.965</u>		<u>0.419</u>
	100.000	7.878

BTU/CU.FT. - DRY 1353  
AT 14.650 DRY 1349  
AT 14.650 WET 1325  
AT 14.73 DRY 1356  
AT 14.73 WET 1333

MOLECULAR WT. 23.5866

SPECIFIC GRAVITY -  
CALCULATED 0.816  
MEASURED