

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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.*5. Lease Serial No.  
NMNM100861

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
ESMARELDA FED 24 19. API Well No.  
30-025-3448410. Field and Pool, or Exploratory  
GEM; STRAWN, EAST11. County or Parish, and State  
LEA COUNTY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
CIMAREX ENERGY COMPANY  
Contact: CRISTEN BURDELL  
E-Mail: cburdell@cimarex.com3a. Address  
202 S. CHEYENNE AVE STE 1000  
TULSA, OK 741033b. Phone No. (include area code)  
Ph: 918-560-70384. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 24 T19S R33E 1650FSL 1980FWL

APR 18 2016

RECEIVED

## 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 recompleate 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 recompleation 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.

**Electronic Submission #273884 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY, sent to the Hobbs  
Committed to AFMSS for processing by LINDA JIMENEZ on 05/04/2015 ()**

Name (Printed/Typed) CRISTEN BURDELL

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 10/27/2014

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**Approved By: *[Signature]*

Title SPET

Date 4-10-16

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 CFO

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.

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

MAY 06 2016



# Laboratory Services, Inc.

2609 West Marland  
Hobbs, New Mexico 88240

Telephone: (505) 397-3713

# Scanned

FOR: Cimarex Energy Company  
P.O. Box 1237  
Eunice, New Mexico 88231

SAMPLE: Separator Gas  
IDENTIFICATION Ismarelda Fed. 24 #1  
COMPANY: Cimarex Energy Company  
LEASE:  
PLANT:

SAMPLE DATA: DATE SAMPLED 4/17/08 11:50am  
ANALYSIS DATE: 4/18/08  
PRESSURE - PSIG 50  
SAMPLE TEMP. °F  
ATMOS. TEMP. °F 66

GAS (XX) LIQUID ( )  
SAMPLED BY: Will McDaniel  
ANALYSIS BY: Vicki McDaniel

REMARKS: H2S = 0.5 PPM

## COMPONENT ANALYSIS

COMPONENT		MOL PERCENT	GPM
Hydrogen Sulfide	(H2S)	<del>2.977</del>	
Nitrogen	(N2)	2.977	
Carbon Dioxide	(CO2)	0.384	
Methane	(C1)	58.557	
Ethane	(C2)	17.216	4.593
Propane	(C3)	11.595	3.187
I-Butane	(IC4)	1.250	0.408
N-Butane	(NC4)	4.199	1.321
I-Pentane	(IC5)	0.956	0.349
N-Pentane	(NC5)	1.319	0.477
Hexane Plus	(C6+)	1.547	0.671
		100.000	11.006

BTU/CU.FT. - DRY 1530  
AT 14.650 DRY 1525  
AT 14.650 WET 1499  
AT 14.73 DRY 1534  
AT 14.73 WET 1507

MOLECULAR WT. 26.9248

SPECIFIC GRAVITY -  
CALCULATED 0.926  
MEASURED