

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

HOBBS OGD

FORM 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.*

NOV 04 2014

5. Lease Serial No.  
NMLC064900

6. If Indian, Allottee or Tribe Name

7. If Unit or C/A Agreement, Name and/or No.  
NMNM124724

8. Well Name and No.  
FRANKLIN 18 FEDERAL COM 4H

9. API Well No.  
30-005-29090-00-S1

10. Field and Pool, or Exploratory  
UNDESIGNATED-ABO-WOLFCAMP

11. County or Parish, and State  
CHAVES COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

RECEIVED

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
CIMAREX ENERGY CO OF COLORADO  
Contact: CRISTEN BURDELL  
Email: cburdell@cimarex.com

3a. Address  
600 N. MARIENFELD STREET STE 600  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 918-560-7038

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 18 T15S R31E SESE 375FSL 375FEL

**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 recomplete 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.

**Electronic Submission #273920 verified by the BLM Well Information System  
For CIMAREX ENERGY CO OF COLORADO, sent to the Roswell  
Committed to AFMSS for processing by BEVERLY WEATHERFORD on 10/27/2014 (15BMW0062SE)**

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 /s/ Robert Hoskinson Title Lead PET Date 11/4/14

Office Roswell Field Office

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.

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 \*\***

NOV 05 2014

**Revisions to Operator-Submitted EC Data for Sundry Notice #273920**

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
Sundry Type:	OTHER SR	OTHER SR
Lease:	NMLC064900	NMLC064900
Agreement:		NMNM124724 (NMNM124724)
Operator:	CIMAREX ENERGY COMPANY 202 S. CHEYENNE AVE STE 1000 TULSA, OK 74103 Ph: 918-560-7038	CIMAREX ENERGY CO OF COLORADO 600 N. MARIENFELD STREET STE 600 MIDLAND, TX 79701 Ph: 918-560-7060
Admin Contact:	CRISTEN BURDELL REGULATORY ANALYST E-Mail: cburdell@cimarex.com  Ph: 918-560-7038	CRISTEN BURDELL REGULATORY ANALYST E-Mail: cburdell@cimarex.com  Ph: 918-560-7038
Tech Contact:	CRISTEN BURDELL REGULATORY ANALYST E-Mail: cburdell@cimarex.com  Ph: 918-560-7038	CRISTEN BURDELL REGULATORY ANALYST E-Mail: cburdell@cimarex.com  Ph: 918-560-7038
Location:		
State:	NM	NM
County:	CHAVES COUNTY	CHAVES
Field/Pool:	UNDES. ABO/ WOLFCAMP	UNDESIGNATED-ABO-WOLFCAMP
Well/Facility:	FRANKLIN FEDERAL C 4 Sec 18 T15S R31E SESE 375FSL 375FEL	FRANKLIN 18 FEDERAL COM 4H Sec 18 T15S R31E SESE 375FSL 375FEL

Wildcat Measurement Service  
P.O.Box 1836  
416 East Main Street  
Artesia, NM 88211-1836

5/17/2014 9:08 AM  
Phone: 575-746-3481  
888-421-9453  
Fax: 575-748-9852  
dnorman@wildcatms.com

### GAS ANALYSIS REPORT

Analysis For: CIMAREX ENERGY COMPANY  
Field Name:  
Well Name: FRANKLIN FEDERAL "C" #4  
Station Number: FRKCOM4  
Purpose: SEMI-ANNUAL  
Sample Deg. F: 95.4  
Volume/Day:  
Formation:  
Line PSIG: 59.9  
Line PSIA: 73.1

Run No: 2140430-31  
Date Run: 04/30/2014  
Date Sampled: 04/16/2014  
Producer: CIMAREX ENERGY CO.  
County: CHAVES  
State: NM  
Sampled By: DEREK SAUDER  
Atmos Deg. F: 82.8

GAS COMPONENTS		
	MOL%	GPM
Oxygen O2:	0.0000	
Carbon Dioxide C02:	0.0855	
Nitrogen N2:	3.8322	
Hydrogen Sulfide H2S:	0.0035	
Methane C1:	67.2585	
Ethane C2:	16.4107	4.3877
Propane C3:	7.9230	2.1822
Iso-Butane IC4:	0.8922	0.2919
Nor-Butane NC4:	1.9664	0.6198
Iso-Pentane IC5:	0.3977	0.1454
Nor-Pentanes NC5:	0.3917	0.1420
Hexanes Plus C6+:	0.8386	0.3646
Totals	100.0000	8.1336

Pressure Base: 14.730  
Real BTU Dry: 1345.790  
Real BTU Wet: 1322.427

Calc. Ideal Gravity: 0.8060  
Calc. Real Gravity: 0.8091  
Field Gravity:  
Standard Pressure: 14.696  
Ideal BTU Dry: 1336.896  
Ideal BTU Wet: 1313.634  
Z Factor: 0.9957  
Average Mol Weight: 23.3430  
Average CuFt/Gal: 53.6650  
26 lb. Product: 1.0133  
Ethane+ GPM: 8.1336  
Propane+ GPM: 3.7458  
Butane+ GPM: 1.5636  
Pentane+ GPM: 0.6520

Remarks:  
H2S IN GAS STREAM ON LOCATION: 0.0035% = 35 PPM

Analysis By: Don Norman