

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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.*

5. Lease Serial No.  
NMNM056376

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No.  
MESCALERO 30 FED 2

9. API Well No.  
30-025-36040

10. Field and Pool, or Exploratory  
GEM;STRAWN&APACHE;BONESPR

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

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
CIMAREX ENERGY COMPANY  
Contact: CRISTEN BURDELL  
E-Mail: cburdell@cimarex.com

3a. Address  
202 S. CHEYENNE AVE STE 1000  
TULSA, OK 74103  
3b. Phone No. (include area code)  
Ph: 918-560-7038

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 30 T19S R34E SWNE 1200FSL 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 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 #273858 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

**Accepted for Record** THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By James A. Cross Title SAET 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

*Handwritten initials*

**CAPITAN CHEMICAL  
WATER ANALYSIS REPORT**

Lease Name : Cimarex  
 Well Number : Mescalero 30 Fed #2  
 Location : Lea County, N.M.

Date Sampled : 07/18/06  
 Capitan Rep. : S Seed  
 Company Rep. : C Johnson

**ANALYSIS**

1. pH	6.79	
2. Specific Gravity @ 60/60 F.	1.049	
3. CaCO3 Saturation Index @ 80 F.	+0.310	'Calcium Carbonate Scale Possible'
@ 140 F.	+1.240	'Calcium Carbonate Scale Possible'

**Dissolved Gasses**

4. Hydrogen Sulfide	0	PPM
5. Carbon Dioxide	251	PPM
6. Dissolved Oxygen	Not Determined	

**Cations**

	mg/L	/	Eq. Wt.	=	MEQ/L
7. Calcium (Ca++)	2,200	/	20.1	=	109.45
8. Magnesium (Mg++)	790	/	12.2	=	64.73
9. Sodium (Na+) Calculated	25,301	/	23.0	=	1,100.04
10. Barium (Ba++)	Not Determined	/	68.7	=	0.00

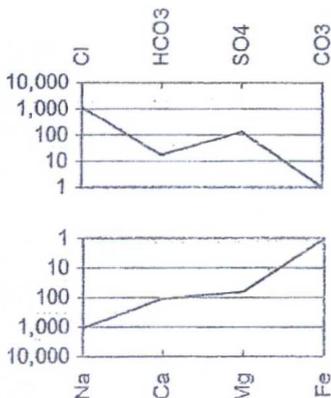
**Anions**

11. Hydroxyl (OH-)	0	/	17.0	=	0.00
12. Carbonate (CO3=)	0	/	30.0	=	0.00
13. Bicarbonate (HCO3-)	1,035	/	61.1	=	16.93
14. Sulfate (SO4=)	6,370	/	48.8	=	130.54
15. Chloride (Cl-)	40,000	/	35.5	=	1,126.76

**Other**

16. Soluble Iron (Fe)	15	/	18.2	=	0.82
17. Total Dissolved Solids	75,696				
18. Total Hardness As CaCO3	8,750				
Calcium Sulfate Solubility @ 90 F.	5,802				'Calcium Sulfate Scale Possible'
20. Resistivity (Measured)	0.110	Ohm/Meters	@ 79	Degrees (F)	

Logarithmic Water Pattern



PROBABLE MINERAL COMPOSITION

COMPOUND	Eq. Wt.	X	MEQ/L	=	mg/L
Ca(HCO3)2	81.04	X	16.93	=	1,372
CaSO4	68.07	X	92.52	=	6,298
CaCl2	55.50	X	0.00	=	0
Mg(HCO3)2	73.17	X	0.00	=	0
MgSO4	60.19	X	38.02	=	2,288
MgCl2	47.62	X	26.72	=	1,272
NaHCO3	84.00	X	0.00	=	0
NaSO4	71.03	X	0.00	=	0
NaCl	58.46	X	1,100.04	=	64,309