

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.*

OCD Artesia

**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. NMNM0560353
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: TERRI STATHEM E-Mail: tstatthem@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: 432-620-1936	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T19S R30E NWNE 330FNL 2310FEL		8. Well Name and No. CRESCENT HALE 12 FEDERAL COM 3
		9. API Well No. 30-015-40837-00-X1
		10. Field and Pool, or Exploratory BENSON
		11. County or Parish, and State EDDY COUNTY, NM

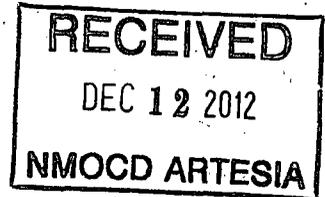
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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"/> 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 Change to Original APD.
	<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.)

Cimarex Energy respectfully requests approval to change the 9-5/8" & 5-1/2" cement design:

Propose to change 9-5/8" cement design on the Crescent Hale 12 Fed 3H to a 2 stage design due to unsuccessful primary cement jobs on direct offset wells to the west. The Crescent Hale 12 Fed 1H and Crescent Hale 12 Fed 2H did not raise cement to surface on either 9-5/8" cement jobs. As a result, 1" top jobs were performed on both wells resulting in significant additional time and cost. The 12 Fed 1H and 12 Fed 2H both encountered loss circulation approximately 75' below surface casing. Surface casing was set at 500' and 479' on the 12 Fed 1H and 12 Fed 2H, respectively. Due to loss circulation, both hole intervals were drilled with fresh water with little or no fluid returns and primary cement jobs were unsuccessful.  
Intermediate Csg:  
Approved:



Accepted for record  
12/13/2012  
TOS

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #161203 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 11/28/2012 (13KMS3995SE)

Name (Printed/Typed) TERRI STATHEM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 11/27/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CHRISTOPHER WALLS	Title PETROLEUM ENGINEER	Date 12/10/2012
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 Carlsbad

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.

## Additional data for EC transaction #161203 that would not fit on the form

### 32. Additional remarks, continued

2400' - 9-5/8" shoe depth  
620 sacks lead, 12.9 ppg, 1.92 yield  
235 sacks tail, 14.8 ppg, 1.34 yield

#### Proposed Changes

2400' 9-5/8" shoe depth  
Stage 1  
620 sacks lead, 12.9 ppg, 1.92 yield  
235 sacks tail, 14.8 ppg, 1.34 yield  
Stage 2  
Annulus Casing Packer Set at 460'  
DV Tool Set at 430'  
235 sacks, 14.8 ppg, 1.34 yield

Also propose to change the 5-1/2" cement design. Both the Crescent Hale 12 Fed.1H and Crescent Hale 12 Fed 2H successfully raised cement to surface on their respective 5-1/2" cement jobs utilizing 11.9 ppg lead and 14.5 ppg tail slurries.

#### Production Csg:

##### Approved:

13076' 5-1/2" shoe depth  
Stage 1  
300 sacks lead, 11.9 ppg, 2.43 yield  
1080 sacks tail, 14.5 ppg, 1.22 yield  
Stage 2  
DV Tool Set at 4,170'  
475 sacks lead, 11.9 ppg, 2.43 yield  
100 sacks tail, 14.5 ppg, 1.22 yield

#### Proposed Changes

13,076' 5-1/2" shoe depth  
1200 sacks lead, 11.9 ppg, 2.43 yield  
1300 sacks tail, 14.5 ppg, 1.22 yield

**Conditions of Approval**  
Crescent Hale 12 Fed Com 3H

1. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - a. First stage to DV tool:
    - Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
  - b. Second stage above DV tool:
    - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
  
2. The minimum required fill of cement behind the 5-1/2 inch production casing is:
  - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

CRW 121012