

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.

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. NMNM15906
2. Name of Operator CIMAREX ENERGY COMPANY OF CO		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET, SUITE 600 MIDLAND, TX 79701		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 432-571-7848		8. Well Name and No. SNODDY FEDERAL 21H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 26 T20S R32E NENE 797FNL 596FEL		9. API Well No. 30-025-40838-00-X1
		10. Field and Pool, or Exploratory SALT LAKE Bone Spring
		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 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
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompleat 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 recompleat 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 the following changes to the APD for the above well:

- Proposed Drilling Plan should read:
"drill 7-7/8" hole to KOP @ 9423' and then kick off for 7-7/8" lateral." This is instead of an 8.75" hole.
- Bit Size
We would like to drill Surface #1 with a 20" bit instead of an 18.5" bit. This gives us more clearance running casing and is similar in design to the Snoddy #20H.
- Centralizers:
We do not plan to run centralizers in the lateral. Our centralization plan for the 5.5" casing is

14. I hereby certify that the foregoing is true and correct. Electronic Submission #201055 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Hobbs Committed to AFMSS for processing by WESLEY INGRAM on 03/08/2013 (13WWI0066SE)	
Name (Printed/Typed) PAULA BRUNSON	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 03/07/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>WESLEY INGRAM</u>	Title <u>PETROLEUM ENGINEER</u>	Date <u>03/11/2013</u>
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 Hobbs		

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.

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Additional data for EC transaction #201055 that would not fit on the form

32. Additional remarks, continued

1 every joint in curve, 1 every 4th joint from KOP to 4000'.

4. Casing:

Change the 8-5/8" casing from N80 to J55, similar to the Snoddy #20H.

5. Cement - based on Snoddy #20H offset volumes:

Surface #1:

Lead 960 sks, 13.5 ppg, 1.75 yield

Tail 260 sks, 14.8 ppg, 1.33 yield

Surface #2:

Lead 1200 sks, 12.9 ppg, 1.88 yield

Tail 200 sks, 14.8 ppg, 1.34 yield

Intermediate:

Lead 700 sks, 12.9 ppg, 1.88 yield

Tail 200 sks, 14.8 ppg, 1.33 yield

- Surface #1:
 - Lead "ExtendaCem - CZ" 960 sks, 13.5 ppg, 1.75 yield
 - Tail "HalCem – C" 260 sks, 14.8 ppg, 1.33 yield
 - Tail slurry changed from a 14.2 ppg to 14.8 ppg from original APD. The 14.8 tail slurry is what we've been pumping for the vast majority of our surface and intermediate jobs. The 14.2 on the original APD may have been a typo. Volume changed based on Snoddy 20H offset.

- Surface #2:
 - Lead "EconoCem – HLC" 1200 sks, 12.9 ppg, 1.88 yield
 - Tail "HalCem – C" 200 sks, 14.8 ppg, 1.34 yield
 - Revised Lead slurry to "EconoCem" (12.9 ppg) rather than "ExtendaCem" (13.5 ppg) due to pricing and cement lift was successfully obtained with this lighter lead slurry density on the Snoddy 20H. Tail slurry changed from a 14.2 ppg to 14.8 ppg from original APD. The 14.8 tail slurry is what we've been pumping for the vast majority of our surface and intermediate jobs. The 14.2 on the original APD may have been a typo. Volume changed based on Snoddy 20H offset.

- Intermediate:
 - Lead "EconoCem – HLC" 700 sks, 12.9 ppg, 1.88 yield
 - Tail "HalCem – C" 200 sks, 14.8 ppg, 1.33 yield
 - Revised Lead slurry to "EconoCem" (12.9 ppg) rather than the 14.6 ppg, which may have been a typo. Cement lift was successfully obtained with this lighter lead slurry density on the Snoddy 20H. Volume changed based on Snoddy 20H offset.