

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCDA Artesia

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 type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM104661
2. Name of Operator CIMAREX ENERGY COMPANY OF CO Contact: TERRI STATHEM Mail: tstathem@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. NMNM120212
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 20 T25S R26E NWSW 1980FSL 660FWL		8. Well Name and No. TRINITY 20 FEDERAL COM 2
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. API Well No. 30-015-34500-00-S1
		10. Field and Pool, or Exploratory COTTONWOOD DRAW
		11. County or Parish, and State EDDY COUNTY, NM

**RECEIVED**  
 FEB 12 2013  
 NMOCDA ARTESIA

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 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 checked="" 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 PERFORM OPEN HOLE ISOLATION PROCEDURE AS INDICATED BELOW:

Performed Pressure Test - Per Paul Swartz BLM  
PUMPED 5 BBLs DOWN TBG, PRESSURED UP TO 3,500#, SHUT DOWN PUMP, 30 MINUTES AFTER SHUTTING DOWN PUMP, PRESSURE GAUGE READING ON TBG WAS 2,500#. MR SWARTZ W/ BLM WAS PRESENT FOR INJECTION RATE.

Procedure:

1. Notify BLM ? Paul Swartz of intent to work on well.
2. MIRU pulling unit. Set pipe racks w/ 2 7/8 P-110 Work string. Blow well down, and kill well w/ BW as needed. ND WH, NU BOP.
3. Take measures to either retrieve or otherwise clear the stuck spear from the

Accepted for record  
NMOCDA Artsia 2/14/13

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

Electronic Submission #162052 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 12/13/2012 (13KMS4123SE)

Name (Printed/Typed) TERRI STATHEM	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 12/09/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By (BLM Approver Not Specified)	Title	Date 02/08/2013
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	<p style="border: 1px solid black; padding: 5px;"> <b>APPROVED</b>            FEB 8 2013            Is/Chris Walls            BUREAU OF LAND MANAGEMENT            CARLSBAD FIELD OFFICE         </p>	

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 #162052 that would not fit on the form**

**32. Additional remarks, continued**

4.5" liner.

4. MIRU wireline truck. RIH w/ GRJB for 4.5-11.6 liner. RIH & Perforate squeeze circulation holes @ 9951' (50' above 7" csg shoe per BLM requirement). RDMO wireline.

5. RIH w/ 4.5" CICR and set @ 10700'. (Notify BLM ? Paul Swartz of intent to pump cement ? 4 hr minimum notice) MIRU cement company. Mix and pump 110 sx Class H cement and flush w/ 60 bbls. Sting out of retainer and leave 2 bbls cement on top of retainer. Sting out of retainer and POOH to 9890'. Reverse hole clean. POOH w/ tbg and setting tool. WOC. RIH w/ tbg and tag cement (minimum cement top to be at 9951') w/ BLM witness.

6. Once Tagged cement depth desired by BLM is satisfied, resume efforts to remove top section of liner top. If successful in removing liner from 9890' up, Include bottom perforated interval in Wolfcamp recompletion. If unsuccessful in removing liner section, Recomplete Wolfcamp without bottom perf interval and follow original recompletion procedure as needed.

## Conditions of Approval

**Cimarex Energy Company**

**Trinity 20 Federal Com 2**

**API 30-015-34500**

**T25S-R26E, Sec 20**

February 8, 2013

1. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.
2. Subject to like approval by the New Mexico Oil Conservation Division.
3. **Provide BLM with an electronic copy (Adobe Acrobat Document) cement bond log record from 9,600' or below to top of cement. The CBL may be attached to a [pswartz@blm.gov](mailto:pswartz@blm.gov) email.**
4. Notify BLM 575-200-7902 before plug back procedures. The procedures are to be witnessed. If no answer, leave a voice mail with the API#, workover purpose, and a call back phone number. If there is no response, 575-361-2822. Note the contact, time, & date in your subsequent report.
5. Surface disturbance beyond the originally approved pad must have prior approval.
6. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
7. Functional H<sub>2</sub>S monitoring equipment shall be on location.
8. A minimum of 3,000 (3M) BOPE shall be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M) Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.
9. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.
10. The BLM PET witness is to run tbg tally and agree to cement placement. Sample each plug for cement curing time and tag and/or pressure test (WOC time of 4 hours recommended) as requested by BLM PET witness.

11. Class H > 7,500' & C < 7,500') cement plugs(s) will be necessary. The minimum pumped volume of 25 sacks of cement slurry is to exceed a 100' cement plug across the drilled wellbore. Add 10% to the 100' slurry volume for each 1,000' of plug depth when calculations indicate the need. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft<sup>3</sup>/sx, 6.3gal/sx water and "H" to be mixed 15.6#/gal, 1.18ft<sup>3</sup>/sx, 5.2gal/sx water.
12. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
13. **Step 6 of NOI: A balanced cement required is required to be set from the CICR at ~10,700' to 50' above the 7" csg shoe or 50' above the top of the 4 ½" liner whichever is higher,**
14. **After setting the top plug and before perforating, perform a BLM PET witnessed (charted) casing integrity test of 600 psig. Pressure leakoff may require correction for approval. Include a copy of the chart in the subsequent sundry for this workover.**
15. File intermediate **subsequent sundry** Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry. File the subsequent sundry for the frac separately if it is delayed as much as 20 days.
16. Submit the BLM Form 3160-4 **Completion Report** within 30 days of the date all BLM approved procedures are complete. **Include all formation tops including the Wolfcamp formation.**

**Amendments to the Communitization Agreement must also be made if new formations are added.**

17. Workover approval is good for 90 days (completion to be within 90 days of approval). A legitimate request is necessary for extension of that date.

An inactive/shut-in well bore is a non-producing completion that is capable of "beneficial use" i.e. production in **paying quantities** or of service use.

18. Submit evidence to support your determination that the well has been returned to active "beneficial use" for BLM approval on the Sundry Notice Form 3160-5 (the original and 3 copies) before 05/10/2013.
19. Should "beneficial use" not be achieved submit for BLM approval a plan for plug and abandonment.

PRS/CRW

Access information for use of Form 3160-5 "Sundry Notices and Reports on Wells"

NM Fed Regs & Forms - [http://www.blm.gov/nm/st/en/prog/energy/oil\\_and\\_gas.html](http://www.blm.gov/nm/st/en/prog/energy/oil_and_gas.html)

§ 43 CFR 3162.3-2 Subsequent Well Operations.

§ 43 CFR 3160.0-9 (c)(1) Information collection.

§ 3162.4-1 (c) Well records and reports.