

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD 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 checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM97874
2. Name of Operator CIMAREX ENERGY CO OF COLORADO		6. If Indian, Allottee or Tribe Name
Contact: NATALIE E KRUEGER Email: nkrueger@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 600 E MARIENFELD ST SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-620-1936 Fx: 432-620-1940	8. Well Name and No. THORNTAIL 31 FEDERAL 1 ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 31 T16S R29E SESE 525FSL 330FEL ✓ 32.87234 N Lat, 104.10667 W Lon		9. API Well No. 30-015-38140-00-X1 ✓
		10. Field and Pool, or Exploratory EMPIRE EMPIRE GLORIETA-YESO ✓
		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 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	Well Spud
	<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 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 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.)

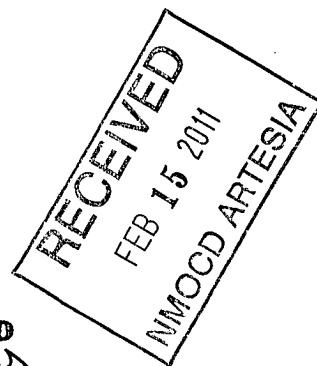
09.25.10 Spudded 16" hole. Ran 7 jts 11-3/4 42# H40 STC @ 305. Cmt with lead #1 100 sx H, lead #2 175 sx C, tail 200 sx C. No circ.

09.26.10 TS TOC 170. Tagged @ 221. 1" to 219 w/ 50 sx C, tagged @ 221. 1" to 219 w/ 50 sx C, tagged @ 173. 1" to 156 w/ 50 sx C, tagged @ 129. 1" to 125 w/ 150 sx C, tagged @ 55. 1" to 53 w/ 75 sx C, circ 10 sx. WOC 17 hrs.

09.27.10 Tested csg to 1400 psi for 30 min, ok.

09.28.10 In 11 hole, ran 22 jts 8-5/8 24# J55 STC @ 922. Cmt with lead #1 100 sx H, lead #2 260 sx C, tail 300 sx C. TS TOC 313.

Accepted for record - NMOC



14. Thereby certify that the foregoing is true and correct. Electronic Submission #101719 verified by the BLM Well Information System For CIMAREX ENERGY CO OF COLORADO, sent to the Carlsbad Committed to AFMSS for processing by CHERYLE RYAN on 02/03/2011 (11CMR0322SE)	
Name (Printed/Typed) NATALIE E KRUEGER	Title REGULATORY
Signature (Electronic Submission)	Date 01/31/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED	DUSTIN WINKLER Title PETROLEUM ENGINEER	Date 02/11/2011
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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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Additional data for EC transaction #101719 that would not fit on the form

32. Additional remarks, continued

09.29.10 1" to 313 w/ 125 sx C. No circ, received permission to pump cmt down backside of 8-5/8 csg from BLM. Pumped 40 sx C down backside, circ 17 sx, WOC 11.5 hrs.

09.30.10 Tested csg to 2000# for 30 min, ok.

10.03.10 TD'd 7-7/8 hole @ 5300.

10.04.10 Ran 130 jts 5-1/2 17# P110 LTC @ 5300. Cmt with lead 500 sx 35/65 POZC, tail 270 sx PVL. Circ 5 sx.

10.05.10 RR.

11.09.10 Tested csg to 3000# for 30 min, ok.