

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA



FORM APPROVED  
OMB No. 1004-0135  
Expires July 31, 1996

DEC 10 2008

OCD-ARTESIA

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. NM-14124
2. Name of Operator Cimarex Energy Co. of Colorado		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 140907; Irving, TX 75014-0907	3b. Phone No. (include area code) 972-401-3111	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec, T, R, M., or Survey Description) SHL 2640 FSL & 660 FWL 12-25S-26E BHL 330 FSL & 660 FWL		8. Well Name and No. Marquardt Federal No. 9
		9. API Well No. 30-015-36655
		10. Field and Pool, or Exploratory Area Sulphate; Delaware, SW
		11. County or Parish, 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 checked="" 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 <u>Alter Drilling</u>
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>Plans - use fiberglass casing</u>
	<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, included 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 has changed casing plans on this well as shown on the attached page.

ACCEPTED FOR RECORD

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

DEC 10 2008

Garry Gave, Deputy Field Inspector  
NMOCED District Manager

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Natalie Krueger		Title Regulatory Analyst
Signature <i>Natalie Krueger</i>		Date December 1, 2008
THIS SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	<b>APPROVED</b> DEC 4 2008 <i>Wesley W. Ingram</i> WESLEY W. INGRAM PETROLEUM ENGINEER
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	
Title 18 U.S.C. Section 1001, makes 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. (Instructions on reverse)		

3160-5 Revised Casing Plans  
**Marquardt Federal No. 9**  
 Cimarex Energy Co. of Colorado  
 30-015-36655  
 12-25S-26E  
 Eddy County, NM

**Casing**

<u>String</u>	<u>Hole Size</u>	<u>Csg Size</u>	<u>Csg Wt</u>	<u>Csg Grd</u>	<u>Collar</u>	<u>From</u>	<u>To</u>
Surface	12¼"	8⅝"	24#	J-55	<del>STC LTC</del>	0'	430'
Production	7⅞"	5½"	17#	J-55	LTC	0'	* 2815'
Lateral	4¾"	2⅞"	6.5#	L-80	EUE	2815'	5296'

\* Intermediate casing to 2815' but hole depth is 3500' (2815' to 3500' with fiberglass tubing)

**Cement**

**Surface**      Lead: 150 sx 10:2 RFC (Class A) + 4 pps D24 + 0.125 pps D130 (wt 14.20, yld 1.62)  
Tail: 150 sx Class C + 2% S1 + 0.125 pps D130 (wt 14.80, yld 1.34)

**Production**      Lead: 550 sx 50:50 Poz:Class H + 5% D44 (bwow) + 6% D20 + 0.2% D46 + 0.125 pps D130 (wt 11.90, yld 2.38)  
Tail: 400 sx TXI Lightweight + 1.33% D44 (bwow) + 0.1% D167 + 0.1% D65 + 0.1% D13 (wt 13.00, yld 1.40)

**Lateral**      Lateral liner will be PEAK completion assembly liner and will require no cement.

**Drilling Plans**

After drilling and setting surface casing, drill to vertical TD 3500' and log. Set 5½" casing to 2815' and cross over to 2⅞" 2000 psi IJ fiberglass tubing underneath (to 3500') and cement in place. Drill out of the bottom of the 5½" with a 4¾" bit and through cement and fiberglass tubing to KOP @ 2875' and kick off to drill the lateral. The fiberglass tubing effectively circulates cement to surface and plugs back the open hole.

We will no longer drill the pilot hole and plug back with cement plugs then use a whipstock to drill the lateral.

3070' TVD

Kick off 4¾" hole @ 2875.' Drill to <sup>MD</sup>TD 5296.' Run 2⅞" PEAK liner from RSB packer @ 2775' to <sup>MD</sup>TD @ 5296.' Fracture treat through iso-ports using iso-packers.

3070' TVD

**Marquardt Federal 9  
30-015-36655  
Cimarex Energy Co. of Colorado  
December 4, 2008  
Conditions of Approval**

- 1. This surface well location is unorthodox. The well does not become orthodox until the measured depth of 3375 feet.**
- 2. The surface contingency casing plan due to the high cave/karst area is still in effect.**
- 3. Production casing wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to high cave/karst.**

**WWI 120408**