

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

RECEIVED

NOV 09 2010
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. LC-063586
2. Name of Operator Cimarex Energy Co. of Colorado	6. If Indian, Allottee or Tribe Name
3a. Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701	7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) 432-571-7800	8. Well Name and No. Southern California 29 Federal No. 16
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL 1980 FNL & 375 FWL 29-19S-32E BHL 1980 FNL & 375 FEL	9. API Well No. 30-025-39853
	10. Field and Pool, or Exploratory Area Lusk; Bone Spring, S
	11. County or Parish, State Lea, 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 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 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 is switching from 4 1/2" PEAK liner to 4 1/2" 11.6# P-110 (800 BTC) ^{4163'} (4600 LTC) cemented liner. Top of liner at 8800' bottom of liner at 13763'. Cement with 445 sx Poz Premium+ Halad R-344+ 0.4% CFR-3 (wt 14.5, yld 1.22) 7"/2 7/8" FG production casing remains as permitted 7" at 9000' 2 7/8" FG to 9550' cemented to 2800' per COA's

5 1/2" Contingency

If hole conditions warrant propose to switch from 7"/2 7/8 FG production casing with 4 1/2" cemented liner described above to 5 1/2" cemented casing for production lateral with cement kick off plug.

Drill vertical to permitted pilot hole depth of 9550' and log. Set cement kick off plug from 9070'-9550' with 250sx HalCem-H 0.5% CFR-3 0.1% HR-601 (16.5 ppg 1.06 yld). Kick off 8 3/4" hole at 9060'. Drill lateral to 13763' MD TVD 9300' and run 5 1/2" 17# P-110 LTC (600' BTC in curve) from 0-13763'. Cement with lead 770sx EconoCem H+ 0.2% HR-601 (11.9 ppg 2.44 yld) Tail with 1760 sx VersaCem H+ 0.5% Halad R-344+ 0.4% CFR-3 (14.5 ppg 1.34 yld) TOC 2800' per COA's

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Zeno Farris

Signature

Zeno Farris

Title

Manager Operations Administration

Date

October 28, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

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)

APPROVED

NOV 3 2010
Is/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Cimarex Energy Co. of Colorado
LEASE NO.:	NMLC-063586
WELL NAME & NO.:	Southern California 29 Federal #16
SURFACE HOLE FOOTAGE:	1980' FNL & 375' FWL
BOTTOM HOLE FOOTAGE	1980' FNL & 330' FEL
LOCATION:	Section 29, T. 19 S., R 32 E., NMPM
COUNTY:	Lea County, New Mexico

A. CASING

1. The minimum required fill of cement behind the 7 inch production casing is:

☒ Cement should be at least **50** feet above the top of the Capitan Reef. Operator shall provide method of verification. **Additional cement may be required as the excess calculates to negative 19%.**

2. The minimum required fill of cement behind the 4-1/2" liner is:

☒ Cement to top of liner. **Additional cement may be required as the excess calculates to 15%.**

Contingency Casing:

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

☒ Cement should be at least **50** feet above the top of the Capitan Reef. Operator shall provide method of verification. **Additional cement may be required as the excess calculates to 19%.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

CRW 110310