

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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

**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.  LC-069276
2. Name of Operator Cimarex Energy Co. of Colorado ✓		6. If Indian, Allottee or Tribe Name
3a. Address 5215 N. O'Connor Blvd., Ste. 1500; Irving, TX 75039		7. If Unit or CA/Agreement, Name and/or No
3b. Phone No. (include area code) 972-401-3111		8. Well Name and No. Hudson 31 Federal No. 4 ✓
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 735 FNL & 660 FWL 30-18S-33E W-D ✓		9. API Well No. 30-025-34301 ✓
		10. Field and Pool, or Exploratory Area Corbin; Wolfcamp, South ✓
		11. County or Parish, 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 to Bone Spring	<input checked="" type="checkbox"/> Other RC to Bone Spring
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	& DHC w/ current
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	Wolfcamp perfs

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.)

The Hudson 31 Federal No. 4 is currently producing from Wolfcamp perfs @ 10616-76' -- 10941-77' -- 11001-26' -- 11070-80' -- 11088-108.' Cimarex would like to set a CIBP over the Wolfcamp w/ 2 sx sand, perf, acidize, and frac the Bone Spring, obtain Bone Spring production test, and possibly remove CIBP over Wolfcamp and DHC the two zones.

Please see attached recompletion procedure and C-102s.

DHC authority will be obtained for the well from the NMOCD once Bone Spring production has been evaluated

RECEIVED  
JUN 23 2009  
HOBBSOCD

*\* DHC is Subject to like Approval from State*

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)  Natalie Krueger		Title Regulatory	<b>Oil Conservation Division</b> Conditions of approval: Approval for drilling/workover ONLY--- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.
Signature <i>Natalie Krueger</i>		Date June 10, 2009	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE		APPROVED	
Approved by	PETROLEUM ENGINEER	Date	JUN 21 2009
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.		JAMES A. AMOS	
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 statement or fraudulent statements or representations as to any matter within its jurisdiction.		JUN 26 2009	

# HUDSON 31 FEDERAL #4 BONE SPRING RECOMPLETION

API # 30-025-34301

735' FNL & 660' FWL

Section 30, T18S, R33E

Lea County, New Mexico

RKB : 3795'  
KB : 20'  
TD DRILLER : 11500'  
PBSD : 11455'  
SURF CSG : 13-3/8" OD 48#/FT H-40 @ 396' Cmtd W/115 SX.(CIRC)  
INTER CSG : 8-5/8" OD 32#/FT J-55 @ 2893' Cmtd W/800 SX. (CIRC)  
PROD CSG : 5-1/2" 17# L-80 & J-55 @ 11500' Cmtd W/650 SX  
Bottom of J-55 @ 5500'  
17# J-55 burst @ 5320 PSI, 17# L-80 burst @ 7740 PSI.  
TUBING: 356 jts of 2-7/8" N-80 @ 11176'  
WOLFCAMP PERFS : 10616'-76', 10941'-77', 11001'-26', 11070'-80', 11088'-108'

## BONE SPRING

1. MIRU PULLING UNIT. PERFORM PRE-JOB SAFETY MEETING. POOH W/ RODS. ND WELLHEAD NU BOPS. TOOH WITH TUBING. SCAN TUBING COMING OUT OF HOLE.
2. RIH W/ 4-3/4" BIT AND SCRAPER ON 2-7/8" TUBING TO 11120'. TOOH W/ BIT, SCRAPER, AND TUBING.
3. RIH W/ 5-1/2" CIBP ON WIRELINE AND SET AT 10,580'. LOAD CSG W/ 2% KCL WATER AND TEST TO 500#. DUMP BAIL 2 SX OF SAND.
4. RIH W/ SCHLUMBERGER LOGGING TOOLS AND LOG CBL FROM 10,000' TO 7000'. REPORT TOC BY CBL TO MIDLAND ENGINEERING.
5. RIH W/ 4" PERFORATING GUNS. PERFORATE BONE SPRING INTERVALS FROM 8578'-82', 8591'-8612', 8625'-27', 8644'-8651', 8432'-78', 8515'-22' USING 1 SPF W/ 120 DEG. PHASING 91 HOLES. CORRELATE TO OPEN HOLE SCHLUMBERGER NEUTRON-DENSITY LOG DATED 3/13/1998. MONITOR FLUID LEVEL IN AND OUT OF HOLE.
6. RIH W/ 5-1/2" TREATING PACKER AND 5-1/2" RBP W/ BALL CATCHER ON 2-7/8" TUBING. SET 5-1/2" RBP W/ BALL CATCHER AT 8700'. SET TREATING PACKER AT 8555'.
7. RU BJ STIMULATION. BREAKDOWN PERFORATIONS FROM (8578'-8651') USING **2000** GALLONS 7.5% NEFE ACID BLEND AND 58 BALL SEALERS MAX RATE 8 BPM MAX PRESSURE = 5000 PSI. **RECORD 1 SECOND FALLOFF DATA FOR 1 HOUR.**
8. RELEASE 5-1/2" TREATING PACKER @ 8560'. GO DOWN AND PU 5-1/2" RBP W/ BALL CATCHER AT 8700'. SET 5-1/2" RBP W/ BALL CATCHER AT 8555'. SET 5-1/2" TREATING PACKER AT 8545'. PRESSURE TEST 5-1/2" RBP TO 1500#. RELEASE 5-1/2" TREATING PACKER AT 8545'. SET 5-1/2" TREATING PACKER AT 8400'.
9. BREAKDOWN PERFORATIONS FROM (8432'-8522') USING **3000** GALLONS 7.5% NEFE ACID BLEND AND 83 BALL SEALERS MAX RATE 8 BPM MAX PRESSURE = 5000 PSI. **RECORD 1 SECOND FALLOFF DATA FOR 1 HOUR.**
10. RELEASE 5-1/2" TREATING PACKER @ 8400'. GO DOWN AND PU 5-1/2" RBP W/ BALL CATCHER AT 8545'. SET 5-1/2" RBP W/ BALL CATCHER AT 8690'. SET 5-1/2" TREATING

PACKER AT 8390'. SWAB WELL DOWN TO SN ON DAY OF ACID JOB. RECORD CUT AND FLUID ENTRY THE NEXT MORNING AND REPORT TO ENGINEERING IN MIDLAND.

11. RELEASE 5-1/2" TREATING PACKER @ 8390'. GO DOWN AND PU 5-1/2" RBP W/ BALL CATCHER AT 8690'. TOO H W/ 5-1/2" RBP W/ BALL CATCHER AND 5-1/2" TREATING PACKER ON 2-7/8" TUBING.
12. PICK UP 3-1/2" P-110 FRAC STRING W/ LOWER AND UPPER 5-1/2" TREATING PACKERS ON DUAL FRAC PACKER ASSEMBLY. TEST TUBING GOING INTO HOLE TO 9000#. SET LOWER DUAL FRAC PACKER AT 8550'.
13. NU FRAC VALVE. RIG UP FLOWBACK MANIFOLD. FRACTURE STIMULATE WITH 12K# 14/40 LITEPROP 108 WITH RESIN COATED TAIL-IN DOWN 3-1/2" FRAC STRING. INCLUDE SCALE INHIBITOR IN FRAC FLUIDS.
14. PULL OUT OF LOWER FRAC PACKER. SET TOP DUAL FRAC PACKER AT 8350'.
15. FRACTURE STIMULATE WITH 14K# 14/40 LITEPROP 108 WITH RESIN COATED TAIL-IN DOWN 3-1/2" FRAC STRING CASING. INCLUDE SCALE INHIBITOR IN FRAC FLUIDS. FLOWBACK IMMEDIATELY BEGINNING AT 1.5 BPM UNTIL WELL DIES. REPORT FLOW RESULTS OF BONE SPRING ZONE AND REPORT TO ENGINEERING.
16. RELEASE UPPER DUAL FRAC PACKER AT 8350'. TOO H W/ 3-1/2" FRAC STRING LAYING DOWN TUBING AND UPPER FRAC PACKER.
17. RIH WITH 2-7/8" TUBING W/ ON/OFF TOOL. LATCH ONTO LOWER DUAL FRAC PACKER AT 8550'. RELEASE LOWER DUAL FRAC PACKER. BLEED OFF ANY PRESSURE FROM BELOW PACKER. TOO H W/ 2-7/8" TUBING AND LOWER DUAL FRAC PACKER.
18. RIH W/ 2-7/8" TUBING AND BHA CONFIGURED FOR PUMPING. SET EOT @ 8750'.
19. INSTALL PUMPING EQUIPMENT AND OBTAIN PRODUCTION TEST FROM BONE SPRING PAY.
20. HAVE CHEMICAL COMPANY MONITOR SCALE INHIBITOR RESIDUALS MONTHLY. OBTAIN DYNO CARD AND FLUID LEVEL AFTER WELL HAS BEEN PUMPING FOR 10 DAYS.
21. EVALUATE BONE SPRING PRODUCTION AND DETERMINE TIMELINE FOR DRILLING OUT CIBP OVER WOLFCAMP AND COMINGLING PRODUCTION.