

(November 1994)

UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

FORM APPROVED

OMB No. 1004-0135

Expires July 31, 1996

5. Lease Serial No.

NM-9824

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

Laguna Deep Federal Unit No. 5

9. API Well No.

30-025-34749

10. Field and Pool, or Exploratory Area

Teas; Bone Spring

11. County or Parish, State

Lea County, NM

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

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Cimarex Energy Co. of Colorado

3a. Address

PO Box 140907; Irving, TX 75014-0907

3b. Phone No. (include area code)

972-401-3111

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1980' FNL & 660' FWL

35-19S-33E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice

TYPE OF ACTION

☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other Add additional

Bone Spring, DHC w/

Wolfcamp

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)

Well is currently producing from Bone Spring perfs @ 9274'-9731'. Wolfcamp perfs @ 11322'-11352' are behind a CBP @ 9650'. Morrow perfs @ 13124'-13181' are plugged behind CIBP @ 13100' w/ 35' cmt.

Cimarex proposes to perform the following operations in order to add additional Bone Spring pay and DHC with Wolfcamp perfs:

- TOOH w/ rods and pump and tubing.
- Perf Bone Spring 9377'-9383' -- 9388'-9413' -- 3 spf, 120° phasing, 45 holes.
- Set RBP @ 9450' and acidize Bone Spring 9377'-9413' w/ 3100 gal 10% NeFe Bone Spring Acid Blend and 72 ball sealers. Obtain test.
- Release RBP @ 9450'. Release RBP over Wolfcamp @ 9650'. DHC Tonto; Wolfcamp and Teas; Bone Spring perfs. Turn to sales.

* Approval Subject to like Approval from State OCD

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

Name (Printed/Typed)

Natalie Krueger

Signature

Title

Regulatory Analyst

Date

November 18, 2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

APPROVED

Date

NOV 29 2008

JAMES A. AMOS

SUPERVISOR-EPS

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the land or equitable title to those rights in the subject lease operations thereon.

Oil Conservation Division
Conditions of approval: Approval for drilling/workover ONLY-- CANNOT produce Downhole Commingled until DHC is approved in Santa Fe.

(Instructions on reverse)

LAGUNA DEEP UNIT FEDERAL #5 BONE SPRINGS RECOMPLETION

API # 30-025-34749
1980' FNL & 660' FWL
Section 35, 19S, R-33E
Lea County, New Mexico

GL : 3586'
KB : 3606'
TD DRILLER : 13650'
TD LOGGER: 13645'
SURF CSG : 13-3/8" OD 48#/FT AT 855' W/ 660 SX. TOC 0' (CIRC)
INTER CSG: 8-5/8" OD 32 #/FT J-55/N-80 @ 5210' W/ 2200 SX. TOC 0' (CIRC 460 SX 2ND STAGE)
PROD CSG : 5-1/2" OD 17# N-80 / P-110 @ 13650' W/ 930 SX. TOC 8530' (OCD COMP FORM)
DV TOOL AT 10,109' (CIRC'D 1ST STAGE)
ID=4.892", DRIFT=4.767", BURST=7740 (N-80), CAPACITY=0.9764 GAL/LF
TUBING: 2-7/8" L-80 6.5# (270 JOINTS), 5-1/2"x2-7/8" TAC, 2-7/8" 6.5# L80 (20 jts), 2-7/8" SN,
2-7/8" SAND SCREEN, 2-7/8" NIPPLE, 3" MUD ANCHOR W/ BULL PLUG. EOT@9827'
CIBP: 13100' w/ 35' CMT
CBP: 11250' (PBTD)
PERFS: 13,262-274' (24 HOLES); 13,171-181' (SQUEEZED); 13,124-134' (SQUEEZED)
11,322-330', 11339'-42', 11344'-47', 11349'-352' (55 HOLES)
9713'-9731' (55 HOLES)
9274'-78', 9292'-9300' (36 HOLES)

BONE SPRING

1. MIRU PULLING UNIT. PERFORM PRE-JOB SAFETY MEETING. TOO H W/ RODS AND PUMP. ND WELLHEAD NU BOPS. RELEASE TAC @ 9118'. TOO H WITH TUBING.
2. RIH W/ 4-3/4" BIT AND SCRAPER ON 2-7/8" TUBING TO PBTD @ 11250'. TOO H W/ BIT, SCRAPER, AND TUBING.
3. RIH W/ 3-1/8" PERFORATING GUNS. PERFORATE BONE SPRING INTERVAL FROM (9377'-9383') & (9388'-9413') USING 3 SPF W/ 120 DEG. PHASING 95 HOLES. CORRELATE TO SCHLUMBERGER LATERLOG DATED 12/9/1999. MONITOR FLUID LEVEL IN AND OUT OF HOLE.
4. RIH WITH 5-1/2" RBP W/ BALL CATCHER AND 5-1/2" TREATING PACKER ON 2-7/8" TUBING, TESTING TUBING IN HOLE TO 7000 PSI. SET RBP @ 9450'. RELEASE 2-7/8" TUBING AND PULL UP AND SET PACKER @ 9350'.
5. RU BJ STIMULATION. BREAKDOWN PERFORATIONS FROM (9377'-9383') & (9388'-9413') USING 3100 GALLONS 10% NEFE BONE SPRING ACID BLEND AND 152 BALL SEALERS. MAX RATE 8 BPM MAX PRESSURE = 7000 PSI. **RECORD 1 SECOND DATA FOR 1 HOUR FOLLOWING ACID JOB.** SWAB PERFS DOWN TO SN ON DAY OF ACID JOB. RECORD CUT AND FLUID ENTRY FOR THE FIRST RUN THE FOLLOWING DAY. CONTINUE SWABBING AND REPORT RESULTS TO ENGINEERING.
6. RELEASE TREATING PACKER AT 9350'. GO DOWN AND PICK UP RBP AT 9450'. TOO H W/ PACKER, RBP, AND 2-7/8" TUBING.
7. RIH WITH 2-7/8" TUBING AND BHA CONFIGURED FOR PUMPING AND SET EOT @ ~9780'.
8. INSTALL PUMPING EQUIPMENT AND OBTAIN PRODUCTION TEST FROM COMMINGLED BONE SPRING AND WOLFCAMP PAY.

CIMAREX ENERGY CO.

Gem East Morrow

LAGUNA DEEP FEDERAL UNIT #5

Spudded 11/2/99

API 30-025-34749

Federal Lease NM9824

WI = 93.54% NI = 78.0493%

CURRENT COMPLETION

ERE 4/26/2006; Revised 11/4/08

KB = 20'

GL: 3586'

20" conductor @ 40'

13-3/8" (17-1/2" hole), 48#, K-55 or H-40?
@855' w/ 660 sx cmt
TOC @ surface - circ

drilled by Matador, then Tom Brown, Gruy,
now Cimarex operated
max deviation: 2.5 @ 3252' & 2.25 @ 8831'

8-5/8" (12-1/4" hole), 32# J-55 & N-80
@ 5210' w/ 2200 sx cmt in 2 stages
no rtms on 1st stage, circ 460 sc 2nd stage
ECP/DV tool @ 2525' TOC @ surface - circ

Tbg Detail

KB 20' correction used
270 jts of 2-7/8" 6.5# L80 tbg
5-1/2"x2-7/8" TAC w/ carbide slips
20 jts of 2-7/8" 6.5# L80 tbg
2-7/8" Mech SN w/ 30' 1-1/4" gas anchor
2-7/8" slotted sand screen
2-7/8" nipple
3" mud anchor w/ bull plug

EOT @ 9826.69'

Rod Detail

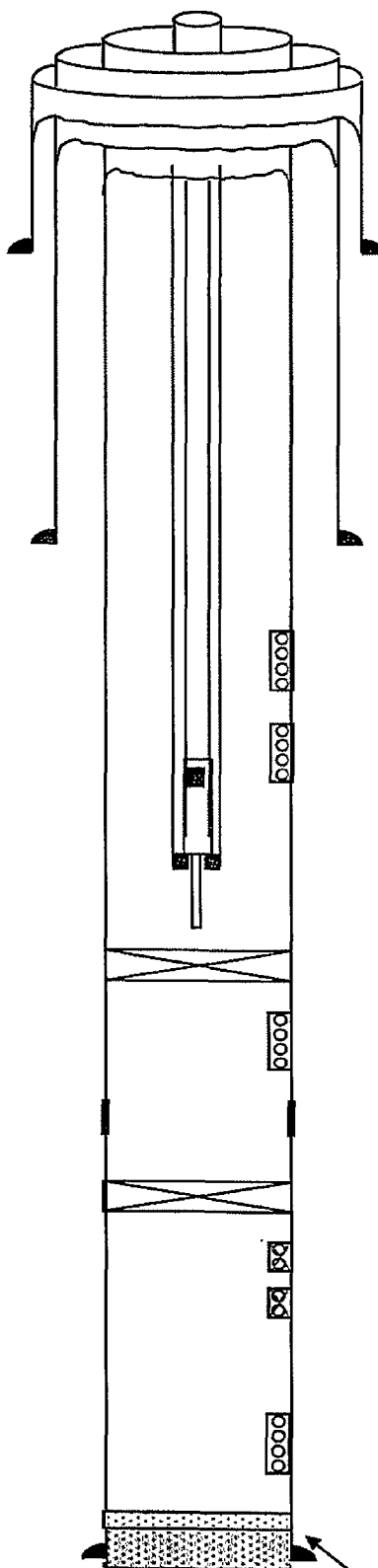
1 1/2"x26' polish rod
1 1/2"x1 3/4"x16' liner
7/8"x8' pony
129 7/8" rods
254 3/4" rods
6 1-1/2" K-bars
1"x1' pony
2-1/2"x1-1/2"x20' RHBM
HVR rod pump

Length = 9774'

csg detail:

5-1/2" 17# P-110 0' - 3968'
5-1/2" 17# N-80 3968' - 9855'
5-1/2" 17# P-110 9855' - 13650'

5-1/2" (7-7/8" hole), 17# P-110 & N-80
@ 13650' w/ 930 sx cmt
DV tool @ 10109'
TOC 8530' (OCD Completion Form)
circ cmt off DV tool after 1st stage



Surface: 1980' FNL & 660' FWL

Sec 35, T-19-S, R-33-E

Unit Letter E

Lea County, New Mexico

Bone Spring perfs 5/2007

9274'-78', 9292'-9300' w/ 3 SPF 120 deg phasing, 36 holes

Bone Spring perfs 5/2007

9713'-9731' w/ 3 SPF 120 deg phasing, 55 holes

CBP @ 11,250'

Wolfcamp perfs 4/2007

11322'-11330', 11339'-11342', 11344'-11347',
11349'-11352' w/ 3 SPF 120 deg phasing, 55 holes

CIBP @ 13100' w/ 35' cmt

Morrow perfs 1/00 22 grm .47" entry

13,124'-13,134' 4 jspf 40 holes sqz 5/06
13,171'-13,181' 4 jspf 40 holes sqz 5/06
frac w/131,000 lbs 20/40 bauxite 1/27/00
cum prod 1/00-11/05 382 MMCF (PI Dwigths)

Morrow perfs 11/05

13,262'-13,274' (2 spf - 24 holes ?????)

TD = 13,650'

original PBTD 13511 tbg 12/99