

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

OCD-HOBBS

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1980' FNL & 660' FWL
35-19S-33E

3b. Phone No. (include area code)
972-401-3111

Unit E

5. Lease Serial No

NM-9824

6. If Indian, Allottee or Tribe Name

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

NM 70966A
Laguna Deep Unit

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

Gem; Morrow, East

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 checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input checked="" 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 checked="" 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.)

The Laguna Deep Fed Unit 5 is currently completed in the Gem; Morrow, East pool with perfs at 13262'-13274'. The well has been shut in since February 2007. Cimarex intends to re-enter, set a CIBP @ 13100' w/ 35' cmt, and perform the following operations:

Wolfcamp Test

Perf Wolfcamp 11322'-11352' 3 spf 55 holes. Treat perfs w/ 2000 gallons 15% NeFe Gas Well Acid & 80 ball sealers.

If productive, turn to sales and obtain extended flow test as a Tonto; Wolfcamp well. Then set CBP @ 11250' and move uphole to test the Bone Spring.

If unproductive, set CIBP @ 11250' w/ 35' cmt and move uphole to test the Bone Spring.

Bone Spring Test

After setting either CIBP or CBP, perf Bone Spring 9713'-9731' 3' spf 55 holes. Treat perfs w/ 1800 gal 7.5% NeFe Gas Well Acid & 80 ball sealers. If necessary, frac w/ 100000# 20/40 Versaprop with resin-coated tail-in. Install pumping equipment and obtain production test as a Teas; Bone Spring well.

DHC at a later date.

Please see attached Procedure and Plats.

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

Natalie Krueger

Signature

Title

Reg Analyst 1

Date

April 25, 2007

APPROVED

MAY 1 2007

LES BABYAK
PETROLEUM ENGINEER

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of Approval, if any, are attached. Approval of certify that the applicant holds legal or equitable title to the which would entitle the applicant to conduct operations th

Oil Conservation Division

Conditions of approval: Approval for drilling ONLY

-- CANNOT produce Downhole Commingled until

DHC is approved in Santa Fe.

states any false, fictitious or

Title 18 U.S.C. Section 1001, makes it a crime for any per fraudulent statements or representations as to any matter within its jurisdiction

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-34749	² Pool Code 59500	³ Pool Name Tonto; Wolfcamp
⁴ Property Code	⁵ Property Name Laguna Deep Federal Unit	⁶ Well Number 005
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	⁹ Elevation 3782'

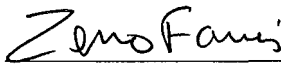
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	35	19S	33E		1980	North	660	West	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 40	¹³ Joint or Infill N	¹⁴ Consolidation Code U	¹⁵ Order No.						

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16	1980'				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i>  April 25, 2007 Signature Date Zeno Farris Printed Name
660'					¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i> Date of Survey Signature and Seal of Professional Surveyor Certificate Number
Laguna Deep Fed Unit #5					

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Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

¹ API Number 30-025-34749	² Pool Code 58960	³ Pool Name Teas; Bone Spring
⁴ Property Code	⁵ Property Name Laguna Deep Federal Unit	
⁷ OGRID No. 162683	⁸ Operator Name Cimarex Energy Co. of Colorado	⁶ Well Number 005
		⁹ Elevation 3782'

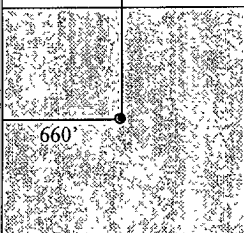
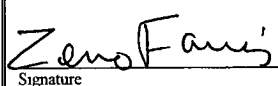
¹⁰ Surface Location

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E	35	19S	33E		1980	North	660	West	Lea

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¹² Dedicated Acres 40	¹³ Joint or Infill N	¹⁴ Consolidation Code U		¹⁵ Order No.					

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶ 1980'  660'					¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division</i>  April 25, 2007 Signature Date Zeno Farris Printed Name
	Laguna Deep Fed Unit #5				
				¹⁸ SURVEYOR CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief</i> Date of Survey Signature and Seal of Professional Surveyor Certificate Number	

**LAGUNA DEEP UNIT FEDERAL #5
WOLFCAMP / 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: 2-3/8" L-80? (405 JOINTS), 2-3/8" SN, AND 2-3/8" NC AT 13,166'
ID=1.995", DRIFT=1.901", BURST=11200 PSI, CAPACITY=0.1624 GAL/LF
PERFS: 13,262-274' (24 HOLES); 13,171-181' (SQUEEZED); 13,124-134' (SQUEEZED)

NOTE: ALL WIRELINE WORK CORRELATED TO SCHLUMBERGER USIT LOG 1/5/2000.

WOLFCAMP TEST

1. MIRU PU. KILL TUBING AND CASING WITH 7% KCL WATER IF NECECCARY. ND TREE AND NU BOP. TOH WITH 2-3/8" TUBING.
2. MIRU WIRELINE. RIH WITH 4.5" GR/JB TO 13100'. POH. RIH WITH CIBP AND SET AT 13,100'. LOAD HOLE WITH 7% KCL WATER AND TEST PLUG TO 1000 PSI. IF PLUG HOLDS, BLEED OFF PRESSURE AND RIH WITH DUMP BAILER. DUMP 35' OF CEMENT ON TOP OF CIBP AT 13,100'.
3. PERFORATE **WOLFCAMP FROM 11,322'-330', 11,339'-342', 11,344'-347' AND 11,349'-352'** (3 SPF, 120 DEG PHASING, 55 HOLES). MONITOR FLUID LEVEL IN AND OUT OF HOLE. RDMO WIRELINE.
4. PICK UP AND TIH W/ ONE JOINT OF TAILPIPE, AS-1X PACKER AND 2-3/8" L-80 TUBING STRING TO 11,200'. PICKLE TUBING WITH 500 GALLONS DOUBLE INHIBITED 15% HCL ACID FLUSHED WITH 31 BARRELS 7% KCL WATER. REVERSE OUT WITH 43 BARRELS 7% KCL WATER.
5. LOWER TAILPIPE TO 11,352'. SPOT 2 BARRELS ACID ACROSS WOLFCAMP PERFORATIONS. MOVE PACKER UPHOLE TO 11,210'. SET PACKER. OPEN PACKER BYPASS AND SPOT ACID TO BOTTOM OF TUBING. CLOSE BYPASS. PRESSURE BACKSIDE TO 500 PSI THROUGHOUT JOB. TREAT WOLFCAMP PERFS FROM 11,322'-352' USING 2,000 GALLONS 15% NEFE ACID AND 80 BALL SEALERS. MAX TREATING PRESSURE OF 9000 PSI. FLUSH WITH 46 BARRELS SLICK WATER. FLOW/SWAB BACK ACID LOAD.
6. EVALUATE FLOW/SWAB DATA. IF WELL WILL FLOW FROM WOLFCAMP, BEGIN PRODUCING FROM WOLFCAMP AND OBTAIN EXTENDED FLOW TEST. OTHERWISE, MOVE UPHOLE TO COMPLETE IN BONE SPRING WITH FUTURE POSSIBILITY OF DOWNHOLE COMMINGLING OF WOLFCAMP AND BONE SPRING.

BONE SPRING ADDITION

7. KILL TUBING WITH 7% KCL. RELEASE PACKER AND TOH WITH TUBING AND PACKER.
8. MIRU WIRELINE. RIH WITH COMPOSITE PLUG (OR CAST IRON BRIDGE PLUG W/ 35' CEMENT IF WOLFCAMP NOT PRODUCTIVE) AND SET AT 11,250'. LOAD HOLE AND TEST PLUG TO 1000 PSI. PERFORATE 2ND BONE SPRING SAND FROM **9713-31'** (3 SPF, 120 DEG PHASING, 55 HOLES). MONITOR FLUID LEVEL IN AND OUT OF HOLE. RDMO WIRELINE.
9. TIH WITH TREATING PACKER ON TUBING TO 9660'. BREAKDOWN PERFORATIONS USING 1800 GALLONS 7.5% NEFE GAS WELL BLEND HCL AND 80 BALL SEALERS. RECORD 1 SECOND DATA FOR 1 HOUR FOLLOWING ACID JOB AND FACTOR RESULTS INTO FRAC DECISION. SWAB BACK LOAD. IF >500' ENTRY AND >20% OIL CUT THE NEXT MORNING, PROCEED WITH FRACTURE STIMULATION IN STEP 10. OTHERWISE, DISCUSS NEXT STEPS WITH ENGINEERING.
10. TOH WITH PACKER AND TUBING. RIG UP CASING SAVER AND FLOWBACK MANIFOLD. FRACTURE STIMULATE WITH 100K# 20/40 VERSAPROP WITH RESIN COATED TAIL-IN. INCLUDE SCALE INHIBITOR IN FRAC FLUIDS. FLOWBACK UNTIL WELL DIES. TAG FOR SAND FILL AND CLEANOUT IF NECESSARY.
11. INSTALL PUMPING EQUIPMENT AND OBTAIN PRODUCTION TEST FROM 2ND BONE SPRING PAY. IF UNACCEPTABLE RATE, PROCEED UPHOLE TO ADD 1ST BONE SPRING PAY INTERVALS. NOTE THAT POTENTIAL PAY FROM 9388-9408' TESTED 5% OIL IN LAGUNA #1. IF 2ND BSS AND OR WOLFCAMP PRODUCTIVE BELOW, IT IS RECOMMENDED AGAINST TESTING 9388-9408'. OTHERWISE, PERF THIS INTERVAL WITH 1ST BSS AND GET ISOLATED TEST TO DETERMINE INFLOW AND CUT.

LAGUNA-3 0000