

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUN 23 2008

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

~~OCD-HOBBS~~  
~~HOBBS~~  
SUNDRY NOTICES AND REPORTS ON WEBS  
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  
600 N. Marienfeld St., Ste. 600; Midland, TX 79701
- 3b. Phone No (include area code)  
432-571-7800
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
990 FSL & 990 FEL  
20-19S-32E ✓

5. Lease Serial No  
LC-065710-A
6. If Indian, Allottee or Tribe Name
7. If Unit or CA/Agreement, Name and/or No.  
Nm 94514X ✓  
Lusk West Delaware Unit
8. Well Name and No.  
Lusk West Delaware Unit No. 016 ✓
9. API Well No  
30-025-34031 ✓
10. Field and Pool, or Exploratory Area  
Lusk; Delaware, West ✓
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 checked="" type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other RC to Yates
	<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 recompletable 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 recompletable 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 TA. Delaware perms 6488-6498' are under CIBP @ 6390' w/ 35' cmt. Cimarex proposes to recompletable to Yates as shown below and on the attached procedure and plat. Additional plugs will be addressed at final abandonment.

- Punch 4 squeeze holes @ 2900' and squeeze up backside so TOC is 2100.' DO cement and test hole to 500#.
- Perf Yates 2780-2803, 2740-2759, 2705-2725, 2657-2680, 2623-2652 (228 holes, 2 spf). Set RBP @ 2900' and acidize Lower Yates with 1500 gal 10% NeFe acid with ball diverters. Set RBP @ 2770' and acidize Middle Yates with 2500 gal 10% NeFe acid with ball diverters. Set RBP @ 2695' and acidize Upper Yates with 3000 gal 10% NeFe acid and ball diverters.
- Install tubing and rod pump and turn to production. If not productive, plugging procedure will be submitted in a separate sundry.

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

Natalie Krueger  
Signature

Title  
Regulatory  
Date  
June 2, 2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

PETROLEUM ENGINEER

APPROVED

JUN 23 2010

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

/s/ Roger Hall  
JUN 18 2010

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

Petroleum Engineer  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

(Instructions on reverse)

## WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC		1993	LEASE NAME	LWDU	Well # 16 Formally Know as Lusk Deep 21A	API# 30-025-34031	LEASE #NM LCO 065710A
<p>GL 3,578'</p> <p>13 3/8" 54.5 # w/ 675 sx cmt C set at 856'</p> <p>DV Tool at 2005'</p> <p>5.5" DV Tool @ 3128' 2nd stage cmt w/ 925 sxs circ 112 sxs to pit</p> <p>8 5/8" 32&amp; 24# w. 785 sx cmt C set at 3569 TOC 3470'</p> <p>Cherry Canyon 4406'</p> <p>CIBP @ 6390' w/ 35' cmt on top</p> <p>Perfd 6488' 98' (2 JSPF)</p> <p>5 1/2" 15.5# set at 6600 1st stage cmt 5.5" csg 785 sxs</p> <p>6543' PBD 6600' TD</p>	TYPE COMPLETION:	TA'd	SINGLE		DUAL		
	LOCATION:		990' FSL & 990' FEL , Lea County, NM				
	TD	6,600'	PBD	6,355 CIPB w/cmt		KB	3,594'
	COD		DOD			GL	3,578'
	NO. PROD. WELLS ON LEASE		FLOWING		PUMPING		
	ZONE TO BE WORKED ON:					CURRENT COMPLETION ZONE:	
	CSG. PERFS:					Delaware	
	Perfd 6488' 98' (2 JSPF)					OPEN HOLE :	
	CURRENT TEST (SHOW DATE)						
			GAS		OIL		
		GAS		OIL			
Casing Breakdown							
SURF.	17 1/2" hole	SIZE:	13 3/8" 54.5 #	w/ 675 sx cmt C	TOC @ Surf	DEPTH @ 856	
INTER.	12 1/4" hole	SIZE:	8 5/8" 32& 24#	w. 785 sx cmt C	TOC @ surf	DEPTH @ 3569'	
PROD.	7 7/8" hole	SIZE:	5 1/2" 15.5#	cmt. W. 1710 sx C	TOC @ surf	DEPTH @ 6600'	
Tubing breakdown							
TBG:		SIZE:				DEPTH	
TBG:		SIZE:				DEPTH	
WELL HISTORY							
Water Flood: Case#: 11074 Order#: R-10863 Max Approved WHIP: 1280 psi							
05/05/98	Perfd 6488'-6498 5 holes, 2 SPF. Acidized 1500 gals, 25% NEFE HCL pumped 550 gal med 300 pad@ 10 BPM @ 2195 PSI Pumped 4600 Gal Med 3000 w/ 23000 # 16 90 Ottawa sand Pumped 275 gal Med 3000 w/ 2000# sand 7 6 ppg got 25380# sand in formation						
03/01/01	TIH w/ rods and tubing						
04/16/03	CIBP and set at 6390' w/ 35' cmt on top TA approved (ends 5/13/05)						

DISTRICT I  
P.O. Box 1060, Hobbs, NM 88241-1060

RECEIVED

State of New Mexico

Energy, Minerals and Natural Resources Dept

DISTRICT II  
P.O. Drawer 88, Artesia, NM 88211-0718

JUN 23 2008

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

HOBBS CO

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT IV  
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

Form C-102  
Revised February 10, 1994  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-34031	Pool Code 41750	Pool Name Lusk; Yates, E
Property Code 29810	Property Name Lusk West Delaware Unit	Well Number 016
OGRID No. 162683	Operator Name Cimarex Energy Co. of Colorado	Elevation 3575

Surface Location

UL or lot No. P	Section 20	Township 19 S	Range 32 E	Lot Idn	Feet from the 990	North/South line SOUTH	Feet from the 990	East/West line EAST	County LEA
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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
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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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

				<b>OPERATOR CERTIFICATION</b>	
				<p>I hereby certify the the information contained herein to true and complete to the best of my knowledge and belief.</p> <p><i>Zeno Farris</i> Signature</p> <p>Zeno Farris Printed Name</p> <p>Mgr Operations Admin Title</p> <p>6/2/2010 Date</p>	
				<b>SURVEYOR CERTIFICATION</b>	
				<p>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.</p> <p>JAN 30, 1997</p> <p>Date Surveyed</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p>LC-065710-A 990' 990'</p> <p>DMCC</p> <p>07-97</p> <p>07-11-01</p> <p>Certificate No. JOHN W. WEST 676 RONALD J. EIDSON 3239 PROFESSIONAL SURVEYOR EIDSON 12641</p>	

## RECOMPLETION PROCEDURE

LWDU #16

(Formerly Lusk Deep Unit 21A)

Lusk West Delaware Field

API # 30-025-34031

990' FSL & 990' FEL

Sec 20, T-19S, R-32E

Lea County, New Mexico

GL: 3578' KB: 3594'

TD: 6600' PBD: 6355'

13<sup>3</sup>/<sub>8</sub>", 54# @ 856' W/ 675 SX CMT. TOC @ SURFACE

8<sup>5</sup>/<sub>8</sub>", 32#-24# @ 3470' W/ 785 SX CMT. DV TOOL @ 2005' TOC @ 3470'

5<sup>1</sup>/<sub>2</sub>", 15.5# @ 6600' W/ 785 SX CMT. TOC UNKNOWN

5.5" DV TOOL: W/ 925 SXS, TOC @ SURFACE, CIRC 112 SXS

NO TUBING

PERFS: 6488-6498' DELAWARE – UNDER CIBP

1. RU WIRELINE. TEST HOLE TO 500#. RIH W/ 4.5" OD GR/JB TO 6365'. POOH W/ GR/JB.
2. DELIVER WORKSTRING, CVD. MIRU PU.
3. PUNCH 4 SQZ HOLES @ 2900' AND SQUEEZE UP BACKSIDE SO TOC IS 2100', NOTE RATES AND CIRCULATION. REFER TO SERVICE COMPANY FOR RECOMMENDED VOLUMES AND CMT.
4. MU BIT AND DC ON WORKSTRING AND DRILL OUT CEMENT. TEST HOLE TO 500#. POOH.
5. RU WIRELINE.. POOH. RIH W/ 3 3/8" PERF GUNS/CCL. PERFORATE YATES USING 3-3/8" CASING GUNS 2-SPF W/ PREMIUM CHARGES. POOH W/ CCL/3 3/8" PERF GUNS. RD WL.
  - 2780-2803' (23')
  - 2740-2759' (19')
  - 2705-2725' (20')
  - 2657-2680' (23')
  - 2623-2652' (29')TOTAL 114' 228 HOLES
6. RIH W/ TREATING PACKER/MECHANICAL COLLAR LOCATOR/ RBP W/ BALL CATCHER ON PRODUCTION TUBING. SET RBP @ 2900. PU AND SET PACKER @ 2770 BY MCL.
7. ACIDIZE LOWER YATES SAND WITH 1500 GAL 10% NEFE ACID AND BALL DIVERTERS.
  - NOTE ANY COMMUNICATION WITH UPPER PERFS ON THE CASING AND CONTACT MIDLAND. IF COMMUNICATION BETWEEN ALL YATES PERFS ACIDIZE W/ 5000 GALS 10% NEFE + 225 BALL SEALERS
8. UNSET PACKER, RIH AND LATCH RBP, SET RBP @ 2770. PU AND SET PACKER @ 2695.
9. ACIDIZE MIDDLE YATES SAND WITH 2500 GAL 10% NEFE ACID AND BALL DIVERTERS.
10. UNSET PACKER, RIH AND LATCH RBP, SET RBP @ 2695. PU AND SET PACKER @ 2575.
11. ACIDIZE UPPER YATES SAND WITH 3000 GAL 10% NEFE ACID AND BALL DIVERTERS.

12. LATCH RBP. POOH W/ TBG, PKR-RBP. LD WORKSTRING. DELIVER 2 7/8" PRODUCTION STRING CVD.
13. RIW W/ 2 7/8" TBG AND SWAB WELL DOWN TILL PH>4.5. NOTE INFLOW AND FLUID ENTRY. POOH.
14. RIW WITH BHA, MA ON PRODUCTION STRING, NO TAC NEEDED.
15. RIH W/ PUMP AND RODS. SPACE OUT RODS. RDMO PU.
16. HAVE CHEMICAL COMPANY RUN WATER ANALYSIS AFTER LOAD IS RECOVERED TO TREAT IF NEEDED.