

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other						5. Lease Serial No NM-30395													
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr Other _____						6. If Indian, Allottee or Tribe Name													
2. Name of Operator Cimarex Energy Co of Colorado						7. Unit or CA Agreement Name and No													
3. Address PO Box 140907, Irving, TX 75014				3a. Phone No (include area code) 972-443-6489		8. Lease Name and Well No Callaway Federal No 4													
4. Location of Well (Report Location clearly and in accordance with Federal requirements)* At surface 1980' FSL & 1310' FEL At top prod interval reported below 1980' FSL & 1310' FEL At total depth 1980' FSL & 1310' FEL						9. API Well No 30-015-34064													
14. Date Spudded 05 05 07 15. Date T D Reached 05.28 07 16. Date Completed 06 30 07 ☐ D & A ☒ Ready to Prod						10. Field and Pool, or Exploratory Diamond Mound, Morrow													
						11. Sec., T, R., M, on Block and Survey or Area 6-16S-28E													
18. Total Depth MD 9250' TVD						19. Plug Back TD MD 9132' TVD		20. Depth Bridge Plug Set MD TVD		12. County or Parish Eddy		13. State NM							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SDN, DLL						22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey ☒ No ☐ Yes (Submit copy)													
23. Casing and Liner Record (Report all strings set in well)																			
Hole Size		Size/Grade		Wt (#/ft)		Top (MD)		Bottom (MD)		Stage Cementer Depth		No of Sks & Type of Cement		Slurry Vol. (BBL)		Cement Top*		Amount Pulled	
17-1/2"		13-3/8" H-40		48		0		440'		NA		430 sx Prem Plus				0			
11"		8-5/8" J-55		24		0		1841'		NA		800 sx Int C/Prem Plus				0			
7-7/8"		4-1/2" P-110		11 6		0		9219'		NA		300 sx PB Sup H				7892'			
24. Tubing Record																			
Size		Depth Set (MD)		Packer Depth (MD)		Size		Depth Set (MD)		Packer Depth (MD)		Size		Depth Set (MD)		Packer Depth (MD)			
2-3/8"		8966'																	
25. Producing Intervals														26. Perforation Record					
Formation				Top		Bottom		Perforated Interval				Size		No. Holes		Perf Status			
A) Diamond Mound, Morrow				8,876'		8,973'		8914'-8966' 6 spf TCP Guns				0.32		205		Producing			
B)																			
C)																			
D)																			
27. Acid, Fracture, Treatment, Cement Squeeze, etc																			
Depth Interval				Amount and Type of Material															
8914'-8966'				76,276 gal foamed 35# CMHPG Water Frac 85.15 7% KCl w/ Methanol, CO2, & 131,260# 20/40 Versaprop															
28. Production - Interval A																			
Date First Produced		Test Date		Hours Tested		Test Production		Oil BBL		Gas MCF		Water BBL		Oil Gravity Corr API		Gas Gravity		Production Method	
06 30 07		07.21 07		24		→		0		197		0				1 032		Flowing	
Choke Size		Tbg Press Flwg		Csg Press		24 Hr Rate		Oil BBL		Gas MCF		Water BBL		Gas/Oil Ratio		Well Status			
42/64		SI 60		150		→										Flowing			
28. Production - Interval B																			
Date First Produced		Test Date		Hours Tested		Test Production		Oil BBL		Gas MCF		Water BBL		Oil Gravity Corr API		Gas Gravity		Production Method	
						→													
Choke Size		Tbg Press Flwg		Csg Press		24 Hr Rate		Oil BBL		Gas MCF		Water BBL		Gas/Oil Ratio		Well Status			
		SI				→													

* (See instructions and spaces for additional data on page 2)

28b Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29 Disposition of Gas (*Sold, used for fuel, vented, etc*)

Sold

30 Summary of Porous Zones (Include Aquifers)

Show all important zones of porosity and contents thereof Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top Meas Depth
				San Andres	1,720'
				Abo Shale	5,155'
				Wolfcamp	6,405'
				Strawn	8,490'
				Atoka	8,696'
				Morrow	8,876'
				Mississippian	8,974'

32 Additional remarks (include plugging procedure)

33 Indicate which items have been attached by placing a check in the appropriate boxes

- ☒ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (*please print*) Natalie Krueger Title Reg Analyst 1

Signature Natalie Krueger Date August 21, 2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1501 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 87506

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 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

API Number 30-015-34064	Pool Code 76079	Pool Name Diamond Mound; Morrow
Property Code 300577	Property Name CALLOWAY FEDERAL	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3588'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	16 S	28 E		1980	SOUTH	1310	EAST	EDDY

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
Dedicated Acres 322.55	Joint or Infill N	Consolidation Code	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

LOT 12		LOT 12
LOT 13		LOT 13
LOT 14	Lot - N32°57'01.9" Long - W104°12'37.8" NMSPCE - N 709553.063 E 579018.126 (NAD-83)	LOT 15

Calloway Fed #4

3580.6' 3594.2'

3585.3' 3598.4'

1310'

1980'

OPERATOR CERTIFICATION

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 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.

Zeno Farris 08-14-07
Signature Date

Zeno Farris
Printed Name

SURVEYOR CERTIFICATION

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.

JANUARY 30, 2007

Date Surveyed

Gary L. Jones
Signature

Professional Surveyor

Certificate No. Gary L. Jones 7977

BASIN SURVEYS



CACTUS DRILLING COMPANY, L.L.C.
REPORT OF PROOF OF APPARENT DEVIATION
NEW MEXICO

OPERATOR CIMAREX ENERGY CO OF COLORADO
5215 N O'CONNOR BLVD
IRVING, TX 75039

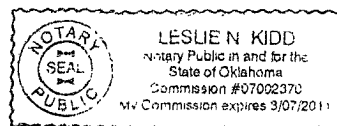
FIELD NAME _____

COUNTY/PARISH EDDY

WELL NAME & NO. CALLOWAY 6 FED #4

LEGAL SEC 6-16S-28E

MEASURED DEPTH (FT)	COURSE LENGTH (HUNDREDS OF FT)	ANGLE OF INCLINATION (DEGREES)	DISPLACEMENT PER HUNDRED FT (SINE OF ANGLE X 100)	COURSE DISPLACEMENT (FEET)	ACCUMULATIVE DISPLACEMENT (FEET)	REMARKS
225	2.25	5/8	1.0821	2.43	2.43	
710	4.85	1 1/4	2.1815	10.58	13.01	
1113	4.03	1/4	0.4363	1.76	14.77	
1495	3.82	4/7	1.0123	3.87	18.64	
2115	6.20	2/5	0.6981	4.33	22.97	
2460	3.45	1/2	0.8727	3.01	25.98	
2777	3.17	1/2	0.8727	2.77	28.75	
3154	3.77	1	1.7452	6.58	35.33	
3504	3.50	1/2	0.8727	3.05	38.38	
3822	3.18	1/2	0.8727	2.78	41.15	
4172	3.50	2	3.4899	12.21	53.37	
4340	1.68	2	3.4899	5.86	59.23	
4457	1.17	2 1/2	4.3619	5.10	64.34	
4917	4.60	2	3.4899	16.05	80.39	
5401	4.84	2 1/3	4.0829	19.76	100.15	
5666	2.65	3	5.1290	13.59	113.74	
6048	3.82	4 1/6	7.2716	27.78	141.52	
6238	1.90	2 8/9	5.0593	9.61	151.13	
6507	2.69	2 4/5	4.8850	13.14	164.27	
6664	1.57	2 2/7	4.0132	6.30	170.57	
7016	3.52	8/9	1.5707	5.53	176.10	
7200	1.84	-1 2/5	2.4432	4.50	180.60	
7398	1.98	1	1.7452	3.46	184.05	
7730	3.32	2	3.4899	11.59	195.64	
8030	3.00	3/5	1.0472	3.14	198.78	
8637	6.07	2	3.4899	21.18	219.97	



Leslie N. Kidd
6-25-07