

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		6 If Indian, Allottee or Tribe Name	
b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.		7 Unit or CA Agreement Name and No	
2 Name of Operator Cimarex Energy Co of Colorado		8 Lease Name and Well No Callaway Federal No 4	
3 Address PO Box 140907; Irving, TX 75014		9 API Well No 30-015-34064	
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		10 Field and Pool, or Exploratory Diamond Mound, Morrow	
14 Date Spudded 05.05 07		15 Date T D Reached 05 28 07	
16 Date Completed ☐ D & A ☒ Ready to Prod		17 Elevations (DF, RKB, RT, GL)* 3588' GR	
18 Total Depth MD 9250' TVD		19 Plug Back TD: MD 9132' TVD	
20 Depth Bridge Plug Set MD TVD		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)	
24 Tubing Record		25 Producing Intervals	
26 Perforation Record		27 Acid, Fracture, Treatment, Cement Squeeze, etc	
28 Production - Interval A		28 Production - Interval B	

AUG 27 2007
OCD-ARTESIA

ACCEPTED FOR RECORD
AUG 23 2007
JERRY FANT
PETROLEUM GEOLOGIST

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

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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 Brasos Rd., Antec, 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

AUG 27 2007
OCD-ARTESIA
☐ 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 1/4 COR.		LOT 13 1/4 COR.	
LOT 14		LOT 14	
LOT 15		LOT 15	
Lot - N32°57'01.9" Long - W104°12'37.8" NMSPCE - N 709553.063 E 579018.126 (NAD-83)		Calloway Fed #4 3580.6' 3594.2' 1310' 3585.3' 3598.4' 1980'	
NM-30395			
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 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> Zeno Farris 08-14-07 Signature Date Zeno Farris Printed Name			
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> JANUARY 30, 2007 Date Surveyed Signature & Seal Gary L. Jones Professional Surveyor 7977 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