

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-HOBBS

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
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

2. Name of Operator
Cimarex Energy Co. of Colorado ✓3. Address
PO Box 140907; Irving, TX 750143a. Phone No. (include area code)
972-443-6489

4. Location of Well (Report Location clearly and in accordance with Federal requirements)

At surface

700' FSL & 1165' FEL ✓

At top prod. interval reported below

At total depth

14. Date Spudded
08.25.0715. Date T.D. Reached
10.01.0716. Date Completed 11.04.07
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)*
3661' GR18. Total Depth: MD 13,725'
TVD19. Plug Back TD. MD 13,069'
TVD20. Depth Bridge Plug Set. MD 13,104'
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

22. Was well cored? ☒ No ☐ Yes (Submit analysis)Was DST run? ☒ No ☐ Yes (Submit report)Directional Survey ☒ No ☐ Yes (Submit copy)

Porosity, Resistivity

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17-1/2	13-3/8 H-40	48	0	1,537'		1150 sx Premium Plus		0'	
12-1/4	9-5/8" NS-110	40	0	5,005'		2250 sx IntC/Premium Plus		0'	
8-3/4	5-1/2" P-110	17	0	13,721'		1850 sx IntH/PBSH		2760' (CBL)	

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"	12,200'	12,200'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	12,961'	13,482'	13202'-13266'	0.42	117	CIBP @ 13104' w/ 35' cmt
B) Strawn	12,170'	12,459'	12246'-12284'	0.42	228	Producing
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
12246'-12284'	12000 gal Pre-Pad, 20000 gal 25# Borate Pad, 44000 gal 25# Borate 20/40 Bauxite Prop, 11950 gal 20# Linear Flush

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
11.04.07	11.10.07	24	→	22	16	0	44	0.733	Flowing
Choke Size	Tbg Press Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
open	SI 1890	200	→				727	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)

ACCEPTED FOR RECORD

FEB 5 2008

JERRY FANT
PETROLEUM GEOLOGIST

KE

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
				Yates	3,405'
				Base Yates Carb	3,645'
				Yates Sand	3,689'
				7 Rivers	3,778'
				Queen	4,438'
				Cherry Canyon	6,195'
				BSPG	8,022'
				FBSS	9,313'
				SBSC	9,620'
				SBSS	9,822'
				TBSC	10,282'
				TBSS	10,608'
				Wolfcamp	10,880'
				Strawn	12,170'
				Atoka	12,460'
				Morrow	12,961'
				Morrow Clastics	13,057'
				Lower Morrow	13,483'
				Barnett	13,600'

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
 Signature Natalie Krueger Date January 25, 2008

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
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 87506

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-38388	Pool Code 96244	Pool Name Gem; Strawn
Property Code	Property Name AFTON "24" FEDERAL COM	Well Number 1
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3661'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	24	19 S	33 E		700	SOUTH	1165	EAST	LEA

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 40	Joint or Infill	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

Lat - N32°38'25.2" Long - W103°36'42.8" NMSPCE - N 597439.346 E 763410.714 (NAD-83)	3658.2' 3663.6' 1165' 3655.0' 3658.0'	Afton 24 Fed Com #1	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. <u>Zeno Farris</u> 01-17-08 Signature Date <u>Zeno Farris</u> 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. FEBRUARY 10, 2007 Date Surveyed <u>GARY L. JONES</u> Signature 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

30-025-38388

OPERATOR CIMAREX CO OF COLORADO

FIELD NAME

5215 NORTH O'CONNOR BLVE
IRVING, TX 75039

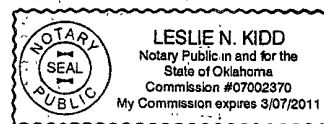
COUNTY/PARISH LEA

WELL NAME & NO. AFTON 24 FED #1

LEGAL SEC 24-19S-33E

Unit P
700/s + 1165/E

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
270	2.70	1 4/9	2.5130	6.79	6.79	
701	4.31	1/7	0.2442	1.05	7.84	
1198	4.97	2/3	1.1170	5.55	13.39	
2117	9.19	1/2	0.8727	8.02	21.41	
2515	3.98	1/2	0.8727	3.47	24.88	
2985	4.70	2 1/2	4.3619	20.50	45.38	
3207	2.22	1 1/2	2.6177	5.81	51.19	
3360	1.53	1/2	0.8727	1.34	52.53	
3732	3.72	1/2	0.8727	3.25	55.78	
4205	4.73	1/2	0.8727	4.13	59.90	
4669	4.64	1/2	0.8727	4.05	63.95	
4970	3.01	1/2	0.8727	2.63	66.58	
5249	2.79	1/2	0.8727	2.43	69.01	
5398	1.49	1/2	0.8727	1.30	70.31	
5644	2.46	1/2	0.8727	2.15	72.46	
6707	10.63	1/2	0.8727	9.28	81.74	
7248	5.41	1/2	0.8727	4.72	86.46	
7805	5.57	1/2	0.8727	4.86	91.32	
8310	5.05	1/2	0.8727	4.41	95.73	
8872	5.62	1	1.7452	9.81	105.53	
9312	4.40	1/2	0.8727	3.84	109.37	
9681	3.69	1/2	0.8727	3.22	112.59	
10027	3.46	1/2	0.8727	3.02	115.61	
10345	3.18	1/2	0.8727	2.78	118.39	
10751	4.06	1/2	0.8727	3.54	121.93	
10943	1.92	1	1.7452	3.35	125.28	
11195	2.52	1 1/2	2.6177	6.60	131.88	
11385	1.90	1	1.7452	3.32	135.20	
11610	2.25	3/4	1.3090	2.95	138.14	
11863	2.53	1	1.7452	4.42	142.56	
12115	2.52	1/2	0.8727	2.20	144.75	
12402	2.87	1/2	0.8727	2.50	147.26	
12941	5.39	1/2	0.8727	4.70	151.96	
13504	5.63	1/2	0.8727	4.91	156.88	



Leslie N. Kidd
1-21-08