

RECEIVED
SEP 22 2010
HOBBSOCD**New Mexico Oil Conservation Division, District I**
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1625 N. French Drive
Hobbs, NM 88240FORM 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. LC-064900	
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. ending NM-124724	
3 Address 600 N. Marienfeld St., Ste. 600; Midland, TX 79701		8 Lease Name and Well No. Franklin 18 Federal Com No. 4H	
3a Phone No (include area code) 432-571-7800		9. API Well No. 30-005-29090 0051	
4. Location of Well (Report Location clearly and in accordance with Federal requirements)* At surface 375 FSL & 375 FEL At top prod interval reported below 366 FSL & 353 FEL At total depth 330 FNL & 395 FEL		10 Field and Pool, or Exploratory Abo Wildcat	
14. Date Spudded 04.01.10		15. Date T D Reached 04.16.10 05.01.10	
16. Date Completed ☐ D & A ☒ Ready to Prod		17. Elevations (DF, RKB, RT, GL)* 4431' GR	
18. Total Depth. MD 13177' TVD 8692'		19. Plug Back TD: MD 13177' TVD 8692'	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) SDL, DLL, MGRD, DSN	
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 Cement Depth	No of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17½"	13½"	48	0'	380'		200 sx Extendacem, HalcemC		0' (1" w/ 185 sx)	
8¾"	7"	26	0'	8368'		1760 sx Econocem, HalcemH		0'	
8¾"	2½"	2.18	8368'	8835'					
6½"	4½"	11.6	8220'	8799'	BTC	no cement			
6½"	4½"	11.6	8799'	12915'	LTC	no cement			

24 Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2½"	8115'							

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf. Status
A) Abo	8460'	13177'	no perms...PEAK completion liner with 9-stage frac job			
B)						
C)						
D)						

26 Perforation Record

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
	Please see attachment.

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 BTU	Production Method
06.09.10	06.12.10	24	→	86	98	17	38.2	1.219	Pumping
Choke Size	Tbg Press Flwg	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
open	SITP 250	100	→				1,140	Producing	

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	
			→						

ACCEPTED FOR RECORD

/S/ DAVID R. GLASS

SEP 15 2010

DAVID R. GLASS
PETROLEUM ENGINEER

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

PETROLEUM ENGINEER

OCT 14 2010

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):				31. Formation (Log) Markers	
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					
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				Abo	8558'
				B. Anhydrite	8667'
				Hueco Wolfcamp	8762'

32. Additional remarks (include plugging procedure):

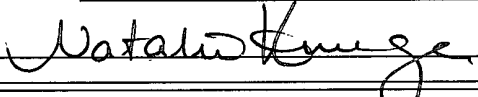
06.04.10 Installed Baker Hughes Centrilift 4" 95 HP 238 Stage Sub-Pump Assembly

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: PEAK Systems Drawing, Frac Details, Deviation Report	

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 Regulatory Analyst

Signature  Date August 25, 2010

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

Franklin 18 Federal Com No. 4

18-15S-31E

Chaves County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 12672-13177	196874 gal slickwater with 145804# 20/40 white sand
Stage 2 12110-12672	176200 gal slickwater with 150557# 20/40 white sand
Stage 3 11586-12110	191624 gal slickwater with 149562# 20/40 white sand
Stage 4 11070-11586	123570 gal slickwater with 57261# 20/40 white sand
Stage 5 10549-11070	187905 gal slickwater with 153116# 20/40 white sand
Stage 6 10034-10549	163835 gal slickwater with 96448# 20/40 white sand
Stage 7 9492-10034	187740 gal slickwater with 136128# 20/40 white sand
Stage 8 8993-9492	211260 gal slickwater with 155108# 20/40 white sand
Stage 9 8460-8993	171404 gal slickwater with 154561# 20/40 white sand

KOP @ 8460' FT

End of Curve @ 9152'
4 1/2" LTC x 1/2" BTC Cross Over
3.656" Frac Port
Depth @ 8798'
Open with 2051 psi
3.750" Frac Ball

#8 Predator Packer
Depth @ 8993'
Set with 1892 psi

3.531" Frac Port
Depth @ 9178'
Open with 2051 psi
3.625" Frac Ball

#7 Predator Packer
Depth @ 9492'
Set with 1892 psi

3.406" Frac Port
Depth @ 9800'
Open with 2051 psi
3.500" Frac Ball

#6 Predator Packer
Depth @ 10034'
Set with 1892 psi

3.281" Frac Port
Depth @ 10309'
Open with 2051 psi
3.375" Frac Ball

#5 Predator Packer
Depth @ 10549'
Set with 1892 psi

3.156" Frac Port
Depth @ 10878'
Open with 2051 psi
3.250" Frac Ball

#4 Predator Packer
Depth @ 11070'
Set with 1892 psi

3.031" Frac Port
Depth @ 11307'
Open with 2051 psi
3.125" Frac Ball

#3 Predator Packer
Depth @ 11586'
Set with 1892 psi

2.906" Frac Port
Depth @ 11869'
Open with 2051 psi
3.000" Frac Ball

#2 Predator Packer
Depth @ 12110'
Set with 1892 psi

2.781" Frac Port
Depth @ 12392'
Open with 2051 psi
2.875" Frac Ball

#1 Predator Packer
Depth @ 12672'
Set with 1892 psi

Hydro-Pak Anchor
Depth @ 12823'
Set with 1892 psi

Pump Out Plug
Depth @ 12915'
Open at 4576 psi

End of Casing @ 8368'		Bottom of SMP-X Hanger @ 8220'				
DOWN HOLE WELL PROFILE						
WELL NAME Cimarex Energy Company, Franklin 18 Fed Com #4H		DATE 5/2/10				
SUPERVISOR Billy Martin		TOOL HAND Ray Lollar				
PHONE # 432-967-6620		PHONE # 432-425-2193				
RIG # Patriot Drilling, Rig #4		FIELD TICKET # 5805				
ELEVATIONS						
KB ELEV	GL ELEV	KB TO THF	KB TO SCF	RIG KBD	PBTD	
				19		
CASING / OPEN HOLE LAYOUT		OD (IN)	LANDED DEPTH	WEIGHT (LB/FT)	TOP OF (FTKB)	
CASING DESCRIPTION		7	8368'	26		
WINDOW DESCRIPTION						
OPEN HOLE DESCRIPTION		6 1/8	13177'	JUNCTION @	8460'	
		Liner & Tool Placement Schematic				
Pump Out Plug Pinned to Open at 4576 psi						
DOWNHOLE DESCRIPTION FROM BOTTOM UP (Liner String)						
BOTTOM @	DESCRIPTION			LENGTH	ID	OD
12915.00	Peak 3 1/2 Pump Out Plug (3.0" ID When pumped out)			0.81	0.75	4.50
12914.19	3 1/2 8 rd Pin x 4 1/2 LTC Box Cross Over			1.01	2.99	5.00
12913.18	2 Joint 4 1/2 LTC, P-110, 11.6# Liner (1-2)			87.36	4.00	4.50
12825.82	4 1/2 x 2' P-110, 11.6# Liner Sub			2.11	4.00	4.50
12823.71	7 x 4 1/2 Peak Rotating Centralizer			0.62	4.00	5.88
12823.09	7 x 4 1/2 Peak Extreme Service Open Hole SS Hydra-Pak Anchor			3.90	4.00	5.88
12819.19	4 1/2 x 6' P-110, 11.6# Liner Sub			6.09	4.00	4.50
12813.10	3 Joints 4 1/2 LTC, P-110, 11.6# Liner (3-5)			138.17	4.00	4.50
12674.93	4 1/2 x 2' P-110, 11.6# Liner Sub			2.10	4.00	4.50
12672.83	7 x 4 1/2 Peak Rotating Centralizer			0.62	4.00	5.88
12672.21	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			3.43	4.00	5.69
12668.78	4 1/2 x 6' P-110, 11.6# Liner Sub			6.63	4.00	4.50
12662.15	6 Joints 4 1/2 LTC, P-110, 11.6# Liner (6-11)			269.59	4.00	4.50
12392.56	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 2.781" Seat (Open with 2.875"			3.55	2.78	5.88
12389.01	6 Joints 4 1/2 LTC, P-110, 11.6# Liner (12-17)			276.04	4.00	4.50
12112.97	4 1/2 x 2' P-110, 11.6# Liner Sub			2.13	4.00	4.50
12110.84	7 x 4 1/2 Peak Rotating Centralizer			0.63	4.00	5.88
12110.21	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			3.47	4.00	5.69
12106.74	4 1/2 x 6' P-110, 11.6# Liner Sub			6.68	4.00	4.50
12100.06	5 Joints 4 1/2 LTC, P-110, 11.6# Liner (18-22)			230.11	4.00	4.50
11869.95	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 2.906" Seat (Open with 3.000"			3.55	2.91	5.88
11866.40	6 Joints 4 1/2 LTC, P-110, 11.6# Liner (23-28)			276.83	4.00	4.50
11589.57	4 1/2 x 2' P-110, 11.6# Liner Sub			2.11	4.00	4.50
11587.46	7 x 4 1/2 Peak Rotating Centralizer			0.62	4.00	5.88
11586.84	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			3.46	4.00	5.69
11583.38	4 1/2 x 6' P-110, 11.6# Liner Sub			6.63	4.00	4.50
11576.75	6 Joints 4 1/2 LTC, P-110, 11.6# Liner (29-34)			268.95	4.00	4.50
11307.80	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 3.031" Seat (Open with 3.125"			3.55	3.03	5.88
11304.25	5 Joints 4 1/2 LTC, P-110, 11.6# Liner (35-39)			230.73	4.00	4.50
11073.52	4 1/2 x 2' P-110, 11.6# Liner Sub			2.08	4.00	4.50
11071.44	7 x 4 1/2 Peak Rotating Centralizer			0.62	4.00	5.88
11070.82	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			3.45	4.00	5.69
11067.37	4 1/2 x 6' P-110, 11.6# Liner Sub			6.65	4.00	4.50
11060.72	4 Joints 4 1/2 LTC, P-110, 11.6# Liner (40-43)			181.79	4.00	4.50
10878.93	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 3.156" Seat (Open with 3.250"			3.55	3.16	5.88
10875.38	7 Joints 4 1/2 LTC, P-110, 11.6# Liner (44-50)			323.54	4.00	4.50
10551.84	4 1/2 x 2' P-110, 11.6# Liner Sub			2.11	4.00	4.50
10549.73	7 x 4 1/2 Peak Rotating Centralizer			0.59	4.00	5.88
10549.14	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			3.46	4.00	5.69
10545.68	4 1/2 x 6' P-110, 11.6# Liner Sub			6.65	4.00	4.50
10539.03	5 Joints 4 1/2 LTC, P-110, 11.6# Liner (51-55)			229.91	4.00	4.50
10309.12	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 3.281" Seat (Open with 3.375"			3.55	3.28	5.88
10305.57	6 Joints 4 1/2 LTC, P-110, 11.6# Liner (56-61)			268.81	4.00	4.50
10036.76	4 1/2 x 2' P-110, 11.6# Liner Sub			2.08	4.00	4.50
10034.68	7 x 4 1/2 Peak Rotating Centralizer			0.61	4.00	5.88
10034.07	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			3.48	4.00	5.69
10030.59	4 1/2 x 6' P-110, 11.6# Liner Sub			6.70	4.00	4.50
10023.89	5 Joints 4 1/2 LTC, P-110, 11.6# Liner (61-66)			223.85	4.00	4.50
9800.04	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 3.406" Seat (Open with 3.500"			3.55	3.41	5.88
9796.49	7 Joints 4 1/2 LTC, P-110, 11.6# Liner (67-73)			301.09	4.00	4.50
9495.40	4 1/2 x 2' P-110, 11.6# Liner Sub			2.11	4.00	4.50
9493.29	7 x 4 1/2 Peak Rotating Centralizer			0.62	4.00	5.88
9492.67	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			4.45	4.00	5.69
9488.22	4 1/2 x 6' P-110, 11.6# Liner Sub			6.61	4.00	4.50
9481.61	7 Joints 4 1/2 LTC, P-110, 11.6# Liner (74-80)			303.18	4.00	4.50
9178.43	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 3.531" Seat (Open with 3.625"			3.55	3.53	5.88
9174.88	4 Joints 4 1/2 LTC, P-110, 11.6# Liner (81-84)			178.26	4.00	4.50
8996.62	4 1/2 x 2' P-110, 11.6# Liner Sub			2.11	4.00	4.50
8994.51	7 x 4 1/2 Peak Rotating Centralizer			0.62	4.00	5.88
8993.89	7 x 4 1/2 Peak Extreme Service Open Hole Predator II Packer			4.47	4.00	5.69
8989.42	4 1/2 x 6' P-110, 11.6# Liner Sub			6.65	4.00	4.50
8982.77	4 Joints 4 1/2 LTC, P-110, 11.6# Liner (85-88)			183.91	4.00	4.50
8798.86	7 x 4 1/2 Peak Gen III Stata-Port Frac Sleeve w/Drillable 3.656" Seat (Open with 3.750"			3.55	3.66	5.88
8795.31	4 1/2 LTC Pin x 4 1/2 BTC Box Cross Over			2.18	4.00	4.50
8793.13	13 Joints 4 1/2 BTC, P-110, 11.6# Liner (1-13)			570.96	4.00	4.50
8222.17	4 1/2 x 2' P-110, 11.6# Liner Sub			1.96	4.00	4.50
8220.21	Peak SMP-X 7", 26# Casing Hanger w/HTHP Element System			9.46	4.00	5.94
8210.75	TLC Releasing Tool Adaptor			2.69	1.75	5.25
8208.06	Peak 4 1/2" 3-Lug, Full Bore Gudgeon			2.50	4.00	4.50
8205.56	TLC to 3 1/2 IF Box Drill Pipe Adaptor			0.83	2.25	5.00
8204.73	3 1/2 IF x 8" Drill Pipe Sub			7.67	2.76	3.50
8197.06	40-4 3/4 x 2.25 ID Drill Collars			1228.02	2.25	4.75
6969.04	220 Joints 3 1/2 IF 13.3# Drill Pipe to Surface (73 Stands & 1)			6961.83	2.76	3.50
7.21	3 1/2 IF x 8" Drill Pipe Sub to Land			10.05	2.76	3.50
-2.84	Stick Up			0.00	2.76	3.50
WEIGHT OF DRILL PIPE STRING		TOTAL STRING LENGTH		12917.84		
PUSH / PULL TEST		STICK-UP OFF RIG FLOOR		2.84		
LINER STRING WEIGHT		LINER BOTTOM		12915.00		

End of Liner @ 12915'
TOTAL MEASURED DEPTH @
13177 FT

*** CONFIDENTIAL ***
NOT TO BE DISCLOSED OUTSIDE
Cimarex Energy Company