

RECEIVED
JUN 15 2010
HOBBSOCDUNITED 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	6. If Indian, Allottee or Tribe Name
b Type of Completion: ☐ New Well ☐ Work Over ☒ Deepen ☐ Plug Back ☐ Diff Resvr. Other <u>Deepen and RC to Hz Bone Spring</u>	7. Unit or CA Agreement Name and No.
2. Name of Operator Cimarex Energy Co. of Colorado	8. Lease Name and Well No Mallon 34 Federal No. 16
3 Address 600 N. Mariefeld St., Ste. 400; Midland, TX 79701	9. API Well No. 30-025-32818
3a. Phone No. (include area code) 432-571-7800	10 Field and Pool, or Exploratory Quail Ridge; Bone Spring, S
4. Location of Well (Report Location clearly and in accordance with Federal requirements)* At surface 1980 FSL & 660 FWL At top prod. interval reported below 1980 FSL & 660 FWL At total depth <u>2101</u> FSL & <u>320</u> FWL <u>4939/w</u>	11. Sec, T, R, M, on Block and Survey or Area 34-19S-34E 12. County or Parish Lea 13 State NM

14 Date Spudded Orig 11-8-96, RC 1-27-10	15 Date T D. Reached Orig 8-4-97, RC 2-17-10	16 Date Completed ☐ D & A ☒ Ready to Prod	17 Elevations (DF, RKB, RT, GL)* 3678' GR
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18 Total Depth: MD 14962' Vertical: 11100' TVD 10827'	19. Plug Back TD. MD 14962' TVD 10827'	20. Depth Bridge Plug Set: Cmt kick off plug from 10265-11100' and 10150-10705' for ST KO plug
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21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Borehole Profile, Compensated Neutron Photo Density Gamma Ray, Array Induction Focused Electric Gamma Ray	22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit report) Directional Survey ☐ No ☒ Yes (Submit copy)
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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
14 3/4"	9 5/8"	36	0'	1485'		850 sx			
8 3/4" & 7 1/2"	5 1/2"	17	0'	10300'		2575 sx			
4 3/8"	3 1/2"	9.3	10067'	14676'		No cement, PEAK			

24 Tubing Record								
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
3 1/2"	10068'							

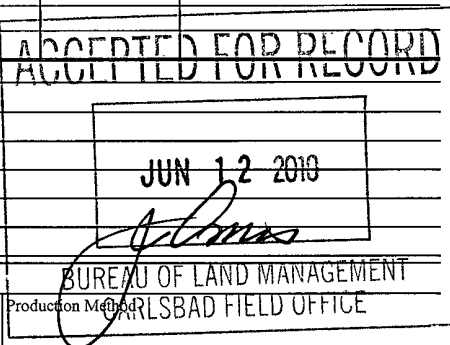
25 Producing Intervals				26 Perforation Record			
Formation	Top	Bottom		Perforated Interval	Size	No Holes	Perf. Status
A) Bone Spring	8239'	14962'		No Perfs			
B)							
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, etc.		Amount and Type of Material	
Depth Interval		See attached page, please	

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
03.19.20	03.23.10	24	→	157	129	74	43.3	1.356	Flowing
Choke Size	Tbg Press Flwg	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
64/64	SI 1100	0	→				822	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	
	SI		→						

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

**PETROLEUM ENGINEER**
JUL 12 2010
P.M.

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
				Queen	4580'
				Penrose	4993'
				Grayburg	5051'
				Brushy Canyon	8001'
				FBSS	9426'
				SBSC	9756'
				SBSS	9951'
				Scharb	10138'
				TBSC	10799'
				Wolfcamp	10899'

32. Additional remarks (include plugging procedure):

02.03.10 After reaching MD 10705' TVD 10692', set cement plug w 70 sx CI H to redrill curve.

02.05.10 Kicked off new 4 5/8" hole @ 10509.'

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 C-102, Inclination 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

Signature Natalie Krueger Date June 7, 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

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

Mallon 34 Federal No. 16

34-19S-34E

Lea County, NM

Depth Interval	Amount and Type of Material Used
Stage 1 14173-14972	4895 gal 20# linear gel, 3502 gal 15% HCL, 78,704 gal XL Borate carrying 50,074# 20/40 white sand and 23317# SB excel (activated). Flush with 5197 gal 20# linear gel. Drop 1.625 frac ball. Flush with 6731 gal 20# linear gel. Ball did not hit. Drop another 1.625" frac ball.
Stage 2 14639-14173	10,266 gal 20# linear, 3009 gal 15% HCL, 114,101 gal 20# XL Borate carrying 78,460# 20/40 white and 35,464# 20/40 SB Excel (activated). Flush with 5186 gal 20# linear gel. Drop 1.75" frac ball. Pump 2354 gal 20# linear gel.
Stage 3 13165-13639	1852 gal 20# linear, 1424 gal 15% HCL, 117,079 gal 20# XL Borate carrying 75,093# 20/40 white and 28,510# 20/40 SB Excel (activated). Flush with 2500 gal 20# linear gel. Drop 1.875" frac ball. Pump 1327 gal 20# linear gel.
Stage 4 12670-13165	1319 gal 20# linear, 1327 gal 15% HCL, 120,161 gal 20# XL Borate carrying 80,974# 20/40 white and 39,943# 20/40 SB Excel (activated). Flush with 4273 gal 20# linear gel. Drop 2.000" frac ball. Pump 2027 gal 20# linear gel.
Stage 5 12167-12670	1652 gal 20# linear, 1436 gal 15% HCL, 120,482 gal 20# XL Borate carrying 82,112# 20/40 white and 34,978# 20/40 SB Excel (activated). Flush with 4073 gal 20# linear gel. Drop 2.125" frac ball. Pump 2718 gal 20# linear gel.
Stage 6 11692-12167	5437 gal 20# linear, 1916 gal 15% HCL, 111,208 gal 20# XL Borate carrying 73,461# 20/40 white and 36,993# 20/40 SB Excel (activated). Flush with 4223 gal 20# linear gel. Drop 2.250" frac ball. Pump 2068 gal 20# linear gel.
Stage 7 11181-11692	4029 gal 20# linear, 2598 gal 15% HCL, 118,599 gal 20# XL Borate carrying 78,513# 20/40 white and 48,566# 20/40 SB Excel (activated). Flush with 4078 gal 20# linear gel.

WINDOW @ 77 FT
KOP @ 10,579

End of Curve @ 11,115'

#8 Predator Packer
Depth @ 11,086'
Pinned @ 2188 psi

#7 Predator Packer
Depth @ 11,180'
Pinned @ 2188 psi

2,156" ID Frac Port
Depth @ 11,436'
Pinned @ 2073 psi
Shear with 2,250" Ball

#6 Predator Packer
Depth @ 11,691'
Pinned @ 2188 psi

2,031" ID Frac Port
Depth @ 11,914'
Pinned @ 2073 psi
Shear with 2,125" Ball

#5 Predator Packer
Depth @ 12,166'
Pinned @ 2188 psi

1,906" ID Frac Port
Depth @ 12,417'
Pinned @ 2073 psi
Shear with 2,000" Ball

#4 Predator Packer
Depth @ 12,670'
Pinned @ 2188 psi

1,781" ID Frac Port
Depth @ 12,919'
Pinned @ 2073 psi
Shear with 1,875" Ball

#3 Predator Packer
Depth @ 13,165'
Pinned @ 2188 psi

1,656" ID Frac Port
Depth @ 13,414'
Pinned @ 2073 psi
Shear with 1,750" Ball

#2 Predator Packer
Depth @ 13,638'
Pinned @ 2188 psi

1,531" ID Frac Port
Depth @ 13,920'
Pinned @ 2073 psi
Shear with 1,625" Ball

#1 Predator Packer
Depth @ 14,173'
Pinned @ 2188 psi

Hydro-Pak Anchor
Depth @ 14,609'
Pinned @ 1864 psi

Pump Out Plug
Depth @
Pinned @ 4000 psi

Bottom of RSB @ 10,071'					
DOWN HOLE WELL PROFILE					
WELL NAME			DATE		
Cimarex Energy Company, Mallon 34 Federal 16H			2/17/10		
SUPERVISOR			TOOL HAND		
Gary Hutchings			Ray Lollar		
PHONE #			PHONE #		
432-208-3080			432-425-2193		
RIG #			FIELD TICKET #		
Key Energy Rig #881			4868		
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		5 1/2	10,292'	20	
WINDOW DESCRIPTION					
OPEN HOLE DESCRIPTION		4 5/8	14972.00	JUNCTION @	10,579'
Pump Out Plug Pinned to 4800 psi					
DOWNHOLE DESCRIPTION FROM BOTTOM UP (Liner String)					
BOTTOM @	DESCRIPTION			LENGTH	ID OD
14676.00	Pump Out Plug			0.85	0.75 3.75
14675.15	2 Joint 2 7/8 8rd, 6.5#, P-110 Liner (1-2)			65.34	2.44 2.88
14609.81	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.50	2.44 4.56
14609.31	5 1/2 x 2 7/8 Peak Hydro-Pak Open Hole Anchor			4.18	2.44 4.25
14605.13	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.99	2.44 3.50
14604.14	14 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (1-14)			429.49	2.99 3.50
14174.65	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
14173.82	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.51	2.44 4.56
14173.31	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.01	2.44 4.25
14169.30	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.99	2.44 3.50
14168.31	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (15-22)			246.55	2.99 3.50
13921.76	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
13920.92	5 1/2 x 2 7/8 Peak Gen III Stata-Port Sleeve w/1.531" Seat (Activate with 1.625" Ball)			2.90	1.53 4.25
13918.02	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.99 3.50
13917.02	9 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (23-31)			276.97	2.44 3.50
13640.05	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
13639.22	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.50	2.44 4.56
13638.72	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.00	2.44 4.25
13634.72	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.99	2.44 3.50
13633.73	7 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (32-38)			218.47	2.99 3.50
13415.26	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
13414.43	5 1/2 x 2 7/8 Peak Gen III Stata-Port Sleeve w/1.656" Seat (Activate with 1.750" Ball)			2.90	1.66 4.25
13411.53	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.99	2.44 3.50
13410.54	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (39-46)			244.18	2.99 3.50
13166.36	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
13165.52	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.50	2.44 4.56
13165.02	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.01	2.44 4.25
13161.01	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
13160.01	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (47-54)			239.88	2.99 3.50
12920.13	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
12919.30	5 1/2 x 2 7/8 Peak Gen III Stata-Port Sleeve w/1.781" Seat (Activate with 1.875" Ball)			2.90	1.78 4.25
12916.40	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.98	2.44 3.50
12915.42	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (55-62)			243.53	2.99 3.50
12671.89	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
12671.05	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.50	2.44 4.56
12670.55	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.01	2.44 4.25
12666.54	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
12665.54	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (63-70)			247.37	2.99 3.50
12418.17	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
12417.34	5 1/2 x 2 7/8 Peak Gen III Stata-Port Sleeve w/1.906" Seat (Activate with 2.000" Ball)			2.90	1.91 4.25
12414.44	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
12413.44	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (71-78)			245.30	2.99 3.50
12168.14	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
12167.31	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.50	2.44 4.56
12166.81	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.00	2.44 4.25
12162.81	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
12161.81	8 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (79-86)			246.65	2.99 3.50
11915.16	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
11914.32	5 1/2 x 2 7/8 Peak Gen III Stata-Port Sleeve w/2.031" Seat (Activate with 2.125" Ball)			2.90	2.03 4.25
11911.42	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
11910.42	7 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (87-93)			217.41	2.99 3.50
11693.01	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
11692.17	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.51	2.44 4.56
11691.66	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.01	2.44 4.25
11687.65	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.99	2.44 3.50
11686.66	7 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (94-100)			249.60	2.99 3.50
11437.06	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
11436.22	5 1/2 x 2 7/8 Peak Gen III Stata-Port Sleeve w/2.156" Seat (Activate with 2.250" Ball)			2.90	2.16 4.25
11433.32	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
11432.32	6 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (101-106)			250.09	2.99 3.50
11182.23	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.84	2.44 3.63
11181.39	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.51	2.44 4.56
11180.88	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.01	2.44 4.25
11176.87	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			0.99	2.44 3.50
11175.88	3 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (107-109)			88.46	2.99 3.50
11087.42	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
11086.59	5 1/2 x 2 7/8 Peak Rotational Centralizer			0.50	2.44 4.56
11086.09	5 1/2 x 2 7/8 Peak Open Hole Predator Packer w HPHT Element System			4.00	2.44 4.25
11082.09	2 7/8 8rd Pin x 3 1/2 Ultra FJ Box cross over			1.00	2.44 3.50
11081.09	33 Joints 3 1/2 9.3#, P-110 Ultra FJ Liner (110-142)			1008.33	2.99 3.50
10072.76	2 7/8 8rd Box x 3 1/2 Ultra FJ Pin cross over			0.83	2.44 3.63
10071.93	5 1/2 x 2 7/8 peak RSB Casing Hanger w/HPHT Element System			5.05	2.44 4.50
10066.88	5 1/2 RSB Setting Tool			5.00	1.75 4.50
10061.88	2 7/8 8rd Pin x 2 7/8 AOH Box Cross Over			0.78	2.44 3.88
10061.10	2 7/8 AOH Drill Pipe Sub			3.79	2.15 2.88
10057.31	2 7/8 AOH Pin x 2 3/8 IF Box Cross over			1.59	2.00 3.88
10055.72	23 Joints 2 7/8 IF Drill Collars			685.47	1.63 3.75
9370.25	2 3/8 IF Pin x 2 7/8 AOH Box Cross over			1.65	1.50 3.88
9368.60	297 (148 Stands, single) Joints 2 7/8 AOH Drill Pipe to Surface			9373.75	2.88 2.15
-5.15	Stick Up			0.00	2.88 2.15
WEIGHT OF LINER STRING			TOTAL STRING LENGTH		
PUSH / PULL TEST			STICK-UP OFF RIG FLOOR		
LINER STRING WEIGHT			TUBING BOTTOM		
38000			14681.15		
			5.15		
			14676.00		

Final Tool Placement 22-Feb-10
Completed by Ray Lollar

*** CONFIDENTIAL ***
NOT TO BE DISCLOSED OUTSIDE

Cimarex Energy Company

Bottom of liner @ 14,972 FT
TOTAL MEASURED DEPTH @
14,972 FT