

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCB - Artesia

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other						5. Lease Serial No NMNM14124			
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 Contact: NATALIE E KRUEGER Email: nkrueger@cimarex.com						8. Lease Name and Well No. MARQUARDT 1 PENN FEDERAL 001			
3. Address 600 N MARIENFELD ST., STE. 600 MIDLAND, TX 79701				3a. Phone No (include area code) Ph: 432-620-1936		9. API Well No. 30-015-33457			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWSE 2100FSL 1850FEL At top prod interval reported below NWSE 2100FSL 1850FEL At total depth NWSE 2100FSL 1850FEL						10. Field and Pool, or Exploratory CISCO/WOLFCAMP			
14. Date Spudded 12/31/2004						15. Date T.D. Reached 01/31/2005			
16. Date Completed ☐ D & A ☒ Ready to Prod 11/23/2010						17. Elevations (DF, KB, RT, GL)* 3322 GL			
18. Total Depth. MD TVD		11891		19. Plug Back T.D. MD TVD		20. Depth Bridge Plug Set MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) LOGS RUN ON INITIAL COMPLETION						22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☒ No ☐ Yes (Submit analysis) Directional Survey? ☒ No ☐ Yes (Submit analysis)			
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
17.500	13.375 J55	54.5	0	222		225			
12.250	9.625 NS110	40.0	0	3204		1000			
8.750	5.500 P110L80	17.0	0	11891		1920		1250	
ACCEPTED FOR RECORD JUL 24 2011 BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE									
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2.375	9162	9105							
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval		Size	No Holes	Perf Status		
A) C3 WOLFCAMP	9193	9744	9193 TO 9411		0.420	57	OPEN		
B) C2 CISCO CANYON	10014	10205	9446 TO 9610		0.420	60	OPEN		
C)			9652 TO 9744		0.420	60	OPEN		
D)			10014 TO 10079		0.420	60	OPEN, SEE LAST STAGE IN BOX 53		
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval		Amount and Type of Material							
9193 TO 941611		319526 GAL SLICKWATER, 1505 GAL 15% HLC, 4290 GAL 6% HCL, 19016# 100 MESH, 17834# 30/50							
9446 TO 9610		5795 GAL ACID, 163 GAL SLICKWATER, 15814# 100 MESH SAND, 145837# 30/50 SAND							
9652 TO 9744		8194 GAL ACID, 176854 GAL SLICKWATER, 12507# 100 MESH SAND, 133792# 30/50 SAND							
10014 TO 10079		4870 GAL ACID, 164789 GAL SLICKWATER, 9443# 100 MESH SAND, 102292# 30/50 SAND, LAST STAGE IN BOX 53							
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
11/28/2010	12/10/2010	24	→	1.0	260.0	26.0	57.6	0.99	Wolcamp C3
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
12/64	2800 SI	0.0	→				260000	PGW	Flows from Well
28a. 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
11/28/2010	12/10/2010	24	→	0.0	54.0	5.0	57.6	0.99	Cisco Canyon C2
Choke Size	Tbg Press Flwg	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
12/64	2800 SI	0.0	→				54000	PGW	Flows from Well

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #112079 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECEIVED
AUG 4 2011
NMOCD ARTESIA

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
				WOLFCAMP CISCO CANYON	8603 9994

32. Additional remarks (include plugging procedure):

Last Perf Interval:
Cisco Canyon 10103-10205 3 spf, 0.42, open
Frac'd with 5249 gal acid, 153715 gal slickwater, 10048# 100 mesh sand, 99472# 30/50 sand

DHC Percentages per DHC-4435:
Cisco Canyon 17.2%
Wolfcamp 82.8%

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

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

Electronic Submission #112079 Verified by the BLM Well Information System.
For CIMAREX ENERGY CO. OF COLORADO, sent to the Carlsbad

Name (please print) NATALIE E KRUEGER

Title REGULATORY

Signature (Electronic Submission)

Date 06/30/2011

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.

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KB - 20' above GL

Cimarex Energy Co. of Colorado

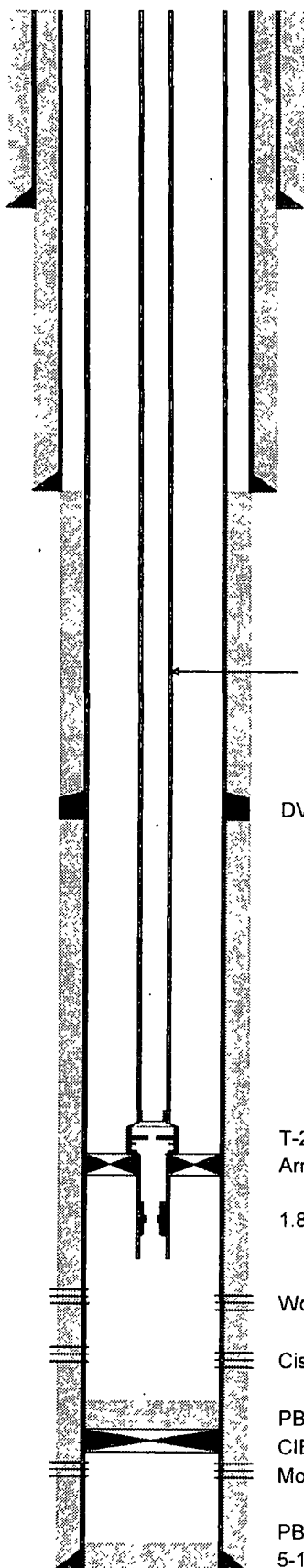
Marquardt 1 Penn Federal #1

2100' FSL & 1650' FEL

Sec 1, T-25-S, R-26-E, Eddy Co., NM

Scott Gengler

06/07/2011



13-3/8", 54.5# J-55 csg @ 219'
cmtd w/ 225 sx, cmt circ

9-5/8", 40# P-110 csg @ 3200'
cmtd w/ 1000 sx, cmt circ

TOC @ 3200'

279 jts 2-3/8" 4.7# L80 8rd Tubing

DV Tool @ 7022'
cmtd w/ 1050 sx

T-2 On-off Tool w/ 1.875" X Profile Nipple @ 9097'
Arrowset 1-X pkr @ 9105'

1.875" XN Nipple @ 9162'

Wolfcamp perfs (9193' - 9744')

Cisco Canyon perfs (10013' - 10206')

PBTD @ 10965'

CIBP @ 11000'

Morrow perfs (11066' - 11532')

PBTD @ 11838'

5-1/2" 17# L-80 & P-110 @ 11891' cmtd w/ 870 sx
TD @ 11891'