

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

operator

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM19423

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator Contact: NATALIE E. KRUEGER
CIMAREX ENERGY COMPANY OF (Email: nkrueger@cimarex.com)

8. Lease Name and Well No.
HAYDUKE 34 FEDERAL 1

3. Address 600 NORTH MARIENFELD STREET SUITE 600
MIDLAND, TX 79701 3a. Phone No. (include area code)
Ph: 432-620-1936

9. API Well No.
30-015-36601-00-S1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec. 34 T25S R26E Mer NMP
At surface NENE Lot A 800FNL 660FEL 32.091372°N Lat., 104.274255°W Lon

10. Field and Pool, or Exploratory
WILDCAT

At top prod interval reported below
Sec 34 T25S R26E Mer NMP
At total depth Lot D 780FNL 671FWL

11. Sec., T., R., M., or Block and Survey
or Area Sec 34 T25S R26E Mer NMP

12. County or Parish
EDDY 13. State
NM

14. Date Spudded 12/28/2010 15. Date T.D. Reached 02/11/2011 16. Date Completed
☐ D & A ☒ Ready to Prod.
06/22/2011

17. Elevations (DF, KB, RT, GL)*
3343 GL

18. Total Depth: MD 13433 TVD 9523 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)
POROSITY & RESIST

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	215		500		0	
12.250	9.625 J-55	40.0	0	1899		580		0	
8.750	7.000 P-110	26.0	0	9293		1790		1400	
6.125	4.500 P-110	11.6	9072	13430		470		9072	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9018	9012						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WOLFCAMP	9631	13373	10020 TO 10282		48	Open; Wolfcamp
B)			10409 TO 10671		48	Open; Wolfcamp
C)			10797 TO 11057		48	Open; Wolfcamp
D)			11183 TO 11443		48	Open; Wolfcamp

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

Depth Interval	Amount and Type of Material
13373	Bradenhead squeeze intermediate csg.
9631 TO 9893	380,340 gal 15# XL Borate, 352,437# 30/70 White Sand
10020 TO 10282	352,858 gal 15# XL Borate, 301,788# 30/70 White Sand
10409 TO 10671	386,033 gal 15# XL Borate, 361,716# 30/70 White Sand

28. Production - Interval A

ACCEPTED FOR RECORD
SEP 4 2011
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
FLOWS FROM WELL

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/27/2011	07/16/2011	24	→	50.0	2644.0	1372.0	58.0	0.99	POW
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. (2000.0)	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
30/64	SI	2000.0	→	50	2644	1372	52880	POW	

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
			→						RECLAMATION
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						DUE 12-22-11

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

ELECTRONIC SUBMISSION #116391 VERIFIED BY THE BLM WELL INFORMATION SYSTEM.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

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
DELAWARE	1894	5416	SAND	TOP SALT	1059
BONE SPRING	5416	6506	SAND	BASE OF SALT	1700
WOLFCAMP	8610		LIMESTONE AND SHALE	DELAWARE	1894
				BONE SPRING	5416
				WOLFCAMP	8610

32. Additional remarks (include plugging procedure):

Additional Perf Intervals:

11569-11829 0.42 48 holes, frac with 405,219 gal 15# XL Borate & 377,014# 30/70 White Sand
 11183-11443 0.42 48 holes, frac with 388,512 gal 15# XL Borate & 362,135# 30/70 White Sand
 10797-11057 0.42 48 holes, frac with 412,810 gal 15# XL Borate & 359,979# 30/70 White Sand
 10409-10671 0.42 48 holes, frac with 386,033 gal 15# XL Borate & 361,716# 30/70 White

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 #116391 Verified by the BLM Well Information System.
 For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
 Committed to AFMSS for processing by KURT SIMMONS on 08/30/2011 (11KMS2421SE)

Name (please print) NATALIE E KRUEGER

Title REGULATORY

Signature (Electronic Submission)

Date 08/29/2011

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

Additional data for transaction #116391 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
11569 TO 11829		48	Open, Wolfcamp
11955 TO 12215		48	Open, Wolfcamp
12341 TO 12601		48	Open, Wolfcamp
12727 TO 12987		48	Open, Wolfcamp
13104 TO 13373		48	Open, Wolfcamp

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

Depth Interval	Amount and Type of Material
10797 TO 11057	412,810 gal 15# XL Borate, 359,979# 30/70 White Sand
11183 TO 11443	388,512 gal 15# XL Borate, 362,135# 30/70 White Sand
11569 TO 11829	405,219 gal 15# XL Borate, 377,014# 30/70 White Sand
11955 TO 12215	281,973 gal 15# XL Borate, 354,168# 30/70 White Sand
12341 TO 12601	387,009 gal 15# XL Borate, 364,791# 30/70 White Sand
12727 TO 12987	447,977 gal 15# XL Borate, 414,178# 30/70 White Sand
13104 TO 13373	376,781 gal 15# XL Borate, 300,850# 30/70 White Sand

32. Additional remarks, continued

Sand

10020-10282 0.42 48 holes, frac with 354,568 gal 15# XL Borate & 301,791# 30/70 White

Sand

9631-9893 0.42 48 holes, frac with 380,340 gal 15# XL Borate & 352,437# 30/70 White Sand

Logs to be mailed to BLM.