

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM0560353

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 _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator CIMAREX ENERGY COMPANY OF CO			8. Lease Name and Well No. CRESCENT HALE 11 FEDERAL 1		
3. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701			9. API Well No. 30-015-38494-00-S1		
3a. Phone No. (include area code) Ph: 432-620-1936			10. Field and Pool, or Exploratory BENSON		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NENE 345FNL 545FEL At top prod interval reported below NENE 507FNL 563FEL At total depth SESE 331FSL 644FEL			11. Sec., T., R., M., or Block and Survey or Area Sec 11 T19S R30E Mer NMP		
14. Date Spudded 03/03/2011			15. Date T.D. Reached 04/02/2011		
16. Date Completed ☐ D & A ☒ Ready to Prod. 05/14/2011			17. Elevations (DF, KB, RT, GL)* 3481 GL		
18. Total Depth: MD TVD 13018 8676			19. Plug Back T.D. MD TVD 12937 8676		
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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H-40	48.0	0	533		520		0	
12.250	9.625 J-55	40.0	0	4170		1500		0	
8.750	5.500 P-110	17.0	0	13015		1920		3800	

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	8236							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8555	12927	8555 TO 9247	0.420	40	Open, Bone Spring
B)			9475 TO 10167	0.420	40	Open, Bone Spring
C)			10395 TO 11087	0.420	40	Open, Bone Spring
D)			11315 TO 12007	0.420	40	Open, Bone Spring

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

Depth Interval	Amount and Type of Material
8555 TO 9247	gal 20# Borate XL, 242198# 20/40 SLC
9475 TO 10167	gal 20# Borate XL, 243426# 20/40 SLC
10395 TO 11087	gal 20# Borate XL, 241312# 20/40 SLC
11315 TO 12007	gal 20# Borate XL, 234575# 20/40 SLC

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
05/16/2011			→					
Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status
			→					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
05/16/2011	06/13/2011	24	→	122.0	32.0	22.0	40.2	1.38	
Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
22/64		50.0	→	122	32	22	262	POW	

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

ELECTRONIC SUBMISSION #116117 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

OCD-Artesia

ACCEPTED FOR RECORD

SEP 4 2011

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
ELECTRIC PUMPING UNITRECLAMATION
DUE 11-14-11

ELECTRIC PUMPING UNIT

RECEIVED

SEP 12 2011

BLM REVISED 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
YATES	2256	2470	SAND	TOP SALT	700
SEVEN RIVERS	2470	3082	SHALE	BASE OF SALT	1900
QUEEN	3082	3950	SAND	YATES	2256
DELAWARE	3950	7675	SAND	QUEEN	3082
BONE SPRING	7675		LIMESTONE, SANDSTONE	DELAWARE	3950

32. Additional remarks (include plugging procedure):

Additional Perf/Frac Interval:

8555-9247 0.42, 40 holes, open

Frac'd with 183,025 gal 20# Borate XL & 242,198# 20/40 SLC

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 #116117 Verified by the BLM Well Information System.

For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad

Committed to AFMSS for processing by DEBORAH MCKINNEY on 08/29/2011 (11DLM1248SE)

Name(please print) NATALIE E KRUEGER

Title REGULATORY

Signature (Electronic Submission)

Date 08/25/2011

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 ****

Additional data for transaction #116117 that would not fit on the form

26. Perforation Record, continued

Perf Interval	Size	No. Holes	Perf Status
12235 TO 12927	0.420	40	Open, Bone Spring

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

Depth Interval	Amount and Type of Material
12235 TO 12927	gal 20# Borate XL, 239564# 20/40 SLC



KB - 18' above GL

Cimarex Energy Co. of Colorado

Crescent Hale 11 Federal 1H

SHL - 345' FNL & 545' FEL

BHL - 330' FSL & 660' FEL

Sec. 11, T-19-S, R-30-E, Eddy Co., NM

M Ketter

05/12/2011

13-3/8 48# J55 csg @ 529'
cmtd w/520 sxs, cmt circ

TOC 5-1/2" csg +/- 3800' (TS - Operator Unsure)

9-5/8" 40# J55 csg @ 4170'
cmtd w/ 1500 sxs, cmt circ

Quantity	Description	Length	Setting Depth
	KB	18 00	18 00
1	Tbg Hanger	1 00	19 00
1	2-7/8" Pup Jt	4 00	23 00
251	2-7/8" Tbg	8013 78	8036 78
1	2-7/8" Pup Jt	4 00	8040 78
4	Pumps	80 00	8120 78
1	AGH Pump	6 30	8127 08
1	Intake	3 30	8130 38
1	Protector	8 20	8138 58
1	Motor	26 90	8165 48
1	Phoenix	3 00	8168 48
1	Desander	4 10	8172 58
2	2-7/8" Tbg	62 78	8235 36
1	Bull Plug	0 50	8235 86

2nd Bone Spring Perfs (8,555'-12,927") MD

KOP @ 8310'

PBTD @ 12,937' (MD)

TD @ 13,018' (MD) & 8,675' (TVD)

5-1/2" 17# P110 @13015'

cmtd w/ 1920sx, TOC @ +/- 3800'(TS - Operator Unsure)