

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld Street, Suite 600 Midland, TX 79701		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW - 04/29/17
⁴ API Number 30 - 015 - 43847	⁵ Pool Name Benson; Bond Spring	⁶ Pool Code 5200
⁷ Property Code 316482	⁸ Property Name Crescent Hale 10 Federal Com	⁹ Well Number 4H

II. ¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
O	11	19S	30E		1257	South	1974	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	10	19S	30E		513	South	335	West	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 5/5/17	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
33479	Holly Frontier Refining & Marketing LLC	
36785	DCP Midstream. 370 17th St., Ste 2500 Denver CO	

IV. Well Completion Data

²¹ Spud Date 2/9/17	²² Ready Date 4/29/17	²³ TD 16904 / 18463	²⁴ PBD 16857	²⁵ Perforations 8173-16831	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
26"	20"	436'	890 - Circ		
17-1/2"	13-3/8"	1897'	1740 Circ		
12-1/4"	9-5/8"	4077'	1350 Circ		
8-3/4" & 8-1/2"	5-1/2"	16904'	3250 Circ		
	2-7/8"	8175'			

V. Well Test Data

³¹ Date New Oil 05/02/17	³² Gas Delivery Date 5/5/17	³³ Test Date 5-14-17	³⁴ Test Length 24	³⁵ Tbg. Pressure 460	³⁶ Csg. Pressure 120
³⁷ Choke Size 20/64	³⁸ Oil 355	³⁹ Water 1063	⁴⁰ Gas 356	⁴¹ Test Method	

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.
Signature: *Aricka Easterling*

Printed name:
Aricka Easterling

Title:

Regulatory

E-mail Address:

aeasterling@cmarex.com

Date:

7-26-2017

Phone:

918-560-7060

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

7-26-17

Pending BLM approvals will
subsequently be reviewed
and scanned

NM OIL CONSERVATION ARTESIA DISTRICT

JUL 21 2017

Form 160-4
(August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. Lease Serial No.
NMNM0560353

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No.	
2. Name of Operator CIMAREX ENERGY COMPANY		8. Lease Name and Well No. CRESCENT HALE 10 FEDERAL COM 4H	
Contact: TERRI STATHEM E-Mail: tstathem@cimarex.com			
3. Address 202 S CHEYENNE AVE., STE. 1000 TULSA, OK 74103		9. API Well No. 30-015-43847	
3a. Phone No. (include area code) Ph: 432-620-1936			
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 11 T19S R30E Mer At surface SWSE 1257FSL 1974FEL Sec 11 T19S R30E Mer At top prod interval reported below SWSE 1257FSL 1974FEL Sec 10 T19S R30E Mer At total depth SWSW 513FSL 335FWL		10. Field and Pool, or Exploratory BENSON BONE SPRING	
		11. Sec., T., R., M., or Block and Survey or Area Sec 11 T19S R30E Mer	
		12. County or Parish EDDY	
		13. State NM	
14. Date Spudded 02/09/2017	15. Date T.D. Reached 03/03/2017	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/29/2017	
17. Elevations (DF, KB, RT, GL)* 3351 GL			
18. Total Depth: MD TVD	16904 8463	19. Plug Back T.D.: MD TVD	16857
20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) NONE		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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
26.000	20.000 J55	94.0	0	436		890		0	
17.500	13.375 J55	54.5	0	1897		1740		0	
12.250	9.625 L80	40.0	0	4077	3471	1350		0	
8.500	5.500 P110	20.0	0	16904		3250		0	

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	8175							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
BONE SPRING	8173	16831	8173 TO 16831	0.400	652	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
8173 TO 16831	176766 BBLs TOTAL FLUID; 17252440# SAND

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
05/02/2017	05/05/2017	24	→	355.0	356.0	1063.0	43.1		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
20	460	120.0	→	355	356	1063	1002	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	C
			→					
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	
			→					

Pending BLM approvals will
subsequently be reviewed
and scanned

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

ELECTRONIC SUBMISSION #381493 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

7-26-17

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 SAND	4250		OIL/GAS WATER	RUSTLER	380
BONE SPRING	6075		OIL/GAS WATER	SALT	600
				7 RIVERS	2250
				DELAWARE SANDS	4250
				BONE SPRING	6075

32. Additional remarks (include plugging procedure):

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 #381493 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (please print) TERRI STATHEM

Title MANAGER REGULATORY COMPLIANCE

Signature (Electronic Submission)

Date 07/17/2017

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM0560353
6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on page 21. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
CRESCENT HALE 10 FEDERAL COM 4H2. Name of Operator
CIMAREX ENERGY COMPANY
Contact: TERRI STATHEM
E-Mail: tstatthem@cimarex.com9. API Well No.
30-015-438473a. Address
202 S. CHEYENNE AVE, STE 1000
TULSA, OK 741033b. Phone No. (include area code)
Ph: 432-620-193610. Field and Pool or Exploratory Area
BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 11 T19S R30E 1257FSL 1974FEL

11. County or Parish, State
EDDY COUNTY, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Drilling Operations
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Drilling

02/09/17 MIRU. Spud well.
02/10/17 TD 26" hole @ 436'. RIH w/ 20', 94#, J55, BTC csg & set @ 436'. Mix & pump 890 sx Class C, 14.8 ppg, 1.348 yld. Circ 126 sx to surf. WOC 9+ hours.
02/12/17 Test csg to 1500# for 30 mins. Ok.
02/13/17 TD 17-1/2" hole @ 1897'.
02/14/17 RIH w/ 13-3/8", 54.5#, J55 BTC csg & set @ 1897'. Mix & pump lead: 1345 sx Class C, 13.5 ppg, 1.81 yld, cmt; tail w/ 395 sx Class C, 14.8 ppg, 1.35 yld, cmt. Circ 432 sx to surface. WOC 12+ hours.
02/16/17 Test csg to 1500# for 30 mins. Ok.
02/18/17 TD 12-1/4" hole @ 4077'.
02/19/17 RIH w/ 9-5/8", 40#, L80, LTC csg & set @ 4077'. DV Tool @ 3471'. Mix & pump 1st Stage:

NM OIL CONSERVATION
ARTESIA DISTRICT

JUL 21 2017

RECEIVED

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #378948 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) TERRI STATHEM

Title MANAGER REGULATORY COMPLIANCE

Signature (Electronic Submission)

Date 06/14/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Title

te

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Pending BLM approvals will
subsequently be reviewed
and scanned

he United

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person known to make any false, fictitious or fraudulent statements or representations as to any matter within its

(Instructions on page 2)

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

Additional data for EC transaction #378948 that would not fit on the form

32. Additional remarks, continued

tail w/ 250 sx Class C, 14.8 ppg, 1.33 yld. Open DV tool, circ bottoms up ? received 17 bbls cmt to surface. Mix & pump 2nd Stage: Lead: 1100 sx Class H, 12.9 ppg, 1.91 yld. Circ 137 sx to surface. WOC 8 + hours.

02/20/17 Test csg to 1500# for 30 mins. Ok.

02/23/17 TD 8-3/4" vertical hole @ 8082'. TOH w/ BHA. TIH w/ curve assembly.

03/03/17 TD 8-1/2" hole @ 16904'. Circ and condition hole.

03/05/17 RIH w/ 5-1/2", 20#, P-110 BTC csg & set @ 16904'.

03/07/17 Mix & pump lead: 900 sx Class H, 11.9 ppg, 2.508 yld; tail w/ 2350 sx Class H, 14.5 ppg, 1.241 yld. Circ. 140 bbls cmt to surface. WOC.

03/08/17 Release rig.

Completion

04/05/17 Test to 9700# for 30 mins.

04/05/17 to

04/19/17 Perf Bone Spring @ 8173-16831', .40, 652 holes. Frac w/ 176766 bbls total fluid; 17252440# total proppant.

04/25/17 to

04/27/17 Mill out plugs and CO to PBTD @ 16857'

04/29/17 Flowback well.

05/02/17 RIH w/ 2-7/8" tbg & ESP and set @ 8175'. Turn well to production.