

District I
1625 N. French Dr., Hobbs, NM 88240

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

District II
811 S. First St., Artesia, NM 88210

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

Submit one copy to appropriate District Office

District III
1000 Rio Brazos Rd., Aztec, NM 87410

AMENDED REPORT

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 600 N. Marienfeld St, Suite 600 Midland, Tx 79701		² OGRID Number 215099
⁴ API Number 30 - 025-44840		³ Reason for Filing Code/ Effective Date NW - 10/11/18
⁵ Pool Name Grama Ridge; Bone Spring, West	⁶ Pool Code 28432	
⁷ Property Code 317301	⁸ Property Name West Grama Ridge 8-5 Federal Com	⁹ Well Number 3H

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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
M	8	22S	34E		517	South	540	West	Lea

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
Lot 4	5	22S	34E		100	North	518	West	Lea

¹² Lse Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
F	P				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco INc R & M P O Box 2039 Tulsa OK	
226737	DCP Midstream. 370 17th St., Ste 2500 Denver CO	

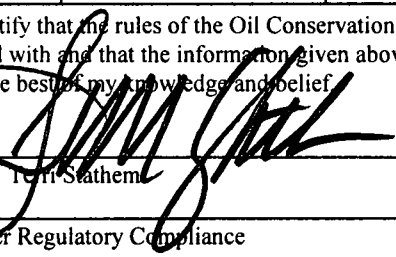
IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTB	²⁵ Perforations	²⁶ DHC, MC
8/6/18	9/30/18	20640	20615	10430-20590	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	1635'	1450		
12 1/4"	9 5/8"	5160'	1755		
8 3/4"	5 1/2"	20640'	4181 - TOC @ 1900'		

V. Well Test Data

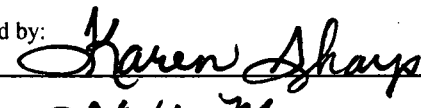
³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
10/11/18	10/13/18	10/18/18	24	0	1652
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
24/64	890	1810	1109		

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: 

Printed name: Terry Stathem
Title: Manager Regulatory Compliance
E-mail Address: tstathem@cimarex.com

Date: 12/28/18 Phone: 432-620-1936

OIL CONSERVATION DIVISION	
Approved by:	
Title:	Staff Mgr
Approval Date:	1-23-19

Documents pending BLM approvals will subsequently be reviewed and scanned

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.
NMNM129267

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

8. Well Name and No.
WEST GRAMA RIDGE 8-5 FED COM 3H

9. API Well No.
30-025-44840

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CIMAREX ENERGY COMPANY
Contact: TERRI STATHEM
E-Mail: tstathem@cimarex.com

3a. Address
600 N. MARIENFELD ST, STE 600
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-620-1936

10. Field and Pool or Exploratory Area
BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 8 T22S R34E SWSW 517FSL 540FWL

11. County or Parish, State
LEA 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 recomplete 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 recompletion 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.

08/06/18 spud well.
08/07/18 TD 17-1/2" surface hole @ 1635'. RIH w/ 13-3/8", 54.5#, J55, BTC csg & set @ 1635'. Mix & pump lead: 1150 sx Class C, 13.5 ppg, 1.73 yld; tail w/ 300 sx Class C, 14.8 ppg, 1.34 yld. Circ 542 sx to surface. WOC 9 hrs.
08/09/18 Test csg to 1500# for 30 mins. Ok.
08/11/18 TD 12-1/4" vertical hole @ 5160'. RIH w/ 9-5/8", 40#, J55, LTC csg & set @ 5160'.
08/12/18 Mix & pump lead: 1425 sx Class H, 1q2.9 ppg, 1.78 yld; tail w/ 330 sx 14.8 ppg, 1.37 yld. Circ 114 sx to surface. WOC 9 hrs.
08/13/18 Test csg to 1500# for 30 mins. Ok.
08/20/18 landed 8-3/4" curve. TOOH w/ curve assembly.
08/21/18 PU lateral assembly. Drill lateral.

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14. I hereby certify that the foregoing is true and correct.
Electronic Submission #449089 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Hobbs

Name (Printed/Typed) TERRI STATHEM	Title MANAGER REGULATORY COMPLIANCE
Signature (Electronic Submission)	Date 01/07/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____
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 _____

Documents pending BLM approvals will subsequently be reviewed and scanned

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

Additional data for EC transaction #449089 that would not fit on the form

32. Additional remarks, continued

09/01/18 TD 8-3/4" hole @ 20640'. TOOH w DP & LD.
09/04/18 RIH w/ 5-1/2", P110, CY, LTC/BTC csg & set @ 20640'.
09/05/18 Mix & pump lead: 1350 sx Class H, 10.5 ppg, 2.88 yld; tail w/ 2831 sx Class H, 14.5 ppg, 1.19 yld. TOC @ 1900?. WOC.

Completion

09/12/18 RIH & tag PBTD @ 20615'. Pressure test to 9900# for 30 mins.
Ok.Chart.
09/13/18 to
09/24/18 Perf Bone Spring @ 10430-20590', 1661 holes, .41. Frac w/ 466966
bbls total fluid & 24257056# sand.
9/25/18 SWI pending drilling out.
09/28/18 to
9/29/18 Drill out plugs & CO to PBTD. Flowback well.
09/30/18 Turn well over to production.

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 LOGS

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1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. NMNM129267	
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 _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator CIMAREX ENERGY COMPANY Contact: TERRI STATHEM E-Mail: tstathem@cimarex.com		7. Unit or CA Agreement Name and No.	
3. Address 600 N. MARIENFELD ST, STE 600 MIDLAND, TX 79701		8. Lease Name and Well No. WEST GRAMA RIDGE 8-5 FED COM 3H	
3a. Phone No. (include area code) Ph: 432-620-1936		9. API Well No. 30-025-44840	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 8 T22S R34E Mer At surface SWSW 517FSL 540FWL At top prod interval reported below SWSW 517FSL 540FWL Sec 5 T22S R34E Mer At total depth NWNW Lot 4 100FNL 518FWL		10. Field and Pool, or Exploratory GRAMA RIDGE; BONE SPRING	
14. Date Spudded 08/06/2018		15. Date T.D. Reached 09/01/2018	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/30/2018		17. Elevations (DF, KB, RT, GL)* 3525 GL	
18. Total Depth: MD 20640 TVD 10967		19. Plug Back T.D.: MD 20615 TVD	
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 checked="" type="checkbox"/> No <input 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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	1635		1450		0	0
12.250	9.625 J55	40.0	0	5160		1755		0	0
8.750	5.500 P110	20.0	0	20640		4181		1900	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)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	10430	20590	10430 TO 20590	0.410	1661	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
10430 TO 20590	466966 BBLs TOTAL FLUID; 24257056# 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
10/11/2018	10/18/2018	24	→	890.0	1109.0	1810.0	40.1		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	SI	1652.0	→	890	1109	1810	1246	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
			→						
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 reverse side)

ELECTRONIC SUBMISSION #448850 VERIFIED BY THE BLM WELL INFORMATION SYSTEM.

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

Documents pending BLM approvals will subsequently be reviewed and scanned

OMITTED **

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
RUSTLER	1580	1730		RUSTLER	1580
SALT	1730	3790		SALT	1730
DELAWARE	5210	8680		CAPITAN REEF	4290
BONE SPRING	8680	10967		DELAWARE	5210
				BONE SPRING	8680

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 #448850 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY, sent to the Hobbs**

Name (please print) TERRI STATHEM Title MANAGER REGULATORY COMPLIANCE

Signature _____ (Electronic Submission) Date 01/07/2019

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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