

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

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. 202 S Cheyenne Ave Ste 1000 Tulsa OK 74103		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW - 4/2017
⁴ API Number 30 - 025-43554	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 2H

II. ¹⁰ Surface Location

Ul or lot no. N	Section 8	Township 22S	Range 34E	Lot Idn	Feet from the 280	North/South Line South	Feet from the 2000	East/West line West	County Lea
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	-----------------------	------------------------	---------------

¹¹ Bottom Hole Location

UL or lot no. Lot 3	Section 5	Township 22S	Range 34E	Lot Idn	Feet from the 330	North/South line North	Feet from the 1882	East/West line West	County Lea
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

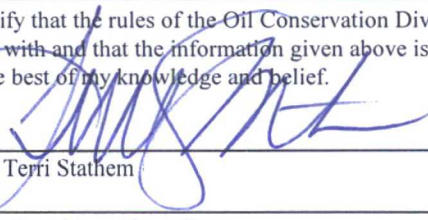

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco INc R & M P O Box 2039 Tulsa OK	
226737	DCP Midstream. 370 17th St., Ste 2500 Denver CO	

IV. Well Completion Data

²¹ Spud Date 1/24/17	²² Ready Date 04/13/17	²³ TD 20343	²⁴ PBTB 20329	²⁵ Perforations 10310-20305	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	1705'	1735		
12 1/4 "	9 5/8"	5155'	1855		
8 3/4 & 8 1/2 "	5 1/2 "	20343'	3180		

V. Well Test Data

³¹ Date New Oil 4-19-17	³² Gas Delivery Date 4-20-17	³³ Test Date 5-3-17	³⁴ Test Length 24	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1567
³⁷ Choke Size 24/64	³⁸ Oil 713	³⁹ Water 1699	⁴⁰ Gas 699		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: 		OIL CONSERVATION DIVISION	
Printed name: Terri Stathem		Approved by: 	
Title: Manager Regulatory Compliance		Title: Petroleum Engineer	
E-mail Address: tstathem@cimarex.com		Approval Date: 06/22/17	
Date: 6-15-17	Phone: 432-620-1936		

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OGD

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM129267

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. WEST GRAMA RIDGE 8-5 FED COM 2H	
Contact: TERRI STATHEM E-Mail: tstathem@cimarex.com		9. API Well No. 30-025-43554	
3. Address 202 S. CHEYENNE AVE, STE 1000 TULSA, OK 74103		3a. Phone No. (include area code) Ph: 432-620-1936	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Sec 8 T22S R34E Mer SESW 280FSL 2000FWL At top prod interval reported below Sec 8 T22S R34E Mer SESW 280FSL 2000FWL At total depth Sec 5 T22S R34E Mer NENW 330FNL 1882FWL		10. Field and Pool, or Exploratory BONE SPRING	
14. Date Spudded 01/24/2017		15. Date T.D. Reached 02/25/2017	
16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 04/13/2017		17. Elevations (DF, KB, RT, GL)* 3531 GL	
18. Total Depth: MD 20343 TVD 10813		19. Plug Back T.D.: MD 20329 TVD	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL RES	
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
17.500	13.375 J55	54.4	0	1705		1735		0	
12.250	9.625 J55	36.0	0	5155		1855		0	
8.500	5.500 P110	20.0	0	20343		3180		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	10310	20305	10310 TO 20305	0.400	735	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
10310 TO 20305	214814 BBLs TOTAL FLUID; 14477215# 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
04/19/2017	05/03/2017	24	→	713.0	699.0	1699.0	41.6		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	1567.0	→	713	699	1699	980	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 #379002 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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
SALT BASE OF SALT DELAWARE BONE SPRING	1925 3700 5256 8443	3700 5256 8443	NA NA OIL OIL	SALT DELAWARE BONE SPRING	1925 5256 8443

32. Additional remarks (include plugging procedure):
logs via overnight mail

tubing to be run in 6 months - please see NMOCD letter

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 #379002 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 06/15/2017

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 MANAGEMENT

HOBBS OGD

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.

JUN 16 2017

RECEIVED

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM129267
2. Name of Operator CIMAREX ENERGY COMPANY Contact: TERRI STATHEM E-Mail: tstathem@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 202 S. CHEYENNE AVE, STE 1000 TULSA, OK 74103	3b. Phone No. (include area code) Ph: 432-620-1936	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 8 T22S R34E SESW 280FSL 2000FWL		8. Well Name and No. WEST GRAMA RIDGE 8-5 FEDERAL 2H
		9. API Well No. 30-025-43554
		10. Field and Pool or Exploratory Area GRAMA RIDGE
		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 Drilling Operations
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<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 recompleat 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 recompleat 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

01/24/17 MIRU. Spud well @ 10:30 am.

01/25/17 TD 17-1/2" hole @ 1705'. RIH w/ 13-3/8", 54.5#, J55 BTC csg & set @ 1705'. Mix & pump lead: 985 sx Class C, 13.5 ppg, 1.81 yld, cmt; tail w/ 750 sx Class C, 14.8 ppg, 1.35 yld, cmt.

Circ 589 sx to surface. WOC 8+ hrs.

01/27/17 Test csg to 1500# for 30 mins. OK.

01/29/17 TD 12-1/4" hole @ 5155'. RIH w/ 9-5/8", 36#, J-55, LTC csg & set @ 5155'.

01/30/17 Mix & pump lead: 1365 sx Class C, 12.9 ppg, yld 1.87, cmt; tail w/ 490 sx Class C, 14.8

ppg, yld 1.33, cmt. Circ 337 sx to surface. WOC 12+ hrs.

01/31/17 Test csg to 1500# for 30 mins. OK.

02/06/17 TD 8-3/4" vertical hole @ 10035'. TOH w/ BHA. TOOH & run logs.

02/08/17 TIH w/ curve assembly.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #373562 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 04/21/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____	Title _____	Date _____
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 _____

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.

(Instructions on page 2)

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

Additional data for EC transaction #373562 that would not fit on the form

32. Additional remarks, continued

02/15/17 TD 8-3/4" curve @ 11589'. TOH w/ curve assembly. RIH w/ lateral assembly drilling 8-1/2" hole.

02/25/17 TD 8-1/2" hole @ 20343'. Circ and conditional hole.

02/27/17 to

02/28/17 RIH w/ 5-1/2", 20#, P110, BTC csg and set @ 20343'. Mix & pump lead: 560 sx Class H, 9.2 ppg; tail: 2620 sx class H, 14.5 ppg, yld 1.2. Full returns. Circ 250 sx to surf. WOC.

03/01/17 Release rig

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.
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 21. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
WEST GRAMA RIDGE 8-5 FEDERAL 2H2. Name of Operator
CIMAREX ENERGY COMPANYContact: TERRI STATHEM
E-Mail: tstathem@cimarex.com9. API Well No.
30-025-435543a. 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
GRAMA RIDGE

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

Sec 8 T22S R34E SESW 280FSL 2000FWL

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 recomplate 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 recomplate 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.

Completion

03/25/17 MIRU. Test to 10000# for 30 mins. OK. Chart.

04/01/17 to

04/07/17 Perf Bone Spring @ 10310-20305', .46, 735 holes. Frac w/ 214814 bbls total fluid;

14477215# sand.

04/08/17 to

04/10/17 Mill out plugs and CO to PBTD @ 20329'

04/11/17 Flowback well.

04/13/17 Turn well to production

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

**Electronic Submission #378695 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 06/12/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____

Title _____

Date _____

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 _____

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.

(Instructions on page 2)

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