

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. 202 S Cheyenne Ave., Ste. 1000 Tulsa, OK 74103		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW 7-9-17
⁴ API Number 30 - 015-43857	⁵ Pool Name Hackberry: Bone Spring, NM	⁶ Pool Code 97020
⁷ Property Code 316496	⁸ Property Name Hackberry 26 Federal Com	⁹ Well Number 2H

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
H	26	19S	30E		2022	North	730	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
H	28	19S	30E		1976	North	991	East	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 7-9-17	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁵ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
21778	Sunoco Inc. R&M Tulsa, OK	
226737	DCP Midstream Denver, CO	

IV. Well Completion Data

²¹ Spud Date 3/4/17	²² Ready Date 7/9/17	²³ TD <i>19222</i> 4/5/17	²⁴ PBDT 19198	²⁵ Perforations 8065' - 19222 <i>19126</i>	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Si.	²⁹ Depth Set	³⁰ Sacks Cement		
26	20	340	890 TOC 0'		
17 1/2	13 3/8	1938	1620 TOC 0'		
12 1/4	9 5/8	3447	1240 TOC 0'		
8 3/4	8 1/2	19222	3930 TOC 0'		
	2 7/8	8169			

V. Well Test Data

³¹ Date New Oil 7-13-17	³² Gas Delivery Date 7-9-17	³³ Test Date 7-22-17	³⁴ Test Length 24	³⁵ Tbg. Pressure 316	³⁶ Csg. Pressure 157
³⁷ Choke Size 28/64	³⁸ Oil 594	³⁹ Water 2181	⁴⁰ Gas 750	⁴¹ Test Method Pumping	

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.		OIL CONSERVATION DIVISION	
Signature: <i>Kimberleigh Rhodes</i>		Approved by: <i>Raymond W. Bradley</i>	
Printed name: Kimberleigh Rhodes		Title: <i>Geologist</i>	
Title: Regulatory Technician		Approval Date: <i>7-11-2017</i>	
E-mail Address: kirhodes@cimarex.com			
Date: 7/24/17	Phone: 918-560-7081		

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: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM130859

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resrv.
 Other _____

6. If Indian, Allottee or Tribe Name _____
 7. Unit or CA Agreement Name and No. _____

2. Name of Operator **CIMAREX ENERGY COMPANY OF OK** Contact: **KIMBERLEIGH RHODES**
 Email: **KIRhodes@cimarex.com**

3. Address **202 S CHEYENNE AVE SUITE 1000** 3a. Phone No. (include area code)
TULSA, OK 74103.4346 Ph: **918-560-7081**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **Sec 26 T19S R30E Mer NMP**
SENE 2022FNL 730FEL
 At top prod interval reported below **Sec 26 T19S R30E Mer NMP**
SENE 2022FNL 730FEL
 At total depth **Sec 28 T19S R30E Mer NMP**
SENE 1976FNL 991FEL

8. Lease Name and Well No. **HACKBERRY 26 FEDERAL COM 2H**
 9. API Well No. **30-015-43857-00-S1**

10. Field and Pool, or Exploratory **HACKBERRY-BONE SPRING**
 11. Sec., T., R., M., or Block and Survey or Area **Sec 26 T19S R30E Mer NMP**
 12. County or Parish **EDDY** 13. State **NM**

14. Date Spudded **03/04/2017** 15. Date T.D. Reached **04/05/2017** 16. Date Completed
 D & A Ready to Prod. **07/09/2017**

17. Elevations (DF, KB, RT, GL)* **3264 GL**

18. Total Depth: MD **19222** 19. Plug Back T.D.: MD **19198**
 TVD **8564** 8392 TVD **8564** 20. Depth Bridge Plug Set: MD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) **NONE**
 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
26.000	20.000 J-55	94.0	0	340		890	214	0	
17.500	13.375 J-55	54.5	0	1938		1620	474	0	
12.250	9.625 L-80	40.0	0	3447	2027	1240	359	0	
8.750	5.500 P-110	20.0	0	19222		3930	1071	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		8169						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8065	19126	8065 TO 19126	0.430	805	OPEN - Bone Spring
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8065 TO 19126	210042 BBLs TOTAL FLUID 21728587 LBS OF 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
07/09/2017	07/22/2017	24	→	594.0	750.0	2181.0	38.5		ELECTRIC PUMP SUB-SURFACE
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
28/64	SI 316	157.0	→	594	750	2181	1263	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 #382714 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM RE**

Pending BLM approvals will subsequently be reviewed and scanned

BC 9-12-17

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
RUSTLER	240	550		RUSTLER	240
LAMAR	5035	5090		LAMAR	5035
DELAWARE	5090	8065	OIL/GAS/WATER	DELAWARE	5090
BONE SPRING	8065	19126	OIL/GAS/WATER	BONE SPRING	8852

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 #382714 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 08/03/2017 (17DMH0147SE)**

Name (please print) KIMBERLEIGH RHODES Title REGULATORY TECHNICIAN

Signature _____ (Electronic Submission) Date 07/26/2017

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.

Revisions to Operator-Submitted EC Data for Well Completion #382714

	Operator Submitted	BLM Revised (AFMSS)
Lease:	NMNM130859	NMNM130859
Agreement:		
Operator:	CIMAREX ENERGY CO 202 S CHEYENNE AVE., STE. 1000 TULSA, OK 74103 Ph: 918-585-1100	CIMAREX ENERGY COMPANY OF CO 202 S CHEYENNE AVE SUITE 1000 TULSA, OK 74103.4346 Ph: 432.620.1936
Admin Contact:	KIMBERLEIGH RHODES REGULATORY TECHNICIAN E-Mail: KiRhodes@cimarex.com Ph: 918.560.7081	KIMBERLEIGH RHODES REGULATORY TECHNICIAN E-Mail: KiRhodes@cimarex.com Ph: 918-560-7081
Tech Contact:	KIMBERLEIGH RHODES REGULATORY TECHNICIAN E-Mail: KiRhodes@cimarex.com Ph: 918.560.7081	KIMBERLEIGH RHODES REGULATORY TECHNICIAN E-Mail: KiRhodes@cimarex.com Ph: 918-560-7081
Well Name: Number:	HACKBERRY 26 FEDERAL COM 2H	HACKBERRY 26 FEDERAL COM 2H
Location: State: County: S/T/R: Surf Loc:	NM EDDY Sec 26 T19S R30E Mer NMP NENE 2022FNL 730FEL	NM EDDY Sec 26 T19S R30E Mer NMP SENE 2022FNL 730FEL
Field/Pool:	HACKBERRY BONE SPRING	HACKBERRY-BONE SPRING
Logs Run:	NONE	NONE
Producing Intervals - Formations:	BONE SPRING	BONE SPRING
Porous Zones:	RUSTLER LAMAR DELAWARE BONE SPRING	RUSTLER LAMAR DELAWARE BONE SPRING
Markers:	RUSTLER LAMAR DELAWARE BONE SPRING	RUSTLER LAMAR DELAWARE BONE SPRING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM OIL CONSERVATION

ARTESIA DISTRICT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SEP 18 2017

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.

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. NMNM130859
2. Name of Operator CIMAREX ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
Contact: TERRI STATHEM E-Mail: tstathem@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 202 S CHEYENNE AVE., STE. 1000 TULSA, OK 74103	3b. Phone No. (include area code) Ph: 432-620-1936	8. Well Name and No. HACKBERRY 26 FEDERAL COM 2H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 26 T19S R30E SENE 2022FNL 730FEL		9. API Well No. 30-015-43857
		10. Field and Pool or Exploratory Area HACKBERRY BONE SPRING
		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 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 checked="" 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.

03/04/17 Spud well @ 7:00 pm. TD 26" surface hole @ 340'.
 03/05/17 RIH w/ 20", 94#, J55, BTC csg & set @ 340'. Mix & pump 890 sx Class C, 14.8 ppg, 1.35 yld. Circ. 364 sx to surface. WOC 12 hours.
 03/07/17 Test csg to 1500# for 30 mins ? pressure @ 1380' in 30 mins. Ok.
 03/10/17 TD 17-1/2" hole @ 1938'.
 03/11/17 RIH w/ 13-3/8", 54.5#, J55, BTC csg & set 1938'. Mix & pump lead: 1025 sx Class C, 13.5 ppg, 1.81 yld; tail w/ 595 sx Class C, 14.8 ppg, 1.35 yld. Circ 431 sx to surface. WOC 12 hrs.
 03/13/17 Test csg to 1500# for 30 mins. Good test.
 03/15/17 TD 12-1/4" hole @ 3447'. RIH w/ 9-5/8", 40#, L80 LTC csg & set @ 3447'. DVT @ 2027'. Mix & pump Stage 1: lead: 390 sx Class C, 12.9 ppg, 1.89 yld; tail w/ 250 sx Class C, 14.8 ppg, 1.33 yld. Mix & pump Stage 2: 600 sx Class C, 12.9 ppg, 1.89 yld. Circ 255 sx to surface. WOC 12

*ISC 9-18-17
Accepted for record - NMOCD*

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

**Electronic Submission #381403 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 07/17/2017

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 _____

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 know States any false, fictitious or fraudulent statements or representations as to any matter within its ju

: United

Additional data for EC transaction #381403 that would not fit on the form

32. Additional remarks, continued

hrs.

03/17/17 Test csg to 1500# for 30 mins. Good test.

03/21/17 TD 8-3/4" vertical hole @ 8085'. TOH & LD BHA. PU 8-3/4" curve BHA & drill curve.

03/24/17 TD curve @ 8947'. TIH w/ 8-1/2" lateral assembly & drill lateral.

04/05/17 TD 8-1/2" hole @ 19222'. LDDP

04/07/17 RIH w/ 5-1/2", 20#, P110, BTC csg & set @ 19222'.

04/08/17 Mix & pump lead: 1210 sx Class H, 11.9 ppg, 2.27 yld; tail w/ 2720 sx Class H, 14.5 ppg,

1.2 yld. Circ 361 sx to surface. WOC.

04/10/17 Release rig.

Completion

05/13/17 Test csg to 10000# for 30 mins ? ok.

06/27/17 to

07/03/17 Perf Bone Spring @ 8065-19126' w/805 holes, .43. Frac w/ 210042 bbls total fluid and 21728587# sand. WSI pending drill out.

07/07/17 to

7/08/17 Mill out plugs and CO to PBTB @ 19198'.

07/09/17 Flowback well.

07/14/17 RIH w/ 2-7/8" tbg & ESP & set @ 8169'. Turn well over to production.