

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 St., Ste. 600 Midland, TX 79701		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW - 4/19/2015
⁴ API Number 30 -015-42418	⁵ Pool Name Cottonwood Draw; Bone Spring	
	⁶ Pool Code 97494	
⁷ Property Code 313338	⁸ Property Name Marquardt Federal	⁹ Well Number 18H

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	12	25S	26E		336	South	544	West	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
D	12	25S	26E		557	North	659	West	Eddy

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 4/27/15	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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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 Mistream 370 17th St. Ste 2500; Denver CO	
	NM OIL CONSERVATION ARTESIA DISTRICT	
	JUN 1 2015	

RECEIVED

IV. Well Completion Data

²¹ Spud Date 3/7/2015	²² Ready Date 4/19/2015	²³ TD 11578	²⁴ PBDT 11560	²⁵ Perforations 7275-11560	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	431	171		
12 1/4	9 5/8	1915	208		
8 3/4	5 1/2	11578	2220		
	2-3/8	6555			

V. Well Test Data

³¹ Date New Oil 4/25/15	³² Gas Delivery Date 4/27/15	³³ Test Date 4/27/15	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 500	³⁶ Csg. Pressure 0
³⁷ Choke Size 40/64	³⁸ Oil 366	³⁹ Water 1206	⁴⁰ Gas 200	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: <i>Paula Brunson</i>			OIL CONSERVATION DIVISION Approved by: <i>[Signature]</i> Title: <i>Asst. H. Supervisor</i> Approval Date: <i>6-2-15</i>		
Printed name: Paula Brunson Title: Regulatory E-mail Address: pbrunson@cimarex.com			Pending BLM approvals will subsequently be reviewed and scanned <i>LD</i>		
Date: 5/28/15		Phone: 432-571-7848			

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMNM14124
2. Name of Operator CIMAREX ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
Contact: PAULA BRUNSON E-Mail: pbrunson@cimarex.com		7. If Unit or CA/Agreement, Name and/or No.
3a. Address 600 N MARIENFELD STE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-571-7848	8. Well Name and No. MARQUARDT FEDERAL 18H
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 12 T25S R26E 336FSL 544FWL		9. API Well No. 30-015-42418
		10. Field and Pool, or Exploratory COTTONWOOD DRAW; BS
		11. County or Parish, and State EDDY COUNTY, NM

12. CHECK 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"/> Fracture Treat	<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 shall 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 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

4/7/15. Pressure test frac stack to 8500 psi for 30 min. Test good.
4/8/15. Set CBP @ 11560. Pressure tested @ 6200 for 30 min. Test good.
4/8/15 to 4/14/15. Perf 2nd Bone Spring 7275-11560, .46 hole size, 360 holes. Frac with 73215 bbls frac fluid, 5062743 lbs sand.
4/15/15. Mill out plugs, wash to PBDT @ 11560.
4/18/15. RIH w/ 2-3/8 4.7lb L80 tbg and packer, set @ 6555. GLVs @ 1785, 3288, 4495, 5411, 5997, 6522.
4/19/15. Flow well back. Turn to Production.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #301747 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY, sent to the Carlsbad	
Name (Printed/Typed) PAULA BRUNSON	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 05/14/2015
THIS SPACE FOR FEDERAL OR STATE APPROVAL	
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 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.

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

UNITED STATES **NM OIL CONSERVATION**
DEPARTMENT OF THE INTERIOR **ARTESIA DISTRICT**
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

MAY 29 2015

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

2. Name of Operator **CIMAREX ENERGY COMPANY** Contact: **PAULA BRUNSON**
E-Mail: **pbrunson@cimarex.com**

3. Address **600 N MARIENFELD STE 600** 3a. Phone No. (include area code)
MIDLAND, TX 79701 Ph: **432-571-7848**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface **336FSL 544FWL**
At top prod interval reported below **336FSL 544FWL**
At total depth **330FNL 660FWL**

5. Lease Serial No. **NMNM14124**

6. If Indian, Allottee or Tribe Name _____

7. Unit or CA Agreement Name and No. _____

8. Lease Name and Well No. **MARQUARDT FEDERAL 18H**

9. API Well No. **30-015-42418**

10. Field and Pool, or Exploratory **COTTONWOOD DRAW; BS**

11. Sec., T., R., M., or Block and Survey or Area **Sec 12 T25S R26E Mer**

12. County or Parish **EDDY** 13. State **NM**

14. Date Spudded **03/07/2015** 15. Date T.D. Reached **03/23/2015** 16. Date Completed ☐ D & A ☒ Ready to Prod.
04/19/2015

17. Elevations (DF, KB, RT, GL)* **3287 GL**

18. Total Depth: **MD 11578** 19. Plug Back T.D.: **MD 11560** 20. Depth Bridge Plug Set: **MD**
TVD 7090 **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) _____

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 J55	48.0	0	431		500		0	171
12.250	9.625 J55	36.0	0	1915		675		0	208
8.750	5.500 L80	17.0	0	11578		2220		0	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	6555	6555						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	7275	11560	7275 TO 11560	0.460	360	OPEN
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
7275 TO 11560	73215 BBLs FLUID; 5,062,743 LBS 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
04/19/2015	04/27/2015	24	→	366.0	200.0	1206.0	45.5		GAS LIFT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
40	500	0.0	→	366	200	1206	546	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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

Pending BLM approvals will subsequently be reviewed and scanned

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

ELECTRONIC SUBMISSION #303253 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
BELL CANYON	1988	2821	WATER	SALADO	1183
CHERRY CANYON	3035	3690	WATER	CASTILLE	1732
BONE SPRING	5532	6143	WATER, GAS	CHERRY CANYON	1932
BONE SPRING	6947	7205	WATER, OIL, GAS	BRUSHY CANYON	4017
				BONE SPRING	5413

32. Additional remarks (include plugging procedure):

Attachments:

C-102

EOW Directional Survey

C-104 Request for Allowable and Authorization to Transport

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 #303253 Verified by the BLM Well Information System.
For CIMAREX ENERGY COMPANY, sent to the Carlsbad

Name (please print) PAULA BRUNSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 05/28/2015

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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