

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 **OIL CONSERVATION**
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

JAN 22 2015

Submit one copy to appropriate District Office

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

RECEIVED

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. 600 N. Marienfeld St., Ste. 600 Midland, TX 79701		² OGRID Number 215099
		³ Reason for Filing Code/ Effective Date NW 9-23-14
⁴ API Number 30 -015-41791	⁵ Pool Name Forty Niner Ridge Bone Spring	⁶ Pool Code 24720
⁷ Property Code 39937	⁸ Property Name Sandy Federal	⁹ Well Number 21H

II. ¹⁰ Surface Location

Ul or lot no. P	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
	23	23S	30E		225	South	250	East	Eddy

¹¹ Bottom Hole Location

UL or lot no. B	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	24	23S	30E		330	North	2334	East	Eddy
¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 9-15-14	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 Mistream 370 17th St, Ste 2500; Denver CO	

IV. Well Completion Data

²¹ Spud Date	²² Ready Date	²³ TD	²⁴ PBTD	²⁵ Perforations	²⁶ DHC, MC
04-24-14	9-15-14	15711/9760	15708	10460-15675	
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2	13 3/8	377	390		
12 1/4	9 5/8	3852	1485		
8 3/4 & 8 1/2	5 1/2	15711	2790- TOC 0'		
	2-3/8	9389			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
09-23-14	10-1-14	10-15-14	24 hrs	550	110
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas	⁴¹ Test Method	
24/64	431	1156	938		

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: *Terry Stathem*

Printed name:
Terry Stathem

Title: Regulatory

E-mail Address Tstathem@cimarex.com

Date:
01-16-14

Phone:
432-620-1936

OIL CONSERVATION DIVISION

Approved by: *R. Dade*

Title: *Dist. R. Supervisor*

Approval Date: *4/8/2015*

Pending BLM approvals will subsequently be reviewed and scanned *des*

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.

5. Lease Serial No.
NMNM1 14356

6. If Indian, Allottee or Tribe Name

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

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
SANDY FEDERAL 21H

2. Name of Operator
CIMAREX ENERGY CO. Contact: DEYSI FAVELA
E-Mail: dfavela@cimarex.com

9. API Well No.
30-015-41791

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

3b. Phone No. (include area code)
Ph: 432-620-1964

10. Field and Pool, or Exploratory
FORTY NINER RIDGE; BS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 23 T23S R30E NWNE 225FSL 250FEL

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 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 shall 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 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//4/14 Spud Well
4/25/14 TD 17 1/2" Surface Hole at 377'
Ran 13 3/8 48# J-55 ST&C Casing to 367'
Mix & Pump tail cmt: 390 sxs of Class C cmt, 14.8 ppg, 1.34 yld. Circ 58.6 sxs of cmt to surface.
WOC 24+ hrs.
4/28/14 Test Casing to 1500 psi for 30 min, ok.
4/30/14 TD 12 1/4" Hole at 3852'
5/01/14 Ran 9 5/8" 36# J55 LT&C Casing to 3852'
Mix & Pump Lead cmt: 1175 sxs of POZ C cmt, 12.8 ppg, 1.92 yld. Tail cmt: 310 sxs of Class C cmt,
14.8 ppg, 1.34 yld. Circ 314 sxs of cmt to surface. WOC 24+ hrs
5/02/14 Test Casing to 1500 psi for 30 min, ok.
5/30/14 TD WELL @ 15711'

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

**Electronic Submission #250285 verified by the BLM Well Information System
For CIMAREX ENERGY CO., sent to the Carlsbad**

Name (Printed/Typed) DEYSI FAVELA

Title DRILLING TECH

Signature (Electronic Submission)

Date 06/20/2014

THIS SPACE FOR FEDERAL OR STATE OFFICIAL 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 _____

PD
**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 knowing and intentionally 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.

Additional data for EC transaction #250285 that would not fit on the form

32. Additional remarks, continued

6/01/14 Ran 5 1/2" 17# P-110 LT&C/BT&C Casing to 15711'
Mix & Pump lead_cmt 1490 sxs of Poz H cmt, 11.9 ppg, 2.26 yld. Tail 1750 sxs of Pox H cmt, 14.5
ppg, 1.24 yld. Lost returns after Dropping Plug to displace with fresh water
6/02/14 Ran Temperature Survey, found TOC @ 4500'
6/03/14 Rig Released

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 22 2015

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

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED
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.
NMNM114356

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
SANDY FEDERAL 21H

2. Name of Operator
CIMAREX ENERGY COMPANY
Contact: CRISTEN BURDELL
E-Mail: cburdell@cimarex.com

9. API Well No.
30-015-41791

3a. Address
202 S. CHEYENNE AVE STE 1000
TULSA, OK 74103

3b. Phone No. (include area code)
Ph: 918-560-7038

10. Field and Pool, or Exploratory
FORTY NINER RIDGE; BS

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 23 T23S R30E SESE 225FSL 250FEL

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
	<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 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 shall 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 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.)

AMENDED FROM 1-9-15 SUNDRY SUBMISSION *original had incorrect perms*:

8/20/14 TOC @ 4440?. Request approval from BLM for bradenhead squeeze ? Approved.
8/22/14 MIRU. Mix & pump 550 sx, 11.9, 50/50 PC. WOC. No CBL required. TOC @ surf.
8/24/14 Test csg to 8500# for 30 mins. Ok. PBTD @ 15708.
9/02/14 to
9/04/14 Perf Bone Spring @ 10460-15675, .54, 432 holes. Frac w/ 2034188 gals total fluid, 3065677# sand. SI pending offset frac.
9/10/14 Mill out plugs and CO to PBTD.
9/11/14 Flowback well.
9/15/14 RIH w/ 2-3/8 tbg, pkr and GLV & Set @ 9389. GLV @ 1824, 2994, 3743, 4493, 5177, 5894, 6578, 7295, 7980, 8696, 9347. Turn well over to production.

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

**Electronic Submission #287600 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) CRISTEN BURDELL	Title REGULATORY ANALYST
Signature (Electronic Submission)	Date 01/12/2015

THIS SPACE FOR FEDERAL OR

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 *(Signature)*

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 ****

NM OIL CONSERVATION
ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JAN 22 2015

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. Lease Serial No.
NMNM114356

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 Contact: TERRI STATHEM E-Mail: tstatthem@cimarex.com		8. Lease Name and Well No. SANDY FEDERAL 21H	
3. Address 202 S. CHEYENNE AVE, STE 1000 TULSA, OK 74103		9. API Well No. 30-015-41791	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 23 T23S R30E Mer At surface 225FSL 250FEL Sec 23 T23S R30E Mer At top prod interval reported below 225FSL 250FEL Sec 24 T23S R30E Mer At total depth 330FNL 2334FEL		10. Field and Pool, or Exploratory FORTY NINER RIDGE BS	
14. Date Spudded 04/24/2014		15. Date T.D. Reached 05/30/2014	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/15/2014		17. Elevations (DF, KB, RT, GL)* 3294 GL	
18. Total Depth: MD 15711 TVD 9760		19. Plug Back T.D.: MD 15708 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 type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)	
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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 Cment	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	48.0	0	377		390		0	59
12.250	9.625 J55	36.0	0	3852		1485		0	314
8.500	5.500 P110	17.0	0	15711		2790		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)
2.375	9389	9389						

25. Producing Intervals			26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	10460	15675	10460 TO 15675	0.540	432	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10460 TO 15675	2034188 GALS FLUID; 3065677# 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
09/23/2014	10/15/2014	24	→	431.0	938.0	1156.0	46.5		GAS LIFT
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	SI	550	→	431	938	1156		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	

Pending BLM approvals will subsequently be reviewed and scanned *[Signature]*

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	3865	7750	SANDSTONE, WATER SANDSTONE, SHALE, LIMESTONE	RUSTLER	150
BONE SPRING	7750	16479		SALT	488
				DELAWARE	3865
				BONE SPRING	7750

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 #288300 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 01/16/2015

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.

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