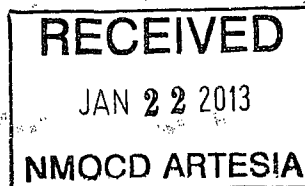




PO Box 1370  
Artesia, NM 88211-1370  
(575) 748-1288



December 3, 2012

Cimarex Energy Co.  
600 N. Marienfeld, Suite 600  
Midland, TX 79701

15 406.44

RE: Vermejo SWD #1  
900' FSL & 2530' FEL  
Sec. 15, T17S, R28E  
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

Chris Graham  
Drilling Superintendent

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 3<sup>rd</sup> day of December, 2012.

Notary Public



# Pason DataHub Deviation Survey  
# Well Dossier 1350767349 - VERMEJO SWD 1

#	Date	Depth	Deviation
	10/24/2012	317	0.30
	10/26/2012	766	0.60
	10/26/2012	1234	0.40
	10/26/2012	1672	0.20
	10/27/2012	2035	0.40
	10/28/2012	2494	0.50
	10/29/2012	2964	0.20
	10/29/2012	3376	0.50
	10/29/2012	3815	0.50
	10/30/2012	4257	0.50
	10/30/2012	4698	0.50
	10/30/2012	4980	0.10
	10/30/2012	5453	0.00
	10/31/2012	5891	0.00
	11/1/2012	6365	0.00
	11/2/2012	6807	0.50
	11/3/2012	7248	0.50
	11/4/2012	7691	0.50
	11/7/2012	8133	0.00

# EOF



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM 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 type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: INJECTION		5. Lease Serial No. NMNM080268
2. Name of Operator CIMAREX ENERGY COMPANY OF CO-Mail: pbrunson@cimarex.com		6. If Indian, Allottee or Tribe Name
3a. Address 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701	3b. Phone No. (include area code) Ph: 432-571-7848	7. If Unit or CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 15 T17S R28E SWSE 900FSL 2530FEL		8. Well Name and No. VERMEJO SWD 1
		9. API Well No. 30-015-40644-00-X1
		10. Field and Pool, or Exploratory EDDY
		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	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 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 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.)

10/23/12. Spud well.

10/24/12. TD 17.5" hole @ 362'. Set 13-3/8" 48# J55 casing @ 362'. Mix and pump lead 170 sks Extendacem CZ 13.5 ppg 1.75 yield, tail 200 sks Class C 14.8 ppg 1.33 yield. Circ 84 sks to surface. WOC 20+ hrs.

10/25/12. Test casing to 1000 psi for 30 min. Okay.

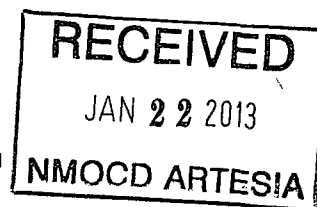
10/26/12. TD 12-1/4" hole @ 2105'.

10/27/12. Run 9-5/8" 36# LT&amp;C casing. Set @ 2105'. Mix and pump lead 620 sks Econocem 12.9 ppg 1.88 yield, tail 150 sks Halcem 14.8 ppg 1.33 yield. Circ 209 sks to surface. WOC 8+ hrs.

10/28/12. Test casing to 1500 psi for 30 min. Okay.

11/16/12. Pipe left in hole. Top of pipe @ 7779', bottom @ 8016'. Set whipstock @ 7422' for sidetrack.

11/17/12. Cement whipstock with 225 sks Class H cmt 15.6 ppg yield 1.19.



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

**Electronic Submission #180967 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 01/15/2013 (13KMS4443SE)**

Name (Printed/Typed) PAULA BRUNSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/11/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By <b>ACCEPTED</b>	JAMES A AMOS Title SUPERVISOR EPS	Date 01/17/2013
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 Carlsbad

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

**Additional data for EC transaction #180967 that would not fit on the form**

**32. Additional remarks, continued**

11/21/12. TD 8" hole @ 8130'.

11/22/12. Set 7" 26# N80 BTC casing @ 8130'. Set DV Tool @ 6789'.

11/23/12. Mix and pump 1st stage cement 150 sks Light H 10.8 ppg 2.35 yield. Open DV Tool. Circ 20 bbls cmt to surface. Mix and pump second stage 680 sks Tuned Light 10.8 ppg 2.39 yield cmt.

Circ 164 sks to surface. WOC 18+ hrs.

11/24/12. Test casing to 1500 psi for 30 min. Okay. Drill out DV Tool @ 6789'.

11/28/12. TD 6-1/8" hole @ 8700'.

11/29/12. Set 4.5" 11.6# L80 liner f/8009 t/8691'.

11/30/12. Mix and pump 50 sks Tuned Light H 10.8 ppg 2.35 yield.

12/1/12. Release rig.

## Revisions to Operator-Submitted EC Data for Sundry Notice #180967

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	DRG SR
Lease:	NMNM080268	NMNM080268
Agreement:		
Operator:	CIMAREX ENERGY COMPANY 600 N MARIENFELD STE 600 MIDLAND, TX 79701 Ph: 432-571-7800	CIMAREX ENERGY COMPANY OF CO 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701 Ph: 432.571.7800
Admin Contact:	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848
Tech Contact:	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	EDDY	EDDY
Well/Facility:	VERMEJO SWD 1 Sec 15 T17S R28E SWSE 900FSL 2530FEL	VERMEJO SWD 1 Sec 15 T17S R28E SWSE 900FSL 2530FEL

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.**

5. Lease Serial No.  
NMNM080268

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
VERMEJO SWD 1

9. API Well No.  
30-015-40644-00-X1

10. Field and Pool, or Exploratory  
EDDY

11. County or Parish, and State  
EDDY COUNTY, NM

1. Type of Well  
☐ Oil Well ☐ Gas Well ☒ Other: INJECTION

2. Name of Operator  
CIMAREX ENERGY COMPANY OF CO-Mail: pbrunson@cimarex.com

Contact: PAULA BRUNSON  
Ph: 432-571-7848

3a. Address  
600 NORTH MARIENFELD STREET SUITE 600  
MIDLAND, TX 79701

3b. Phone No. (include area code)  
Ph: 432-571-7848

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 15 T17S R28E SWSE 900FSL 2530FEL

**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	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 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.)

12/5/12. RIH w/ CBL to 8564'. TOC @ 160'  
12/7/12. Drill out wiper plug and C/O to 8640'. Tested casing to 2500 psi for 30 min. Test good.  
12/8/12. Perf 8155' - 8500', 586 holes.  
12/11/12. Acidize with 240 bbls 15% HCl. Perform injection test up to 4 BPM @ 1600 psi for 30 min, 120 bbls.  
12/16/12. RIH with tubing. 3-1/2" 9.3# L80 set at 7914', 2-3/8" 4.7# L80 tubing 7914'-8122'. Packer set @ 8122'. Tested packer to 1000 psi for 30 min. Test good.  
12/18/12. Performed MIT. Test submitted under separate sundry.  
12/19/12. Turn to Production.



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

Electronic Submission #182614 verified by the BLM Well Information System  
For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad  
Committed to AFMSS for processing by KURT SIMMONS on 01/16/2013 (13KMS4447SE)

Name (Printed/Typed) PAULA BRUNSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 01/14/2013

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By **ACCEPTED**

JAMES A AMOS  
Title SUPERVISOR EPS

Date 01/17/2013

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 Carlsbad

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.

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

## Revisions to Operator-Submitted EC Data for Sundry Notice #182614

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER SR	DRG SR
Lease:	NMNM080268	NMNM080268
Agreement:		
Operator:	CIMAREX ENERGY COMPANY 600 N. MARIENFELD STE 600 MIDLAND, TX 79701 Ph: 432-571-7800	CIMAREX ENERGY COMPANY OF CO 600 NORTH MARIENFELD STREET SUITE 600 MIDLAND, TX 79701 Ph: 432.571.7800
Admin Contact:	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848
Tech Contact:	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848	PAULA BRUNSON REGULATORY ANALYST E-Mail: pbrunson@cimarex.com  Ph: 432-571-7848
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	EDDY	EDDY
Well/Facility:	VERMEJO SWD 1 Sec 15 T17S R28E SWSE 900FSL 2530FEL	VERMEJO SWD 1 Sec 15 T17S R28E SWSE 900FSL 2530FEL