

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
NM OIL CONSERVATION
ARTESIA DISTRICT

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 Street, Suite 600 Midland, TX 79701		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date RC - Combined Test / 10/30/2013
⁴ API Number 30 -015 - 33683	⁵ Pool Name Cottonwood Draw U. Penn	⁶ Pool Code 97354
⁷ Property Code 33101	⁸ Property Name Liberty 24 Fed Com	⁹ Well Number 2

II. Surface Location

Ul or lot no. L	Section 24	Township 25S	Range 26E	Lot Idn	Feet from the 1475	North/South Line South	Feet from the 940	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. L	Section 24	Township 25S	Range 26E	Lot Idn	Feet from the 1475	North/South line South	Feet from the 940	East/West line West	County Eddy
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¹² Lse Code	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/31/13	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 Midstream 370 17th St., Ste 2500 Denver CO	

IV. Well Completion Data

²¹ Spud Date 3/17/2005	²² Ready Date 10/30/13	²³ TD 12330	²⁴ PBTD 11426	²⁵ Perforations 10261-10538	²⁶ DHC, MC DHC 4682
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 1/2"	13 3/8"	220	250		
12 1/4"	9 5/8"	2665	830		
8 3/4"	5 1/2"	12280	2250		
	2 3/8"	10011			69-3-135 CIBP @ 11461; 35 cmt

V. Well Test Data

³¹ Date New Oil 11/7/13	³² Gas Delivery Date 11/7/13	³³ Test Date 11/7/13	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 1325	³⁶ Csg. Pressure 25
³⁷ Choke Size 12/64	³⁸ Oil 25	³⁹ Water 412	⁴⁰ Gas 183		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: Paula Brunson

Printed name:
Paula Brunson

Title:
Regulatory Analyst

E-mail Address:
pbrunson@cimarex.com

Date:
3/2/2015

Phone:
432-571-7848

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

Pending BLM approvals will
subsequently be reviewed
and scanned

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		³ Reason for Filing Code/ Effective Date RC - Combined Test / 10/30/2013
⁴ API Number 30-015 - 33683	⁵ Pool Name Sage Draw; Wolfcamp, East	⁶ Pool Code 96890
⁷ Property Code 33101	⁸ Property Name Liberty 24 Fed Com	⁹ Well Number 2

II. Surface Location

UL or lot no. L	Section 24	Township 25S	Range 26E	Lot Idn	Feet from the 1475	North/South Line South	Feet from the 940	East/West line West	County Eddy
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21778	Sunoco Inc. R & M P O Box 2039; Tulsa OK	
226737	DCP Midstream 370 17th St., Ste 2500 Denver CO	
NM OIL CONSERVATION ARTESIA DISTRICT MAR 10 2015 RECEIVED		

IV. Well Completion Data

²¹ Spud Date 3/17/2005	²² Ready Date 10/30/13	²³ TD 12330	²⁴ PBTD 11426	²⁵ Perforations 9378-9877	²⁶ DHC, MC DHC - 4682
²⁷ Hole Size 17 1/2"	²⁸ Casing & Tubing Size 13 3/8'	²⁹ Depth Set 220	³⁰ Sacks Cement 250		
12 1/4"	9 5/8"	2665	830		
8 3/4"	5 1/2"	12280	2250		
	2 3/8"	10011	CIBP @ 11461'; 35' cmt		

V. Well Test Data

³¹ Date New Oil 11/7/13	³² Gas Delivery Date 11/7/13	³³ Test Date 11/7/13	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 1325	³⁶ Csg. Pressure 25
³⁷ Choke Size 12/64	³⁸ Oil 61	³⁹ Water 1010	⁴⁰ Gas 427	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: Paula Brunson			OIL CONSERVATION DIVISION		
Printed name: Paula Brunson			Approved by: [Signature]		
Title: Regulatory Analyst			Title: [Signature]		
E-mail Address: pbrunson@cimarex.com			Approval Date: 5-18-15		
Date: 3/2/2015		Phone: 432-571-7848			

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

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.5. Lease Serial No.
NMNM96835

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other8. Well Name and No.
LIBERTY 24 FEDERAL COM 22. Name of Operator
CIMAREX ENERGY COMPANYContact: PAULA BRUNSON
E-Mail: pbrunson@cimarex.com9. API Well No.
30-015-336833a. Address
600 N MARIENFELD STE 600
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-571-784810. Field and Pool, or Exploratory
COTTONWOOD DRAW U. PENN

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

Sec 24 T25S R26E 1475FSL 940FWL

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 checked="" type="checkbox"/> Recomplete	<input 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 recompleate 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.)

8/28/13 ? RIH w/ 4-1/2 CIBP gamma tool. Set CIBP @ 11,506. Mix Class H cmt. Dump 35 ft cement on top of CIBP. RD wireline.

8/29/13 ? RIH w/ tbg, tag cmt @ 11,471. Test csg to 2500 psi. Test good.

8/30/13 ? Load casing w/ 30 bbls fresh water. Pressure up to 2500. Continue bldg. pressure to 8500 psi. Held pressure for 5 min w/ no leak off and then dropped to 0 instantly. Had 1030 psi on backside (4-1/2 x 7). Appeared that CIBP gave way. WSI while discussing with BLM.

9/3/13 ? RIH w/ CIBP. Tried to set at 11,461, but setting tool stripped off threads on the shear rod dropping the plug. Tagged back up at 11,503. RU new setting tool and new CIBP. Set plug at 11,461. Test CIBP to 2000 psi. Held pressure. Dump 35 ft Class H cement on top of CIBP.

9/5/13 ? Pressure up on csg to 8500 psi for 30 min with no leak. Charted test.

10/14/13 ? RIH w/ guns. Perf Cisco Canyon 10383-10538, 105 holes, .41 hole size.

10/22 ? 25/13 ? Perf Cisco Canyon 10261-10349, 60 holes, .41 hole size. Acidize and frac Cisco

NM OIL CONSERVATION
ARTESIA DISTRICT

MAY 18 2015

RECEIVED

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

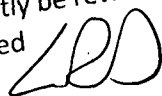
**Electronic Submission #298193 verified by the BLM Well Information System
For CIMAREX ENERGY COMPANY, sent to the Carlsbad**

Name (Printed/Typed) PAULA BRUNSON

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 04/14/2015

THIS SPACE FOR FEDERAL OR STATE OFFICIAL USEPending BLM approvals will
subsequently be reviewed
and scanned

Date

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

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 ****

Additional data for EC transaction #298193 that would not fit on the form

32. Additional remarks, continued

Canyon (10261-10538, 11,810 bbls fluid, 279,828 lbs sand). Perf Wolfcamp (9378-9877, .41 hole size, 174 holes). Acidize and frac Wolfcamp (9378-9877, 19,125 bbls fluid, 634,771 lbs sand).
10/26/13 ? Drill out plugs and CO to PBTD @ 11426. Flow back well.
10/30/13 ? RIH w/ 2-3/8 tbg & GLVs. Set @ 9293. Pressure to 3000 psi and shear tbg disc on pkr. Pressure dropped to 2500 psi. Pump an additional bbl of fluid. Turn to production. Wolfcamp and Cisco Canyon have been approved for comingle (DHC-4682).

See attached well bore diagram and OCD Order DHC-4682.



KB - 18' above GL

Cimarex Energy Co. of Colorado

Liberty 24 Federal Com #2

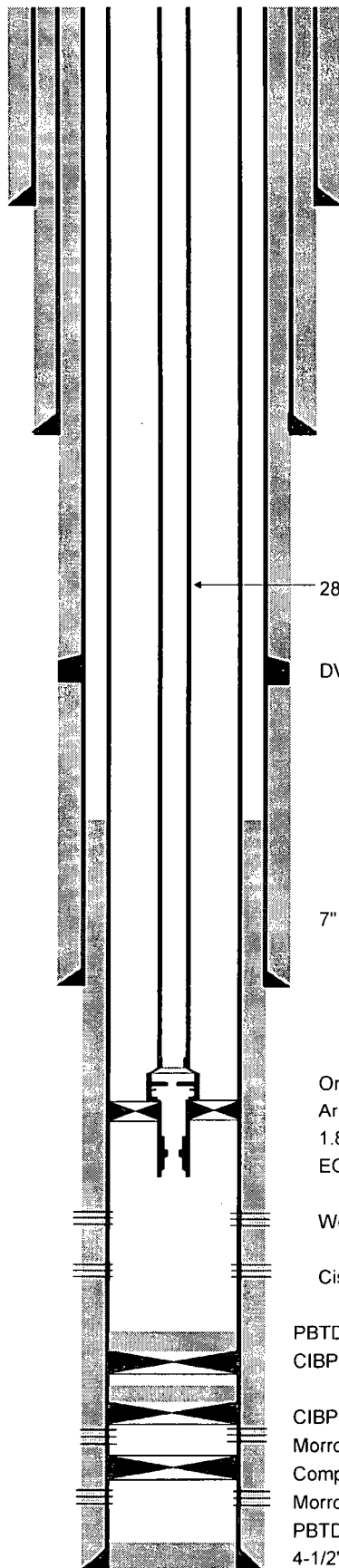
1475' FSL & 940' FWL

Sec. 24, T-25-S, R-26-E, Eddy Co., NM

H. Eads

11/26/2013

Gas Lift Valves @ 1845', 3253',
4462', 5412', 6134', 6791', 7448',
8104', 8695', 9253'



13-3/8", 54.5# J-55 csg @ 220'
cmtd w/ 250 sx, cmt circ

9-5/8", 40# P-100 & N-80 csg @ 1935'
cmtd w/ 650 sx, cmt circ

282 jts 2-3/8" 4.7# L-80 Tbg

DV Tool @ 4900'
cmtd w/ 615 sx, cmt circ

TOC @ 7446' by CBL

7" 23# P-110 @ 9016'
cmtd w/ 500 sx, cmt circ

On-off Tool w/ 1.875" X Profile Nipple
Arrowset pkr @ 9294'
1.875" XN Profile Nipple
EOT @ 9306'

Wolfcamp perms (9375' - 9877')

Cisco Canyon perms (10260' - 10538')

PBTD @ 11,426'
CIBP @ 11,461' w/ 35' cmt

CIBP @ 11,506' w/ 35' cmt
Morrow perms (11556' - 11746')
Composite BP @ 11800'
Morrow perms (11839' - 11956')

PBTD @ 12180'
4-1/2" 11.6# P-110 @ 12330' cmtd w/ 400 sx
TD @ 12330'

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



Administrative Order DHC-4682

Order Date: July 8, 2014

Application Reference Number: pMAM1404233826

Cimarex Energy Company of Colorado
600 N. Marienfeld, Suite 600
Midland Texas 79701

NM OIL CONSERVATION
ARTESTA DISTRICT

MAY 18 2015

Attention: David Catanach

RECEIVED

Liberty 24 Federal Well No. 2
API No. 30-015-33683
Unit L, Section 24, Township 25 South, Range 26 East, NMPM
Eddy County, New Mexico

Pool	SAGE DRAW; WOLFCAMP, EAST	Gas	96890
Names:	COTTONWOOD DRAW; UPPER PENN	Gas	97354

Reference is made to your recent application for an exception to 19.15.12.9A. NMAC of the Division Rules and Regulations to permit the above-described well to commingle production from the subject pools in the wellbore.

It appears that the subject well qualifies for approval for such exception pursuant to the provisions of 19.15.12.11A. NMAC, and since reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion or otherwise required separation of the zones is hereby placed in abeyance.

In accordance with 19.15.12.11A.(6) NMAC, the production attributed to any commingled pool within the well shall not exceed the allowable applicable to that pool.

As per the application, the assignment of allowable and allocation of production from the subject well shall be based on the production log that was conducted on the well.

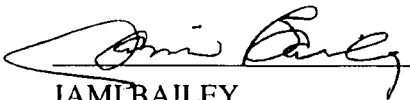
Assignment of allowable and allocation of production from the well shall be as follows:

SAGE DRAW; WOLFCAMP, EAST	Pct. Gas: 70	Pct. Oil: 71
COTTON DRAW; UPPER PENN	Pct. Gas: 30	Pct. Oil: 29

The production allocation percentages of oil and gas between these pools shall be supplied to the Division's Santa Fe office within 60 days following completion of this well or workover.

REMARKS: The operator shall notify the Division's district I office upon implementation of commingling operations.

Pursuant to 19.15.12.11B. NMAC, the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.



JAMI BAILEY
Director

JB/mam

cc: New Mexico Oil Conservation Division – Artesia
Bureau of Land Management - Carlsbad

NM OIL CONSERVATION ARTESIA DISTRICT

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 04 2015

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM96835

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

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

8. Lease Name and Well No.
LIBERTY 24 FEDERAL COM 2

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

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

9. API Well No.
30-015-33683

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 1475FSL 940FWL

At top prod interval reported below 1475FSL 940FWL

At total depth 1475FSL 940FWL

10. Field and Pool, or Exploratory
COTTONWOOD DRAW U. PENN / W Lamp

11. Sec., T., R., M., or Block and Survey
or Area Sec 24 T25S R26E Mer

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
03/17/2005

15. Date T.D. Reached
04/15/2005

16. Date Completed
☐ D & A ☒ Ready to Prod.
10/30/2013

17. Elevations (DF, KB, RT, GL)*
3227 GL

18. Total Depth: MD
TVD 12330

19. Plug Back T.D.: MD
TVD 11426

20. Depth Bridge Plug Set: MD
TVD 11461

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 Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 J55	54.5	0	220		250		0	
12.250	9.625 P100	40.0	0	1935		650		0	
8.750	7.000 P110	23.0	0	9016		500		0	
6.125	4.500 P110	11.6	0	12330		400		7446	

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	11466							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) CISCO CANYON	10261	10538	11556 TO 11956		186	ABANDONED.CIBP@11506 W/35'
B) WOLFCAMP	9378	9877	10261 TO 10538	0.410	165	OPEN
C)			9378 TO 9877	0.410	174	OPEN
D)						

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

Depth Interval	Amount and Type of Material
10261 TO 10538	11810 BBLs FLUID, 279828 LBS SAND
9378 TO 9877	19125 BBLs FLUID, 634771 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
11/06/2013	11/07/2013	24	→	25.0	183.0	412.0	55.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
12	1325	25.0	→	25	183	412	732	PGW	

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
11/06/2013	11/07/2013	24	→	61.0	427.0	1010.0	55.0	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
12	1325	25.0	→	61	427	1010	700	PGW

Pending BLM approvals will
subsequently be reviewed
and scanned

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

ELECTRONIC SUBMISSION #293515 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.)
CAPTURED

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
				WOLFCAMP CISCO CANYON STRAWN ATOKA MORROW	8593 10239 10454 10696 11362

32. Additional remarks (include plugging procedure):

Please see attachments:
Well Bore Diagram
C-102 Cisco Canyon
C-102 Wolfcamp
C-104 Cisco Canyon
C-104 Wolfcamp
OCD Order DHC-4682

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 #293515 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 03/02/2015

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 **