

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NMOCD
Artesia

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.
NMNM14468

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
SRM1173

8. Well Name and No.
GRYNBERG 11 FED COM 4

9. API Well No.
30-015-34197-00-S1

10. Field and Pool, or Exploratory
WHITE CITY

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CIMAREX ENERGY COMPANY OF CO
Contact: HOPE KNAULS
E-Mail: kknauls@cimarex.com

3a. Address
202 S CHEYENNE AVE SUITE 1000
TULSA, OK 74103.4346

3b. Phone No. (include area code)
Ph: 918.585.1100

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 11 T25S R26E NWNW 880FNL 1270FWL

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" 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 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 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 checked="" 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 recomple 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.)

Cimarex Energy Co. respectfully request approval to plug back the Grynberg 11 Federal Com #4 according the attached procedure

Cimarex proposes to abandon the Morrow and plugback to the Wolfcamp to the Cisco and will down hole commingle the Wolfcamp and Cisco upon NMOCD approval.

Rejected

Cimarex never responded to issues with low top of cement.

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 14 2016

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

Electronic Submission #298418 verified by the BLM Well Information System For CIMAREX ENERGY COMPANY OF CO, sent to the Carlsbad Committed to AFMSS for processing by JENNIFER SANCHEZ on 11/13/2015 (16JAS1101SE)

Name (Printed/Typed) HOPE KNAULS Title REGULATORY TECHNICIAN

Signature (Electronic Submission) Date 04/16/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By *[Signature]* Title 03/03/2016 Date

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.

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 ****

109

NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 14 2016

DISTRICT I
1625 N. FRANCIS DR., BORDEN, NM 86240

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II
1361 W. GRAND AVENUE, ARTESIA, NM 86210

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

DISTRICT III
1000 Rio Branson Rd., Azico, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-015-34197		Pool Code 87280	Pool Name White City; Penn (Gas)
Property Code 34059	Property Name GRYNBERG 11 FEDERAL COM		Well Number 4
OCRID No. 162683	Operator Name Cimarex Energy Company		Elevation 3360'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	11	25-S	26-E		880	NORTH	1270	WEST	EDDY

Bottom Hole Location if Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p align="center">OPERATOR CERTIFICATION</p> <p><i>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</i></p> <p align="center"><i>Hope Knauls</i> Signature</p> <p align="center">Hope Knauls Printed Name</p> <p align="center">hknauls@cimarex.com Title</p> <p align="center">4-15-2015 Date</p>
<p align="center">GEODETIC COORDINATES NAD 27 NME</p> <p align="center">Y=417943.3 N X=520267.4 E</p> <p align="center">LAT.=32°08'56.49" N LONG.=104°15'04.60" W</p>	

NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 14 2016

State of New Mexico

Energy, Minerals and Natural Resources Department

DISTRICT I

1625 N. FRENCH DR., UOODO, NM 88240

DISTRICT II

1801 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Grande Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

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Form C-102
Revised JUNE 10, 2003
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State Lease - 4 Copies
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WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

API Number 30-015-34197	Pool Code 96890	Pool Name Sage Draw, Wolfcamp, E (G)
Property Code 34059	Property Name GRYNBERG 11 FEDERAL COM	Well Number 4
OGRID No. 162683	Operator Name Cimarex Energy Company	Elevation 3360'

Surface Location

Ul. or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	11	25-S	26-E		880	NORTH	1270	WEST	EDDY

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<p>GEODETTIC COORDINATES NAD 27 NME</p> <p>Y=417943.3 N X=520237.4 E</p> <p>LAT.=32°08'56.49" N LONG.=104°15'04.60" W</p>	



Grynberg 11 Federal Com 4 Recomplete to Ciscamp

Well Data

KB	19' above GL
TD	12,081'
PBTD	11,516'
Casing	13-3/8" 48# H-40 @ 221'. Cmt'd w/ 230 sx, cmt circ. 9-5/8" 40# J-55 @ 2,675'. Cmt'd w/ 780 sx, cmt circ. 5-1/2" 17# P-110 @ 12,081'. Cmt'd w/ 2245 sx. DV @ 7,326'. TOC @ 8,980'.
Tubing	2-7/8" 6.5# L-80 8rd @ ± 11,190' (363 jts)
Packer	Halliburton 5-1/2" x 17# x 2-3/8" RTTS @ ± 11,190'
Prod. Perfs	Morrow (11,215' – 11,456')
Proposed Perfs	Wolfcamp (9,142' – 9,689') & Cisco Canyon (9,997' – 10,210')

Procedure

Notify BLM 24 hours prior to start of workover operations.

1. RU pump truck and pressure test casing to 1000# prior to MIRU.
2. MIRU pulling unit and kill well w/ FW as necessary. ND WH, NU BOP. Release Halliburton RTTS pkr and TOOH w/ tbg, stand back tbg.
*Contact office for go-forward procedure if unable to release pkr.
3. MIRU wireline and make gauge ring run to ± 11,180'. RIH w/ CIBP and set @ ± 11,165'. Pump 25 sx Class H* cmt on top of CIBP (est. TOC @ 10,930'). Allow cmt to set a **minimum of 8 hrs.** RIH and tag to confirm TOC and report to office, LD tbg. RU pump truck and test csg to **1500 psi**, chart recording the test. Continue to pressure test csg up to 8500 psi. ND BOP & NU 10K WH.
*NOTE: BLM requires Class H to be mixed 16.4 ppg, 1.06 cu ft/sk, 4.3 gal water/sk.

*See COA missing plug
(P&A of Morrow complete after steps.)*

4. NU 10K goat head frac valve. Perforate Stage 1 Cisco Canyon (10100' – 103', 10115' – 119', 10133' – 136', 10158' – 162', 10193' – 196', 10206' – 210') 3 SPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 63 shots. Depth reference Halliburton Spectral Density Dual Spaced Neutron Log dated December 19, 2005. RD wireline & RDMO pulling unit.

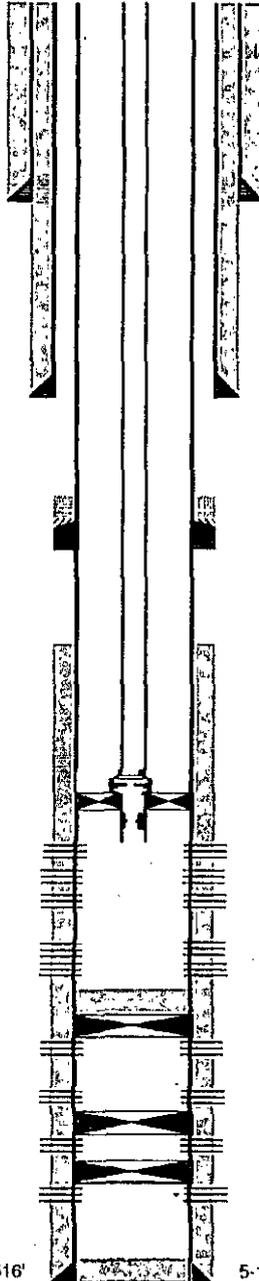
5. RU frac and flowback equipment. Acidize and frac Stage 1 Cisco Canyon perfs (9997' – 10212') down 5-1/2" csg w/ 2000 gals acid & 75,000 gals 15# linear gel followed by 156,250 gals slick water containing 75,000# 100 mesh & 150,000# 40/70 sand. Set 10K flow thru composite plug @ 10090' and test to 8000 psig.
6. Perforate Stage 2 Cisco Canyon (9997' – 10000', 10012' – 015', 10033' – 036', 10050' – 053', 10065' – 068', 10078' – 081') 3 SPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 54 shots. Depth reference Halliburton Spectral Density Dual Spaced Neutron Log dated December 19, 2005.
7. Acidize and frac Stage 2 Cisco Canyon perfs (9997' – 10081') down 5-1/2" csg w/ 2000 gals acid & 75,000 gals 15# linear gel followed by 156,250 gals slick water containing 75,000# 100 mesh & 150,000# 40/70 sand. Set 10K flow thru composite plug @ 9699' and test to 8000 psig.
8. Perforate Stage 3 Wolfcamp (9518' – 9520', 9538' – 9540', 9565' – 9567', 9594' – 9596', 9615' – 9618', 9639' – 9642', 9663' – 9666', 9686' – 9689') 3 SPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference Halliburton Spectral Density Dual Spaced Neutron Log dated December 19, 2005.
9. Acidize and frac Stage 3 Wolfcamp perfs (9518' – 9689') down 5-1/2" csg w/ 2000 gals acid & 75,000 gals 15# linear gel followed by 200,000 gals slick water containing 100,000# 100 mesh & 200,000# 40/70 sand. Set 10K flow through composite plug @ 9486' and test to 8000 psig.
10. Perforate Stage 4 Wolfcamp (9322' – 9324', 9357' – 9360', 9378' – 9381', 9392' – 9394', 9430' – 9433', 9452' – 9455', 9473' – 9476') 3 SPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 57 holes. Depth reference Halliburton Spectral Density Dual Spaced Neutron Log dated December 19, 2005.
11. Acidize and frac Stage 4 Wolfcamp perfs (9322' – 9476') down 5-1/2" csg w/ 2000 gals acid & 75,000 gals 15# linear gel followed by 200,000 gals slick water containing 100,000# 100 mesh & 200,000# 40/70 sand. Set 10K flow through composite plug @ 9297' and test to 8000 psig.
12. Perforate Stage 5 Wolfcamp (9142' – 9144', 9159' – 9162', 9176' – 9179', 9207' – 9210', 9226' – 9226', 9261' – 9264', 9284' – 9287') 3 SPF at 120 degree phasing w/ 3-1/8" casing guns. Total of 60 holes. Depth reference Halliburton Spectral Density Dual Spaced Neutron Log dated December 19, 2005.
13. Acidize and frac Stage 5 Wolfcamp perfs (9142' – 9287') down 5-1/2" w/ 2000 gals acid & 75,000 gals 15# linear gel followed by 200,000 gals slick water containing 100,000# 100 mesh & 200,000# 40/70 sand. RD frac.

14. MIRU 2" coiled tbg unit. TIH w/ 4-3/4" tri cone bit & extreme downhole motor on 2" CT and drill out sand and composite plugs @ 9297', 9486', 9699' & 10090'. Make a minimum of 2 gel sweeps while drilling out composite plugs. Clean out to PBTD @ \pm 10,930'. TOOH w/ tri cone bit, motor & CT. RDMO coiled tbg unit.
15. Flow back well for 24 hours, then SI well overnight.
16. RU wireline and full 10K lubricator. Make gauge ring run to \pm 9,100'. TIH w/ 10' 2-3/8" 4.7# L-80 tbg sub w/ 1.875" XN profile w/ pump out plug in place, 5-1/2" Arrowset 1X pkr & on-off tool stinger w/ 1.875" X profile. Set pkr @ \pm 9,100'. RD wireline and lubricator.
17. ND goat head and frac valve, and NU BOP. TIH w/ on-off tool retrieving head, GLVs and tbg, testing tubing below slips to 5000 psi, and latch on to pkr. ND BOP, NU WH. RDMO pulling unit.
18. RU pump truck and pump out plug. Put well on production.



PROPOSED WBD
KB - 19' above GL

Cimarex Energy Co. of Colorado
Grynberg 11 Federal Com 4
API #: 30-015-34197
880' FNL & 1270' FWL
Sec. 11, T25S, R26E, Eddy Co., NM
H. Hubbard 4/15/2015



13-3/8" 48# H-40 csg @ 221'
cmtd w/ 230 sx, Cmt circ.

9-5/8" 40# J-55 @ 2675'
cmtd w/ 780 sx, Cmt circ.

No CBL above 7100', questionable cmt 7100'-7200'

DV @ 7,327'

TOC @ 8,980' by CBL

Arrowset 1X pkr @ ± 9,100' & O/O tool w/ "X" nipple

Wolfcamp perms (9,142' - 9,287') *PROPOSED*
Wolfcamp perms (9,322' - 9,476') *PROPOSED*
Wolfcamp perms (9,518' - 9,689') *PROPOSED*

Cisco Canyon perms (9,997' - 10,081') *PROPOSED*
Cisco Canyon perms (10,100' - 10,210') *PROPOSED*

PBTD @ ± 10,930'
CIBP @ ± 11,165' w/ 25 sx cmt
Morrow perms (11,215'-222')

Morrow perms (11,398'-403' & 11,449'-456')
CIBP @ 11,516'
Morrow perms (11,530'-534')
CIBP @ 11,540'
Morrow perms (11,533'-550')

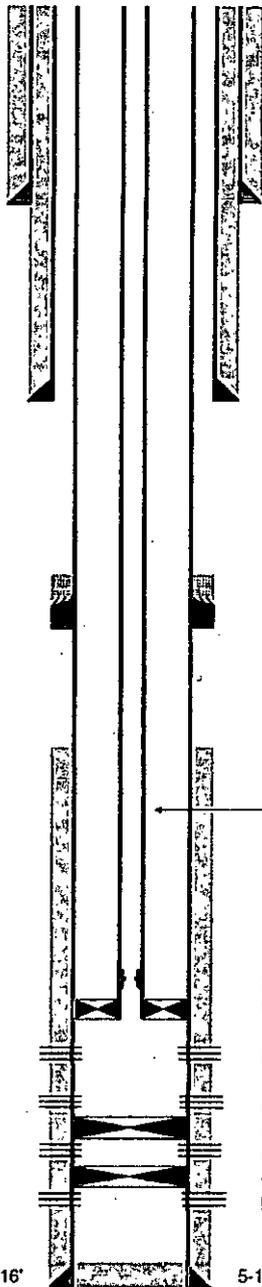
PBTD @ 11516'
TD @ 12081'

5-1/2" 17# P-110 csg @ 12081'
cmtd w/ 2245 sx



CURRENT
KB - 19' above GL

Cimarex Energy Co. of Colorado
Grynberg 11 Federal Com 4
API #: 30-015-34197
880' FNL & 1270' FWL
Sec. 11, T25S, R26E, Eddy Co., NM
H. Hubbard 4/15/2015



13-3/8" 48# H-40 csg @ 221'
cmtd w/ 230 sx, Cmt circ.

9-5/8" 40# J-55 @ 2675'
cmtd w/ 780 sx, Cmt circ.

No CBL above 7100', questionable cmt 7100'-7200'

DV @ 7,327'

TOC @ 8,980' by CBL

363 jts 2-7/8" 6.5# L-80 tbg

Baker "F" profile nipple @ 11,183'
Halliburton RTTS pkr @ 11,190'

Morrow perfs (11,215'-222')

Morrow perfs (11,398'-403' & 11,449'-456')

CIBP @ 11,516'

Morrow perfs (11,530'-534')

CIBP @ 11,540'

Morrow perfs (11,533'-550')

PBTD @ 11516'
TD @ 12081'

5-1/2" 17# P-110 csg @ 12081'
cmtd w/ 2245 sx