

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
**District III**  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**NM OIL CONSERVATION** Form C-101  
ARTESIA DISTRICT  
DEC 10 2014  
UNRECORDED REPORT  
**RECEIVED**

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Cimarex Energy Co. of Colorado 202 S. Cheyenne Ave, Suite 1000 Tulsa, OK 74103		<sup>2</sup> OGRID Number 162683
		<sup>3</sup> API Number 30-015-34256
<sup>4</sup> Property Code 300595	<sup>5</sup> Property Name Forni	<sup>6</sup> Well No. 4

**7. Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
G	15	22S	27E	G	1580	N	1980	E	Eddy

**8. Proposed Bottom Hole Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

**9. Pool Information**

<i>Carlsbad ; Strawn (Gas)</i>	Pool Name Wildcat Strawn	Pool Code 74040
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**Additional Well Information**

<sup>11</sup> Work Type Plugback	<sup>12</sup> Well Type Gas	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Private	<sup>15</sup> Ground Level Elevation 3076
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 12165	<sup>18</sup> Formation Strawn	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date When approved
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2	13 3/8	48	428	400	0
Intermediate	12 1/4	9 5/8	40	2653	1000	0
Production	8 1/2	5 1/2	17	12165	2680	5780' CBL

**Casing/Cement Program: Additional Comments**

Plugback procedure attached.

**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable. Signature: <i>Terri Stathem</i>		OIL CONSERVATION DIVISION	
Printed name: Terri Stathem		Approved By: <i>BR Dade</i>	
Title: Regulatory		Title: <i>Dist # Supervisor</i>	
E-mail Address: <a href="mailto:tstathem@cimarex.com">tstathem@cimarex.com</a>		Approved Date: <i>12/10/2014</i> Expiration Date:	
Date: 12/10/14	Phone: 432-620-1936	Conditions of Approval Attached	

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number <b>30015-34256</b>	<sup>2</sup> Pool Code <b>74040</b>	<sup>3</sup> Pool Name <b>Carlsbad; Strawn (gas)</b>
<sup>4</sup> Property Code <b>300595</b>	<sup>5</sup> Property Name <b>Forni</b>	<sup>6</sup> Well Number <b>4</b>
<sup>7</sup> OGRID No. <b>162683</b>	<sup>8</sup> Operator Name <b>Cimarex Energy of Colorado</b>	<sup>9</sup> Elevation <b>3076'</b>

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>G</b>	<b>15</b>	<b>22S</b>	<b>27E</b>		<b>1580</b>	<b>North</b>	<b>1980</b>	<b>East</b>	<b>Eddy</b>

<sup>11</sup> 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

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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><b><sup>17</sup> OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Terri Stathem</i> Date: <b>12/10/14</b></p> <p>Printed Name: <b>Terri Stathem</b></p> <p>E-mail Address: <b>tstathem@cimarex.com</b></p>
	<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey: <i>on file</i></p> <p>Signature and Seal of Professional Surveyor:</p>
	<p>Certificate Number</p>

**NM OIL CONSERVATION**  
ARTESIA DISTRICT  
DEC 10 2014

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# Forni #4

## Morrow & Strawn Recompletion Procedure

API #: 30-015-34256  
Property #: 309588-234.01  
1580' FNL & 1980' FEL, Sec15, T22S, R27E  
Eddy County, New Mexico

### Well Data:

KB	32' above GL
TD	12165'
PBTD	11770' CIBP & 11860' CIBP
Casing	13-3/8" 48# H-40 @ 428'. Cmtd w/ 400 sx. Cmt circ. 9-5/8" 40# N-80 @ 2653'. Cmtd w/ 1000 sx. Cmt circ. 5-1/2" 17# P-110 @ 12162'. Cmtd w/ 1230 sx. DV Tool @ 8512'. Cmtd w/ 1450 sx. TOC @ 5780' by CBL.
Capacity	2-3/8" tbg = 0.00386 bbl/ft and 46.066 ft/ft3, ID = 1.995" 5-1/2" csg = 0.02324 bbl/ft and 7.661 ft/ft3, ID = 4.892 Annulus = 0.0177 bbl/ft
Packer	Versaset @ 11496'. 1.81' F Profile Nipple @ 11490'
Perforations	Morrow (11,535' - 11,563 & 11,707' - 11,714') <b>Proposed Strawn: (10,520' - 10,532') (13')</b>

### Procedure:

1. Pressure test casing to 500 psi.
2. MIRU pulling unit w swab line. Kill well w/ 2% KCl wtr. ND WH, NU BOP. Release Versaset pkr @ 11,496' and TOOH w/ pkr and stand back 2-3/8" 4.7# L-80 tbg.
3. RU WL. RIH w/ 4-3/4" GR/JB to 11,700' to ensure hole is clean. TIH on WL w/ 5-1/2" 10k CIBP and set @  $\pm$  11,500'.
4. Dump bail 3 sx (20') cmt on CIBP, WOC. Load hole w/ 2% KCl & pressure test to 400 #.
5. Perforate Strawn (10,520' - 32') 3 JSPF w/ 4" casing guns and premium charges. Total of 39 holes. Depth Reference log Schlumberger Platform Express Three Detector Litho-density Compensated Neutron/HNGS Log dated November 16, 2005. RD WL.
6. TIH w/ pkr on 2-3/8" tbg and set pkr @  $\pm$  10,500'.

*zone will be temporarily plugged*

7. RU acid company and acidize Strawn perms (10,520' -32') w/ 3,000 gals 15% HCl utilizing 58 7/8" ball sealers at 3 BPM down tubing. Max treating pressure 4,500 psi Flush w/ 2% KCl wtr.
8. Swab/Flow test zone and report results.
9. RIH w/ pkr & attached Lufkin gas lift design on 2-3/8" tbg.
10. ND BOP, NU WH, RDMO PU. Return well to production.



CURRENT WBD

KB - 32' above GL

Cimarex Energy Co. of Colorado

Forni #4

1580' FNL & 1980' FEL

Sec. 15, T-22-S, R-27-E, Eddy Co., NM

S. Gengler 06/18/2012

DP 9-20-13

13-3/8", 48# H-40 csg @ 428'  
cmtd w/ 400 sx, cmt circ

9-5/8", 40# N-80 csg @ 2653'  
cmtd w/ 1000 sx, cmt circ

TOC @ 5780' by CBL

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

DV Tool @ 8512'  
cmtd w/ 1450 sx

On-off Tool w/ 1.81" F Profile Nipple @ 11490'  
Halliburton Versaset pkr @ 11496'  
2-3/8" WL entry guide

Morrow perfs (11535' - 11714')

CIBP @ 11,770'  
Morrow perfs (11792' - 11960')

CIBP @ 11,860'  
PBSD @ 12,160'  
5-1/2" 17# P-110 @ 12162' cmtd w/ 1230 sx, cmt circ  
TD @ 12165'



FUTURE WBD

KB - 32' above GL

Cimarex Energy Co. of Colorado

Forni #4

1580' FNL & 1980' FEL

Sec. 15, T-22-S, R-27-E, Eddy Co., NM

W. Kelly 11/14/14

13-3/8", 48# H-40 csg @ 428'  
cmt'd w/ 400 sx, cmt circ

9-5/8", 40# N-80 csg @ 2653'  
cmt'd w/ 1000 sx, cmt circ

TOC @ 5780' by CBL

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

DV Tool @ 8512'  
cmt'd w/ 1450 sx

Strawn (10,520' - 10,532') w/ 3 JSPF for 39 holes

On-off Tool w/ 1.81" F Profile Nipple @ 11490'  
Halliburton Versaset pkr @ 11496'  
2-3/8" WL entry guide

Morrow perms (11535' - 11714')

CIBP @ 11,770'  
Morrow perms (11792' - 11960')

CIBP @ 11,860'  
PBDT @ 12,160'  
5-1/2" 17# P-110 @ 12162' cmt'd w/ 1230 sx, cmt circ  
TD @ 12165'