

## District I

1625 N. French Dr., Hobbs, NM 88240

## District II

1301 W. Grand Avenue, Artesia, NM 88210

## District III

1000 Rio Brazos Road, Aztec, NM 87410

## District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

SEP 18 2009

Form C-101

May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT**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 600 N. Marienfeld, Ste. 600 Midland, TX 79701		<sup>2</sup> OGRID Number 162683
		<sup>3</sup> API Number 30-015-22985
<sup>4</sup> Property Code	<sup>5</sup> Property Name State 25 Com	<sup>6</sup> Well No. 001
<sup>9</sup> Proposed Pool 1 Parkway; Strawn (existing)		<sup>10</sup> Proposed Pool 2 Wolfcamp Wildcat

<sup>7</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
K	25	19S	29E		1980	South	2130	West	Eddy

<sup>8</sup> Proposed 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

## Additional Well Information

<sup>11</sup> Work Type Code A	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3339' GR
<sup>16</sup> Multiple Y	<sup>17</sup> Proposed Depth 12040'	<sup>18</sup> Formation WC & Strawn	<sup>19</sup> Contractor N/A	<sup>20</sup> Spud Date When Approved
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
<sup>Pit</sup> Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: _____ Closed-Loop System <input checked="" type="checkbox"/> Flowback Tanks Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
15"	11 3/4"	42#	412'	400	Surface (existing)
11"	8 5/8"	24 & 28#	4000'	500	Surface (existing)
7 7/8"	4 1/2"	11.6 & 13.5#	12040'	285	7010' TS (existing)

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

Well currently producing from the Strawn with perfs at 10564-732.' There is a CIBP at 11330' w/ 35' cmt. Morrow at 11392-864.'

Cimarex proposes to NU 5K BOP, release pkr and TOH w/ tbg and pkr, set RBP @ 10740' and acidize Strawn with w/ 4500 gal 15% DI NeFe. Swab back load and evaluate. Move RBP to 10440.' Perf Wolfcamp 9768-9790' 4 spf, 90° phasing, 89 holes. Acidize Wolfcamp with 4500 gal 15% DI NeFe acid and 170 ball sealers. Produce Wolfcamp flush production while waiting for DHC approval from Santa Fe. Remove RBP over Strawn to DHC. Turn to sales as DHC Wolfcamp/Strawn oil well. See attached procedure.

<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 the drilling pit will be constructed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Signature: Natalie Krueger  
Printed name: Natalie Krueger

Title: Regulatory

E-mail Address: nkrueger@cimarex.com

Date: September 15, 2009

Phone: 469-420-2723

## OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: 9/30/09

Expiration Date: 9/30/2011

Conditions of Approval Attached ☐

**STATE 25 COM #1  
RECOMPLETE TO WOLFCAMP**

API # 30-015-22985  
1980' FSL & 2310' FWL  
Section 25, 19S, R-29E  
Eddy County, New Mexico

GL : 3339' KB : 3355'  
TD : 12040' PBTD: 11295' (CIBP W/ 35' CMT)  
SURF CSG : 11-3/4" OD 42#/FT H-40 AT 412' TOC 0' (TOPPED)  
INTER CSG: 8-5/8" OD 24/28 #/FT K-55/S-80 @ 3200' TOC 0' (CIRC)  
PROD CSG : 4-1/2" OD 11.5/13.5# S-95/N-80/K55 @ 12040' W/ 1085 SX TOC 7010' (TS)  
NOTE: SEE WBD FOR BREAKDOWN 11.6#/FT SURF-9989' 13.5#/FT TO TD  
TUBING: 2-3/8" N-80 W/ GUIBERSON UNI-V PKR A 10446'  
PERFS: STRAWN 10564-732'; CIBP AT 11330' W/ 35' CMT; MORROW 11392-864'

**NOTE TO FOREMAN: PLEASE DO NOT BEGIN FACILITY CONSTRUCTION OR ARTIFICIAL LIFT INSTALLATION UNTIL WELL IS TESTED IN STEP 5.**

1. PREPARE C-101 TO RECOMPLETE TO WOLFCAMP AND SUBMIT TO STATE. RIG UP SLICKLINE AND RUN GAUGE RING. OBTAIN 72 HOUR SIBHP FROM STRAWN PERFS. REPORT TO MIDLAND ENGINEERING FOR USE IN DETERMINING STEP 3.
2. MIRU PU. ND WELLHEAD AND NU BOPS. RELEASE PACKER AND TOH WITH TUBING AND PACKER. LD PACKER.
3. RIW W/ 3 3/4" BIT & 4 1/2" 13.5# CASING SCRAPER ON 2 3/8" L-80 TBG TO 10900 ft +/-, POOW W/ 2 3/8" TBG, 4 1/2" CSG SCRAPER & 3 3/4" BIT. RU TBG TESTERS. RIW W/ 4 1/2" 13.5-11.6# PKR-RBP, 2 3/8" SN & 2 3/8" TBG TESTING TBG TO 8000 PSIG BELOW THE SLIPS. SET THE RBP BELOW THE BTM STRAWN PERF. SET THE PKR 75 FT +/- ABOVE THE STRAWN PERFS.
4. RU RISING STAR ACIDIZERS. ACIDIZE THE STRAWN PERFS 10564-10732 W/ 4500 GALLONS 15% DI NEFE AT 4-6 BPM, USING OUR RATE TO DIVERT THE ACID. MAX PSIG-4500 PSIG(DEPENDS ON FLUID LEVEL). SWAB BACK ACID LOAD & RECORD STABLE FL & OIL CUTS.
5. MOVE RBP TO 10440 FT +/-, SET RBP & TEST TO 2500 PSIG. CIRCULATE WELL W/ 160 BBLS 2% KCL WATER. POOW W/ 2 3/8" TBG & 4 1/2" PKR.
6. RIG UP WIRELINE. RUN GR/CCL/CBL FROM PBTD TO 6500' OR TOC - WHICHEVER COMES FIRST. 0 PRESSURE ON FIRST PASS, 500 PSI ON MAIN PASS.
7. PERFORATE **WOLFCAMP 9768-9790'** (4 SPF, 90 DEG PHASING, TOTAL FOOTAGE 22, 89 HOLES). MONITOR FLUID LEVEL IN AND OUT OF HOLE.
8. DROP BALL CATCHER FOR 4 1/2" CSG. RIH W/ 4 1/2" TREATING PKR-BC RETRIEVING TOOL,SN AND TUBING TO 9700'. SET PKR @ 9650 FT +/-, TEST ANNULUS TO 500 PSIG. ACIDIZE WOLFCAMP PERFORATIONS WITH 4500 GAL 15% DI NEFE ACID AND 170 BALL SEALERS. MAX BREAKDOWN PRESSURE 6500 PSI, MAX RATE 5 BPM. SWAB/FLOW BACK LOAD.
9. IF WELL FLOWS, RECORD FLOWING PRESSURE DATA AND LFLOW FOR A FEW DAYS TO MONITOR VOLUMES & PRESSURE'S. RU PT. SOFT KILL WOLFCAMP W/ 2% KCL WATER. RIW & LATCH INTO BALL CATCHER. POOW W/ 2 3/8" TBG, 4 1/2" PKR-BALL CATCHER. RIW W/ 4 1/2" AS-IX PKR W/ 1.78 X NIPPLE OR F NIPPLE/ON/OFF TOOL TO 9700 FT+/-, SET PKR & SPACE OUT TBG. ND BOPS AND NU WELLHEAD. RDMO PULLING UNIT. NOTE: IF WELL

WILL NOT FLOW, RELEASE PACKER (AND RBP IF STRAWN TO BE COMMINGLED). TOH  
W/ TUBING AND PACKER.

10. RIH W/ TUBING CONFIGURED FOR PUMPING. INSTALL RODS AND PUMP BASED ON  
ESTIMATED FLUID PRODUCTION DURING SWAB TESTING. ND BOPS AND NU  
WELLHEAD. RDMO.
11. SET PUMPING UNIT AND BEGIN PRODUCING. AFTER LOAD RECOVERY, OBTAIN WATER  
ANALYSIS AND REVIEW FOR SCALE. IF SCALING TENDENCIES HIGH, DESIGN SCALE  
SQUEEZE AND EXECUTE.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, 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 Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-015-22985	<sup>2</sup> Pool Code 49630	<sup>3</sup> Pool Name Parkway; Strawn
<sup>4</sup> Property Code 23086	<sup>5</sup> Property Name State 25 Com	<sup>6</sup> Well Number 001
<sup>7</sup> GRID No. 162683	<sup>8</sup> Operator Name CIMAREX ENERGY CO. OF COLORADO	<sup>9</sup> Elevation 3339' GL

**<sup>10</sup> Surface Location**

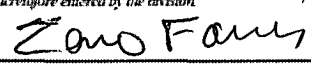
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	25	19S	29E		1980	South	2130	West	Eddy

**<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 160	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code C	<sup>15</sup> Order No. NSL-1182, DHC Pending
--------------------------------------	-------------------------------	---------------------------------------	--

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.

16				<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.  Signature _____ Date 9/15/2009 Printed Name Zeno Farris
				<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. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____

L0-3529-0003

LG-2244-0004

*MC*

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
**District II**  
1301 W. Grand Avenue, 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 Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number 30-015-22985	<sup>2</sup> Pool Code 49637	<sup>3</sup> Pool Name Parkway ; Wolfcamp Wildcat
<sup>4</sup> Property Code 23086	<sup>5</sup> Property Name State 25 Com	
<sup>6</sup> OGRID No. 162683	<sup>7</sup> Operator Name CIMAREX ENERGY CO. OF COLORADO	<sup>8</sup> Well Number 001
		<sup>9</sup> Elevation 3339' GL

**<sup>10</sup> Surface Location**

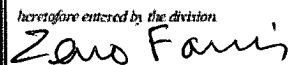
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	25	19S	29E		1980	South	2130	West	Eddy

**<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 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. DHC Pending
-------------------------------------	-------------------------------	----------------------------------	--

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.

16				<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.  Signature _____ Date 9/15/2009 Printed Name Zeno Farris
				<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. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____