

5215 N. O'Connor Blvd  
Suite 1500  
Irving, TX 75039  
972-401-3111 (phone)  
972-443-6486 (fax)

RECEIVED

.....  
Cimarex Energy Co. of Colorado  
2008 DEC 18 11:22

December 17, 2008

New Mexico Oil Conservation Division  
1220 S. St. Francis Dr.  
Santa Fe, NM 87505  
Attn: Mr. Will V. Jones

RE: Glenwood 28 Federal Com No. 4  
30-015-36327  
C-107-A – Application for Downhole Commingling – Wolfcamp (Oil) & Abo (Oil)

Dear Mr. Jones,

Enclosed is an original Form C-107-A (Application for Downhole Commingling) for the well mentioned above.

This well was completed in the Strawn in July 2008 with open perfs @ 9506-9562.' A CIBP and 8' cement cover unproductive Strawn perfs from 9570'-9630.'

Cimarex proposes to re-enter, set a CIBP @ 9450' w/ 35' cement (plugging Strawn), and perf and acidize Wolfcamp 7800'-7806.' We will obtain a flow/swab test to establish a rate. Then, set a RBP @ 7300' and perfs and acidize Abo 7104'-7138.' Obtain flow/swab test to establish a rate. Then, the RBP between the zones will be removed and the well will be DHC. Our allocation percentage will be based on flow/swab test rates for each zone.

It is anticipated that the reservoir pressure from these two zones will be compatible and the resulting volumes would not warrant a casing/tubing dual completion.

All royalty, overriding royalty, and working interest owners are identical in the two zones, and will not be harmed by an Abo/Wolfcamp commingling.

If you have any questions or need further information, please call me at 972-443-6489.

Sincerely,

*Zeno Farris*

Zeno Farris  
Mgr Operations Administration

zfarris@cimarex.com  
.....

ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



UHK  
 API-30015-36327  
 Glenwood Federal  
 "28" Com #4  
 Cimarex 162683

**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR
- [D] Other: Specify \_\_\_\_\_
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or  Does Not Apply
- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

<u>Zeno Farris</u>	<u>Zeno Farris</u>	<u>Mgr Operations Admin</u>	<u>12/17/08</u>
Print or Type Name	Signature	Title	Date
		<u>zfarris@cimarex.com</u>	
		e-mail Address	

District I'  
1625 N. French Drive, 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 Department

Form C-107A  
Revised June 10, 2003

**Oil Conservation Division**

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

APPLICATION TYPE

Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

Yes  No

**APPLICATION FOR DOWNHOLE COMMINGLING**

Operator Cimarex Energy Co. of Colorado Address 5215 N. O'Connor Blvd., Suite 1500; Irving, TX 75039

Lease Glenwood 28 Federal Com Well No. 004 Unit Letter-Section-Township-Range A-28-16S-29E County Eddy

OGRID No. 162683 Property Code \_\_\_\_\_ API No. 30-015-36327 Lease Type:  Federal  State  Fee \_\_\_\_\_

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<u>Wildcat</u> <u>County Line Tank, Abo oil</u>		<u>Wolfcamp Wildcat (Oil)</u>
Pool Code	<u>97197</u>		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	<u>7104'-7138'</u>		<u>7800'-7806'</u>
Method of Production (Flowing or Artificial Lift)	<u>Artificial Lift</u>		
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	<u>Within 150% of bottom perfs</u>		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	<u>42.2, 1.371</u>		<u>Est</u>
Producing, Shut-In or New Zone	<u>New Zone</u>		<u>New Zone</u>
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.)	Date: <u>To be supplied</u> Rates: _____	Date: _____ Rates: _____	Date: <u>To be supplied</u> Rates: _____
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil _____ Gas _____	Oil _____ Gas _____	Oil _____ Gas _____

**ADDITIONAL DATA**

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes  No \_\_\_\_\_  
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes \_\_\_\_\_ No \_\_\_\_\_

Are all produced fluids from all commingled zones compatible with each other? Yes  No \_\_\_\_\_

Will commingling decrease the value of production? Yes \_\_\_\_\_ No

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes \_\_\_\_\_ No \_\_\_\_\_

NMOCD Reference Case No. applicable to this well: \_\_\_\_\_

**Attachments:**

- C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- Production curve for each zone for at least one year. (If not available, attach explanation.)
- For zones with no production history, estimated production rates and supporting data.
- Data to support allocation method or formula.
- Notification list of working, royalty and overriding royalty interests for uncommon interest cases.
- Any additional statements, data or documents required to support commingling.

**PRE-APPROVED POOLS**

If application is to establish Pre-Approved Pools, the following additional information will be required:

- List of other orders approving downhole commingling within the proposed Pre-Approved Pools
- List of all operators within the proposed Pre-Approved Pools
- Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.
- Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Zeno Farris TITLE Manager Operations Administration DATE December 17, 2008

TYPE OR PRINT NAME Zeno Farris TELEPHONE NO. (972) 443-6489

E-MAIL ADDRESS zfarris@cimarex.com

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1501 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 and Natural Resources Department

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36327	Pool Code <del>97197</del>	Pool Name <del>County Line Tank; Abo</del>
Property Code	Property Name GLENWOOD "28" FEDERAL COM	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3642'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	16 S	29 E		760	NORTH	960	EAST	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 40	Joint or Infill	Consolidation Code	Order No.						

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>SURFACE LOCATION</b></p> <p>Lot - N32°53'52.10" 3640.9' 3647.6'</p> <p>Long - W104°04'27.74"</p> <p>NMSPCE- N 690459.760</p> <p>E 620820.601</p> <p>(NAD-83)</p>		<p><b>OPERATOR CERTIFICATION</b></p> <p><i>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 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.</i></p> <p><u>Zeno Farris</u> 12-17-08 Signature Date</p> <p>Zeno Farris Printed Name</p>
										<p><b>SURVEYOR CERTIFICATION</b></p> <p><i>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.</i></p> <p>MARCH 24, 2008 Date Surveyed</p> <p><u>Gary L. Jones</u> Signature &amp; Seal Professional Surveyor</p>		
										<p>Certificate No. Gary L. Jones 7977</p>		
										<p>BASIN SURVEYS</p>		

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II  
1501 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 87506

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised October 12, 2005

Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36327	Pool Code	Pool Name Wolfcamp Wildcat (Oil)
Property Code	Property Name GLENWOOD "28" FEDERAL COM	Well Number 4
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3642'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	16 S	29 E		760	NORTH	960	EAST	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 40	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><b>SURFACE LOCATION</b>          Lat - N32°53'52.10"          Long - W104°04'27.74"          NMSPC - N 690459.760          E 620820.601          (NAD-83)</p>		<p><b>OPERATOR CERTIFICATION</b></p> <p>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 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><i>Zeno Farris</i> 12-17-08          Signature Date</p> <p>Zeno Farris          Printed Name</p>
						<p><b>SURVEYOR CERTIFICATION</b></p> <p>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>MARCH 24, 2008          Date Surveyed</p> <p>GARY L. JONES          Signature &amp; Seal          Professional Surveyor</p>		
						<p>Certificate No. Gary L. Jones 7977</p>		
						<p>BASIN SURVEYS</p>		

## Jones, William V., EMNRD

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**From:** Natalie Krueger [nkrueger@cimarex.com]  
**Sent:** Monday, December 22, 2008 7:36 AM  
**To:** Jones, William V., EMNRD  
**Subject:** FW: FedEx Shipment 796195294442 Delivered

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**From:** Natalie Krueger  
**Sent:** Monday, December 22, 2008 8:15 AM  
**To:** 'will.jones@state.nm.us'  
**Subject:** FW: FedEx Shipment 796195294442 Delivered

Hi Will,

Last week we sent in a C-107A for the Glenwood 28 Fed Com 4. We said we would provide proof that we had sent it to the BLM for notification, but I forgot to include the copy of the fedex label in the C-107A package. Here is the tracking update from Fedex showing that it was delivered to the BLM. I hope this satisfies the requirement.

Sorry for the delay.

Thanks,  
Natalie Krueger  
Cimarex Energy Co.  
469-420-2723

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**From:** TrackingUpdates@fedex.com [mailto:TrackingUpdates@fedex.com]  
**Sent:** Thursday, December 18, 2008 1:34 PM  
**To:** Natalie Krueger  
**Subject:** FedEx Shipment 796195294442 Delivered

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This tracking update has been requested by:

Company Name: Cimarex Energy Co.

Name: Natalie Krueger

E-mail: [nkrueger@cimarex.com](mailto:nkrueger@cimarex.com)

Message: 31605 Vern 1 1 SR PB, NOI RC; 31605 Ppl b5f2 & d5fc1 OLM; 31605 Glenwood 28 4 NOI PB, RC & copy of C107A; AdmDefReply Ma

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Our records indicate that the following shipment has been delivered:

Ship (P/U) date: Dec 17, 2008  
Delivery date: Dec 18, 2008 12:31 PM  
Sign for by: J.HUGHES  
Delivered to: Receptionist/Front Desk  
Service type: FedEx Priority Overnight

Packaging type: FedEx Pak  
Number of pieces: 1  
Weight: 1.00 lb.  
Special handling/Services: Deliver Weekday  
Tracking number: 796195294442

Shipper Information	Recipient Information
Natalie Krueger	Betty Hill
Cimarex Energy Co.	Bureau of Land Management
600 East Las Colineas Blvd Ste 1100	620 East Greene Street
Irving	Carlsbad
TX	NM
US	US
75039	88220

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