

DATE <u>10/10/08</u>	SUSPENSE	ENGINEER <u>W Jones</u>	LOGGED IN <u>10/10/08</u>	TYPE <u>DHC</u>	APP NO. <u>PKVRO828345820</u>
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



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 _____

RECEIVED
 2008 OCT 9 AM 8 29

[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.

Natalie Krueger	<u>Natalie Krueger</u>	Regulatory Analyst	10/6/08
Print or Type Name	Signature	Title	Date
		<u>nkrueger@cimarex.com</u>	
		e-mail Address	

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

RECEIVED

Cimarex Energy Co. of Colorado 8 28

October 6, 2008

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

RE: Juno 27 Federal Com No. 2
27-16S-29E - 30-015-36114
C-107 A - Application for Downhole Commingling - Atoka/Morrow

Dear Mr. Jones,

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

This well was permitted for a Morrow test, but in evaluating logs before production casing was run, the geologist discovered potential Atoka production as well.

Morrow perfs were added in 04-08 and the Morrow was flow-tested from 04-11-08 to 05-09-08. A RBP was set over the Morrow on 05-09-08 and the Atoka was perfed. Atoka was turned over to production once the sales line was installed on 07-18-08. The RBP over the Morrow was removed and replaced with a tubing sliding sleeve, which will be opened for DHC.

Cimarex would like to determine the percentage split by subtracting the current Atoka volumes from the total downhole commingled volume once the sliding sleeve is opened. The resulting volumes will be submitted to the OCD and the BLM via Sundry Notice after DHC has occurred.

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 Atoka/Morrow commingling.

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

Sincerely,



Zeno Farris
Mgr Operations Administration

C.C. BLM CFO

zfarris@cimarex.com

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District I
1625 N. French Drive, Hobbs, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

District II
1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division

APPLICATION TYPE

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
 Yes No

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

Juno 27 Federal Com 002 E-27-16S-29E Eddy
Lease Well No. Unit Letter-Section-Township-Range County

DHC-4109

OGRID No. 162683 Property Code API No. 30-015-36114 Lease Type: Federal State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	<i>Wildcat</i> Atoka Wildcat		<i>Wildcat</i> Henshaw; Morrow, SW (Gas)
Pool Code			97149
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10080'-10109'		10406'-10452'
Method of Production (Flowing or Artificial Lift)	Flowing		
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)	Within 150% of bottom perfs		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	52, 1.126		48, 1.030
Producing, Shut-In or New Zone	New Zone		SI behind sliding sleeve
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: 10-02-08 Rates: 23/3/2560	Date: Rates:	Date: Rates: to be supplied
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 October 6, 2008

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

E-MAIL ADDRESS zfarris@cimarex.com

	Oil Production	Water Production	Hrs Flow	Gas Production
	Bbl.	Bbl.		Mcf/D
7/18/2008	47	0	24	1493
7/19/2008	50	0	24	3310
7/20/2008	73	0	24	3572
7/21/2008	70	0	24	3828
7/22/2008	60	0	15	3731
7/23/2008	50	0	24	2278
7/24/2008	80	10	24	3671
7/25/2008	72	0	24	3695
7/26/2008	57	0	24	3560
7/27/2008	60	0	24	3455
7/28/2008	62	10	24	3346
7/29/2008	20	0	24	3249
7/30/2008	40	20	16	876
7/31/2008	40	30	24	2899
8/1/2008	87	10	24	3202
8/2/2008	58	0	24	3224
8/3/2008	45	3	24	3094
8/4/2008	40	2	24	3004
8/5/2008	53	0	24	2945
8/6/2008	57	0	24	2895
8/7/2008	60	0	24	2851
8/8/2008	80	0	24	471
8/9/2008	37	0	24	2183
8/10/2008	38	0	24	3154
8/11/2008	30	0	24	2935
8/12/2008	35	0	24	2855
8/13/2008	40	0	24	2829
8/14/2008	42	0	24	2790
8/15/2008	40	0	24	2773
8/16/2008	40	5	24	2770
8/17/2008	57	10	24	2763
8/18/2008	40	0	24	2757
8/19/2008	40	3	24	2745
8/20/2008	40	3	24	2729
8/21/2008	40	2	24	2710
8/22/2008	58	0	24	2697
8/23/2008	5	0	24	2689
8/24/2008	12	0	24	2685
8/25/2008	39	12	24	2673
8/26/2008	39	10	24	2665
8/27/2008	44	5	24	2654
8/28/2008	40	5	24	2664
8/29/2008	40	5	24	2695
8/30/2008	33	15	24	2665
8/31/2008	39	8	24	2684
9/1/2008	40	3	24	2706
9/2/2008	41	8	24	2605
9/3/2008	0	0	24	2664
9/4/2008	0	0	24	1691
9/5/2008	58	0	24	1876
9/6/2008	30	0	24	1461
9/7/2008	35	0	24	36
9/8/2008	13	30	24	1808
9/9/2008	12	5	24	2897
9/10/2008	23	5	24	2705
9/11/2008	30	7	24	2676
9/12/2008	50	13	24	2707
9/13/2008	29	5	18	1948
9/14/2008	35	3	24	2964
9/15/2008	80	42	24	3199
9/16/2008	62	45	24	3416
9/17/2008	52	25	24	3304
9/18/2008	61	20	24	3279
9/19/2008	11	20	24	3324
9/20/2008	84	20	24	3241
9/21/2008	50	20	24	3186
9/22/2008	44	25	24	3134
9/23/2008	40	20	24	3108
9/24/2008	63	15	24	3109
9/25/2008	40	20	24	3094
9/26/2008	38	20	24	3071
9/27/2008	40	20	24	3050
9/28/2008	30	10	24	2994
9/29/2008	43	10	24	2912
9/30/2008	45	10	24	2783
10/1/2008	8	3	24	2652
10/2/2008	23	3	24	2560

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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 30-015-36114	Pool Code	Pool Name Henshaw; Morrow, SW (Gas)
Property Code	Property Name JUNO "27" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3654'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	16 S	29 E		1980	NORTH	660	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 P	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>OPERATOR CERTIFICATION</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><i>Natalie Krueger</i> 10-06-08 Signature Date</p> <p>Natalie Krueger Printed Name</p>
	<p>SURVEYOR CERTIFICATION</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>NOVEMBER 3, 2007 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature Professional Surveyor</p> <p></p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>

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State of New Mexico
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Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-36114	Pool Code	Pool Name Atoka Wildcat
Property Code	Property Name JUNO "27" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3654'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	16 S	29 E		1980	NORTH	660	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 P	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>OPERATOR CERTIFICATION</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>Natalie Krueger</i> 10-03-08 Signature Date</p> <p>Natalie Krueger Printed Name</p>
	<p>SURVEYOR CERTIFICATION</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>NOVEMBER 3, 2007 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature Professional Surveyor 7977</p> <p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>

.....

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

Cimarex Energy Co. of Colorado

October 3, 2008

United States Department of the Interior
Bureau of Land Management
620 East Greene Street
Carlsbad, NM 88220
Attn: Ms. Betty Hill

Re: 3160-4 Juno 27 Fed Com 2 – Atoka and Morrow completions
30-015-36114
Eddy County, NM

Dear Ms. Hill:

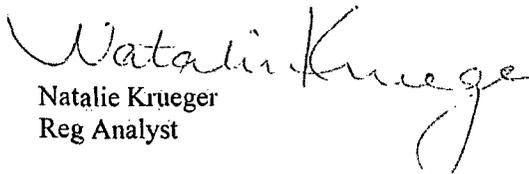
Enclosed are 2 completion reports for the Juno 27 Fed Com 2 well in Eddy County, NM. One is for the Morrow, which was completed first in 04-08. After Morrow was flowtested from 04-13-08 to 04-22-08, a RBP was placed over it on 05-09-08 at 10300' w/ 1 sx sand in order to test the Atoka.

The Atoka was completed on 07-18-08. Cimarex decided to produce the Atoka for a few months in order to assess it in relation to the Morrow, thinking of a possible Atoka/Morrow DHC. Once the Atoka was completed, the RBP was removed and a sliding sleeve was installed as part of the tubing assembly @ 10043.' That sliding sleeve protects the Morrow until the DHC has been applied for and is granted.

So, in a nutshell, the only completion currently producing at this time is the Atoka. We hope to produce both as DHC as soon as we get the necessary permission from the State of NM and the BLM.

If you need anything else, please call me at 469-420-2723.

Sincerely,


Natalie Krueger
Reg Analyst

nkrueger@cimarex.com

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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. **NM-12128**

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. **Pending**

8. Lease Name and Well No. **Jun0 27 Federal Com No. 2**

9. API Well No. **30-015-36114**

10. Field and Pool, or Exploratory **Atoka Wildcat**

11. Sec., T., R., M., on Block and Survey or Area **27-16S-29E**

12. County or Parish **Eddy** 13. State **NM**

14. Date Spudded **02.11.08** 15. Date T.D. Reached **03.10.08** 16. Date Completed **07.18.08**
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)* **3654' GR**

18. Total Depth: MD **10648'** 19. Plug Back TD: **10300' (RBP @ 10300')** 20. Depth Bridge Plug Set: MD **10300' (RBP w/ 1 sx sand)**
 TVD TVD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
Nuc, Res, CBL

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit report)
 Directional Survey No Yes (Submit copy)

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 1/2"	13 3/4"	48	0'	376'		350 PPHL, PP		0'	
12 1/4"	9 5/8"	40	0'	2653'		900 sx IntC, PP		0'	
8 3/4"	7"	26	0'	10648'		1340 sx IntH, PSSH		190'	

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 7/8"	10356'	10341'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Atoka	9950'	10325'	10080' - 10109'	0.43	91	Open
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material

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 BTU	Production Method
07.18.08	08.09.08	24	→	37	2183	0	52	1.126	Producing
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	SI 1900	3300	900 →				59,000	Producing	

28. Production - Interval B

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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

* (See instructions and spaces for additional data on page 2)

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. St	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. St	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.)

Sold

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
				Grayburg	2050'
				San Andres	2500'
				Abo	5950'
				Wolfcamp	7270'
				U. Strawn S.S.	9570'
				Atoka Clastics	9950'
				Morrow Clastics	10325'

32. Additional remarks (include plugging procedure):

Atoka producing, but Morrow is also completed and behind a sliding sleeve @ 10043.' DHC application is forthcoming. During Atoka completion operations, Morrow was protected under a RBP @ 10300' w/ 1 sx sand.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Natalie Krueger Title Regulatory Analyst
 Signature Natalie Krueger Date October 3, 2008

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 CIMAREX ENERGY CO.
WELL/LEASE JUNO 27 FED. 2
COUNTY EDDY

075-0062

STATE OF NEW MEXICO
DEVIATION REPORT

680	0.50
996	1.00
1,494	0.50
1,985	0.75
2,577	1.00
3,011	0.50
3,366	1.25
3,611	1.00
4,100	1.00
4,608	2.00
5,021	2.00
5,785	0.50
6,069	2.50
6,440	1.75
6,510	3.00
6,691	2.00
7,008	1.75
7,169	1.00
7,421	1.75
7,614	1.75
7,867	0.75
8,090	0.25
8,979	0.75
9,377	0.75
9,837	1.00
10,180	1.00
10,648	1.00

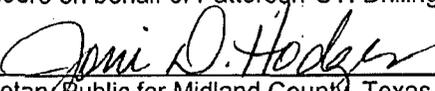
BY 

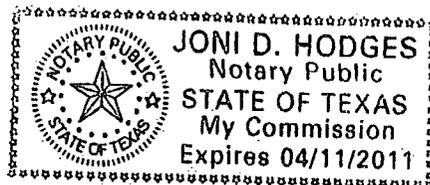
STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on
Moore on behalf of Patterson-UTI Drilling Company LLC.

March 31, 2008 , by Steve


Notary Public for Midland County, Texas
My Commission Expires: 4/11/11



DISTRICT I
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State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2006

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 30-015-36114	Pool Code	Pool Name Atoka Wildcat
Property Code	Property Name JUNO "27" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3654'

Surface Location

Ul. or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	16 S	29 E		1980	NORTH	660	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 P	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>OPERATOR CERTIFICATION</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>Natalie Krueger</u> 10-03-08 Signature Date</p> <p>Natalie Krueger Printed Name</p>
	<p>SURFACE LOCATION</p> <p>Lot - N32°53'40.10" Long - W104°04'08.74" NMSPC - N 689244.4 E 622443.4 (NAD-83)</p>
<p>NOVEMBER 3, 2007</p> <p>Date Surveyed</p> <p><u>Gary L. Jones</u> Signature Professional Surveyor</p> <p></p>	
<p>Certificate No. Gary L. Jones 7977</p> <p>BASIN SURVEYS</p>	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NM-12128

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

2. Name of Operator
Cimarex Energy Co. of Colorado

7. Unit or CA Agreement Name and No.
Pending

3. Address
PO Box 140907; Irving, TX 75014

3a. Phone No. (include area code)
972-443-6489

8. Lease Name and Well No.
Juno 27 Federal Com No. 2

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

At surface 1980 FNL & 660 FWL

At top prod. interval reported below

At total depth

9. API Well No.
30-015-36114

10. Field and Pool, or Exploratory
Henshaw; Morrow, Southwest (Gas)

11. Sec., T., R., M., on Block and
Survey or Area
27-16S-29E

12. County or Parish
Eddy

13. State
NM

14. Date Spudded
02.11.08

15. Date T.D. Reached
03.10.08

16. Date Completed 04.13.08
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3654' GR

18. Total Depth: MD 10648'
TVD

19. Plug Back TD: 10574'
TD

20. Depth Bridge Plug Set: MD 10300' (RBP w/ 1 sx sand)
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Nuc, Res, CBL

22. Was well cored? No Yes (Submit analysis)

Was DST run? No Yes (Submit report)

Directional Survey No Yes (Submit copy)

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 1/2"	13 3/4"	48	0'	376'		350 PPHL, PP		0'	
12 1/2"	9 1/2"	40	0'	2653'		900 sx IntC, PP		0'	
8 3/4"	7"	26	0'	10648'		1340 sx IntH, PBSH		190'	

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 7/8"	10356'	10341'						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	10325'	10450'	10406' - 10452'	0.43	255	SI under Sliding Sleeve
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
10406' - 10452'	5000 gal 7 1/2% NaFe, flush w/ 7% KCl
10406' - 10452'	28380 gal 35# Water Frac CMHPG, 3950 gal Methanol, 175.2 tons CO ₂ , 97000# Versaprop

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
04.13.08	04.22.08	24	→	11	2225	13	48	1.030	Flow test
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
20/64	920	900	→				202,272	Morrow currently SI behind sliding sleeve	

28. Production - Interval B

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.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
SI			→						

* (See instructions and spaces for additional data on page 2)

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.)

Flared

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
				Grayburg	2050'
				San Andres	2500'
				Abo	5950'
				Wolfcamp	7270'
				U. Strawn S.S.	9570'
				Atoka Clastics	9950'
				Morrow Clastics	10325'

32. Additional remarks (include plugging procedure):

Morrow currently SI behind sliding sleeve @ 10043'...RBP was installed on 05-09-08 @ 10300' w/ 1 sx sand above the Morrow so Atoka could be tested. RBP switched out for sliding sleeve on 05-23-08 so Atoka could produce. Currently producing Atoka and will apply to DHC Atoka and Morrow. Morrow only produced 04-13-08 to 04-22-08.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Natalie Krueger Title Regulatory Analyst
 Signature Natalie Krueger Date October 3, 2008

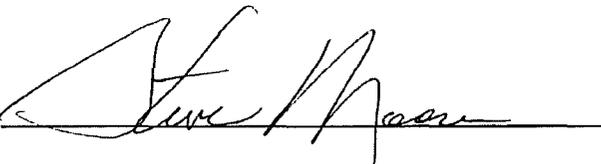
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR CIMAREX ENERGY CO.
WELL/LEASE JUNO 27 FED. 2
COUNTY EDDY

075-0062

STATE OF NEW MEXICO
DEVIATION REPORT

680	0.50
996	1.00
1,494	0.50
1,985	0.75
2,577	1.00
3,011	0.50
3,366	1.25
3,611	1.00
4,100	1.00
4,608	2.00
5,021	2.00
5,785	0.50
6,069	2.50
6,440	1.75
6,510	3.00
6,691	2.00
7,008	1.75
7,169	1.00
7,421	1.75
7,614	1.75
7,867	0.75
8,090	0.25
8,979	0.75
9,377	0.75
9,837	1.00
10,180	1.00
10,648	1.00

BY: 

STATE OF TEXAS

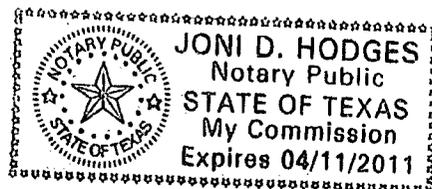
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on

March 31, 2008, by Steve

Moore on behalf of Patterson-UTI Drilling Company LLC.


Notary Public for Midland County, Texas
My Commission Expires: 4/11/11



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

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Drazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87503

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2006

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 30-015-36114	Pool Code	Pool Name Henshaw; Morrow, SW (Gas)
Property Code	Property Name JUNO "27" FEDERAL COM	Well Number 2
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3654'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	27	16 S	29 E		1980	NORTH	660	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 P	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>NM-97874</p>	<p>OPERATOR CERTIFICATION</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>Natalie Krueger</i> 10-03-08 Signature Date</p> <p>Natalie Krueger Printed Name</p>
	<p>SURVEYOR CERTIFICATION</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>NOVEMBER 3, 2007 Date Surveyed</p> <p><i>Gary L. Jones</i> Signature Professional Surveyor</p> <p></p>	
	<p>Certificate No. Gary L. Jones 7977</p>	
	<p>NM-12128</p> <p>BASIN SURVEYS</p>	

District I
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1000 Rio Brazos Rd., Aztec, NM 87410
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised June 10, 2003

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

Submit to Appropriate District Office
5 Copies

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado PO Box 140907 Irving, TX 75014		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW / 07-18-08
⁴ API Number 30-015-36114	⁵ Pool Name Atoka Wildcat	⁶ Pool Code
⁷ Property Code	⁸ Property Name Juno 27 Federal Com	⁹ Well Number 002

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	27	16S	29E		1980	North	660	West	Eddy

¹¹ Bottom Hole Location

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

¹² Lse Code	¹³ Producing Method Code F	¹⁴ Gas Connection Date 07-18-08	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 POD	²¹ O/G	²² POD ULSTR Location and Description
36785	DCP Midstream, LP 370 17 th St, Ste 2500 Denver, CO		G	Same
21778	Sunoco Inc R&M PO Box 2039 Tulsa, OK		O	Same

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description Same as above
-------------------	---

V. Well Completion Data

²⁵ Spud Date 02-11-08	²⁶ Ready Date 07-18-08	²⁷ TD 10648'	²⁸ PBTD 10574'	²⁹ Perforations 10080'-10109'	³⁰ DHC, MC MC (Morrow currently behind sliding sleeve)
³¹ Hole Size	³² Casing & Tubing Size	³³ Depth Set	³⁴ Sacks Cement		
17½"	13¾"	376'	350 sx		
12¼"	9¾"	2653'	900 sx		
8¾"	7"	10648'	1340 sx, TOC 190' CBL		
	2⅞"	10356'			

VI. Well Test Data

³⁵ Date New Oil 07-18-08	³⁶ Gas Delivery Date 07-18-08	³⁷ Test Date 08-09-08	³⁸ Test Length 24 hrs	³⁹ Tbg. Pressure 1900	⁴⁰ Csg. Pressure 900
⁴¹ Choke Size 20/64	⁴² Oil	⁴³ Water 0	⁴⁴ Gas 2183	⁴⁵ AOF	⁴⁶ Test Method Flowing

⁴⁷ 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: *Natalie Krueger*

Printed name: Natalie Krueger

Title: Regulatory Analyst

E-mail Address: nkrueger@cimarex.com

Date: October 3, 2008 Phone: 469-420-2723

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

District I
1625 N. French Dr., Hobbs, NM 88240
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1301 W. Grand Avenue, Artesia, NM 88210
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1000 Rio Brazos Rd., Aztec, NM 87410
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State of New Mexico
Energy, Minerals & Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-104
Revised June 10, 2003

Submit to Appropriate District Office
5 Copies

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Cimarex Energy Co. of Colorado PO Box 140907 Irving, TX 75014		² OGRID Number 162683
		³ Reason for Filing Code/ Effective Date NW / 04-13-08
⁴ API Number 30-015-36114	⁵ Pool Name Henshaw; Morrow, SW (Gas)	⁶ Pool Code
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UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
E	27	16S	29E		1980	North	660	West	Eddy

¹¹ Bottom Hole Location

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

¹² Use Code	¹³ Producing Method Code	¹⁴ Gas Connection Date	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 POD	²¹ O/G	²² POD ULSTR Location and Description
36785	DCP Midstream, LP 370 17 th St, Ste 2500 Denver, CO		G	Same
21778	Sunoco Inc R&M PO Box 2039 Tulsa, OK		O	Same

IV. Produced Water

²³ POD	²⁴ POD ULSTR Location and Description Same as above
-------------------	---

V. Well Completion Data

²⁵ Spud Date	²⁶ Ready Date	²⁷ TD	²⁸ PBTB	²⁹ Perforations	³⁰ DHC, MC
02-11-08		10648'	10574'	10406'-10452'	MC (Morrow currently behind sliding sleeve)
³¹ Hole Size		³² Casing & Tubing Size	³³ Depth Set		³⁴ Sacks Cement
17½"		13¾"	376'		350 sx
12¾"		9¾"	2653'		900 sx
8¾"		7"	10648'		1340 sx, TOC 190' CBL
		2¾"	10356'		

VI. Well Test Data

³⁵ Date New Oil	³⁶ Gas Delivery Date	³⁷ Test Date	³⁸ Test Length	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
04-13-08	Flared	04-22-08	24 hrs	920	900
⁴¹ Choke Size	⁴² Oil	⁴³ Water	⁴⁴ Gas	⁴⁵ AOF	⁴⁶ Test Method
20/64	11	13	2225		Flow test

⁴⁷ 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: *Natalie Krueger*
Printed name: Natalie Krueger
Title: Regulatory Analyst
E-mail Address: nkrueger@cimarex.com
Date: October 3, 2008 Phone: 469-420-2723

OIL CONSERVATION DIVISION
Approved by:
Title:
Approval Date: