# NEW MEXICO OIL CONSERVATION DIVISION - Engineering Division

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



	ADMINISTRATIVE APPL	ICATION CHECKLIST	
THIS CHECKLIST IS M.	ANDATORY FOR ALL ADMINISTRATIVE APPLICAT WHICH REQUIRE PROCESSING AT TH		AND REGULATIONS
[DHC-Dowi	s: ndard Location] [NSP-Non-Standard P nhole Commingling] [CTB-Lease Cor	roration Unit] [SD-Simultaneous Demmingling] [PLC-Pool/Lease Comm torage] [OLM-Off-Lease Measurem Pressure Maintenance Expansion]	ningling]
[EOR-Qual	lified Enhanced Oil Recovery Certifica		sponse]
[1] <b>TYPE OF AP</b> [A]	PPLICATION - Check Those Which Ap Location - Spacing Unit - Simultaneou NSL NSP SD		200
Check [B]	One Only for [B] or [C]  Commingling - Storage - Measuremer  DHC CTB PLC	nt ⊠ PC □ OLS □ OLM	MEGEIV
[C]	Injection - Disposal - Pressure Increas  WFX PMX SWD		programme
[D]	Other: Specify		E D 29
[2] NOTIFICAT: [A]	ION REQUIRED TO: - Check Those Working, Royalty or Overriding	—	
[B]	Offset Operators, Leaseholders o	r Surface Owner	
[C]	Application is One Which Requi	res Published Legal Notice	
[D]	Notification and/or Concurrent A U.S. Bureau of Land Management - Commissioner	approval by BLM or SLO of Public Lands, State Land Office	
[E]	For all of the above, Proof of Nor	tification or Publication is Attached, a	nd/or,
[F]	Waivers are Attached		
	CURATE AND COMPLETE INFOR ATION INDICATED ABOVE.	RMATION REQUIRED TO PROC	ESS THE TYPE
approval is accurate a	<b>TION:</b> I hereby certify that the informand <b>complete</b> to the best of my knowledguired information and notifications are	ge. I also understand that no action w	
Note	Statement must be completed by an individua	al with managerial and/or supervisory capac	ity.
Natalie Krueger Print or Type Name	Watali Kuoo	Regulatory Analyst Title	10/6/08 Date
		nkrueger@cimarex.com e-mail Address	

RECEIVED

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

# Cimarex Energy Co. of Colorado<sup>8</sup> <sup>28</sup>

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

Zeno Four

C.C. BLM CFO

zfarris@cimarex.com

# District I

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

TYPE OR PRINT NAME\_\_\_\_

E-MAIL ADDRESS zfarris@cimarex.com

Zeno Farris

# State of New Mexico

Energy, Minerals and Natural Resources Department

**Oil Conservation Division** 

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

APPLICATION TYPE X\_Single Well Establish Pre-Approved Pools EXISTING WELLBORE X Yes No

Form C-107A Revised June 10, 2003

### APPLICATION FOR DOWNHOLE COMMINGLING

			<del>_</del>	
Cimarex Energy Co. of Colorado	o 5215 N. C	Connor Blvd., Suite 1500; Irv	ing <del>, TX</del> 75039	
Operator	Ad	Idress (77-168-29F)	4109	
Juno 27 Federal Com	002 E-:	27-16S-29E (VI)	Eddy	
Lease	Well No. Unit Letter	-Section-Township-Range	County	
OGRID No. 162683 Property Co	odeAPI No	30-015-36114 Lease Type:	X Federal State	Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
Pool Name W)	Dol Atoka Wildeat	(	Henshatw; Morrow, SW (Gas)	
Pool Code			97-149	_
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	Date: 10-02-08	Date:	Date:	
estimates and supporting data.)	Rates: 23/3/2560	Rates:	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	
	ADDIT	ΓΙΟΝΑL DATA		_
Are all working, royalty and overriding If not, have all working, royalty and over			YesXNo YesNo	
Are all produced fluids from all commit	ngled zones compatible with each	other?	Yes X No	
Will commingling decrease the value of	f production?		Yes No X	
If this well is on, or communitized with or the United States Bureau of Land Ma			YesXNo	
NMOCD Reference Case No. applicabl	e to this well:			
Attachments:  C-102 for each zone to be comming Production curve for each zone for a For zones with no production history Data to support allocation method on Notification list of working, royalty Any additional statements, data or design to the comments of the comming of the comments	at least one year. (If not available, y, estimated production rates and sor formula.  and overriding royalty interests for	attach explanation.) supporting data. or uncommon interest cases.		
	PRE-API	PROVED POOLS		_
If application	n is to establish Pre-Approved Poo	ols, the following additional information	on will be required:	
List of other orders approving downhold List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	l Pre-Approved Pools	•		
hereby certify that the information	above is true and complete to	the best of my knowledge and beli	ief.	
SIGNATURE Z LUO (	Faus TITLE_	Manager Operations Administrat	tion DATE October 6, 200	8

\_\_\_\_\_TELEPHONE NO. (972) 443-6489

	Oil Production	Water Production		Gas Production
	Bbl.	Bbl.	Hrs Flow	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 7/22/2008	70 60	0	24 15	3828 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 8/2/2008	87 58	10	24 24	3202 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 8/17/2008	40 57	5 10	2424	2770 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 8/31/2008	33 39	15 8	24 24	2665 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 7	24	2705
9/11/2008 9/12/2008	30 50	13	24 24	2676 2707
9/13/2008	29	5	18	
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 9/26/2008	40 38	20 20	24	3094
9/27/2008	40	20	24 24	3071 3050
9/28/2008	30	10	24	2994
9/29/2008	43	10	24	2912
9/30/2008				
0,00,200	45	10	24	2783
10/1/2008		10 3	24 24	2783 2652

DISTRICT I 1625 N. French Dr., Hobbs, NM 86240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 86210

1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT III

DISTRICT IV

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 12, 2005

Submit to Appropriate District Office

### OIL CONSERVATION DIVISION

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

☐ AMENDED REPORT

State Lease - 4 Copies

Fee Lease - 3 Copies

### WELL LOCATION AND ACREAGE DEDICATION PLAT

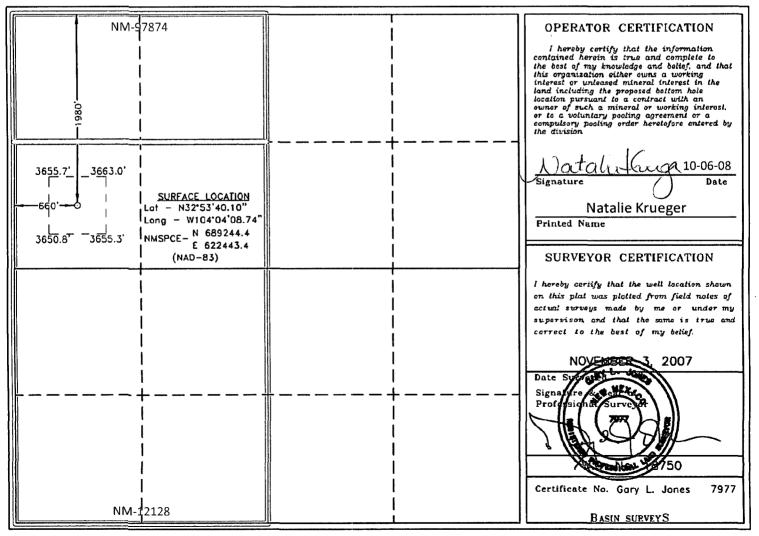
API Number	Pool Code	Pool Name				
30-015-36114		Henshaw; Morrow, SW (Gas)				
Property Code	Property JUNO "27" FE		Well Number 2			
OGRID No. 162683	Operator CIMAREX ENERGY C		Elevation 3654			

### Surface Location [III. or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | Fast/West line | County |

	E	27	16 S	29 E	age Iui	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 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



DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT III

DISTRICT IV

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

C AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	ode Pool Name			
30-015-36114		Atoka Wildcat			
Property Code	Property	Property Name			
	JUNO "27" F	EDERAL COM	2		
OGRID No.	Operato	r Name	Elcvation		
162683	CIMAREX ENERGY (	CO. OF COLORADO	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
	Ε	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 Joint or Infill Consolidation Code Order No. 320 P

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

UR A NUN-STANI	DARD UNIT HAS BEEN APPROVED BY THE	DIVISION
NM-97874		OPERATOR CERTIFICATION  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 beltom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a computsory pooling order heretofore entered by the division.
3655.7'3663.0'  SURFACE LOCATION Lat - N32*53'40.10" Long - W104'04'08.74" NMSPCE - N 689244.4 E 622443.4 (NAD-83)		Signature Date  Natalie Krueger  Printed Name  SURVEYOR CERTIFICATION  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 supervison, and that the same is true and correct to the best of my belief.  NOVERSE 3 2007  Date Symptomic Surveyor
NM-12128		Certificate No. Gary L. Jones 7977  BASIN SURVEYS

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,

Matguin Knieger Natalie Krueger Reg Analyst

nkrueger@cimarex.com

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

Lease Serial No.

### WELL COMPLETION OR RECOMPLETION REPORT AND LOG

											NN	1-12128		
la. Type o	f Well	***********	X Gas Well New Well	Dry Work Ov	er Oth	er Deepen	Plug B	ack	Diff. I	Resvr.	6. If Ir	dian, Allo	ittee or Tr	ribe Name
	•		Other									t or CA A	greement	Name and No.
	of Operator rex Energy Co.	of Colorad	lo								8. Lea	se Name a		
3. Addres	ss ox 140907; Irvi	ng TX 750	14				3a. Phone 1	No. (incli 43-6489	ide area co	de)	9. API	Well No. 015-361		111 NO. 2
	on of Well (Repo			accordance	with Federal	requiremen		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10 Fiel	d and Poo	l, or Expl	oratory
At sur	face		198	D FNL & 660	D FWL							ka Wildo ., T., R., M		ock and
Atton	prod. interval rep	orted below									ŀ	vey or Are ·16S-29E		
At top	prod. Interval rep	ortea pelow									12. Cot	inty or Par		13. State
At tota	al depth			<u>.</u>							Ede	dy		NM
	. Date Spudded 15. Date T.D. Reached 16. Date Completed 07.18.0 02.11.08 03.10.08 16. Date Completed 07.18.0									vations (D 54' GR	f, RKB, I	RT, GL)*		
18. Total I	Depth: MD	10648'	19. Plug	Back TD:	103	300' (RBP	@ 10300"	20.	Depth Brid	ige Plug S	iet: MD	103	00' (RBP	w/1 sx sand)
	TVI				TD						TV	<u>D</u>		
21. Type I	Electric & Other I	∕lechanical L	ogs Run (Sul	omit copy of e	each)			22.	Was well	cored?	X No	=	(Submit a	•
									Was DST		X No		(Submit r	- 1
	Res, CBL g and Liner Recor	d /Domant	all strings se	t in mall)					Directiona	l Survey	<u> </u>	No	Yes	(Submit copy)
Hole Size	Size/Grade	Wt. (#/ft.)	<del></del>	<del></del>	om (MD)	Stage C			of Sks. &		ту Vol.	Cemen	t Top*	Amount Pulled
17½"	13%"	48	0'		376'	De	pth	350 PPH	of Cement	-	BBL)	C		
12¼"	9%"	40	0'	2	2653'			900 sx li	ntC, PP			C	)'	
8¾"	7"	26	0'	1	0648'			1340 sx	IntH, PBSI	Ч		19	10'	
			_		···					<del> </del>	<del></del>			
	g Record					<b></b>						·		
Size 2½"	Depth Set (MI 10356'		Depth (MD) 0341'	Si	ze	Depth S	et (MD)	Packe	r Depth (M	1D)	Size	Depth S	et (MD)	Packer Depth (MD)
25. Produ	cing Intervals					26. Perfora	tion Record				_			
	Formation		Тор		tom	I	erforated Int			Size	_1	Holes		Perf. Status
A) B)	Atoka		9950'	103	325'	10	080° - 10	109'		0.43		91		Open
C) D)			\underset											
27. Acid, Depth I	Fracture, Treatm	ent, Cement	Squeeze, etc.				Amount and	Type of	Material					
Dopin	INCI VAI		<u></u>				iniount une							
28. Produ	Interval A													
Date First	Test Date		Test	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Con. API	Gas Gra	vity Pro	duction Me	thod		
Produced	00 00 00	ı	Production	27	2183	0	52	<b>)</b>	втt 1.12	- 1	odusi			
07.18.08 Choke	08.09.08 Tbg. Press.	24 Csg. Press.	24 Hr.	37 Oil BBL	Gas MCF	Water	Gas/Oil Ra		Well State		oducing			
Size	Flwg. 1900		Rate			BBL								
20/64 28. Produ	SI 3300 iction - Interval E	900		<u> </u>	I		59,0	NU U	Producii	15				
Date First	Test Date		Test	Oil BBL	Gas MCF	Water BBI	Oil Gravity	Corr. API	Gas Gravit	y Pro	duction Me	thod:		
Produced			Production											
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Re	tio	Well Stati	us				
	SI		$\longrightarrow$	1			[							

<sup>\* (</sup>See instructions and spaces for additional data on page 2)

28b.	Produ	ction - Inter	val 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/Qil Ratio	Well Status		
28c.	Produ	ction - Inter	val D			<u> </u>					
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.	Dispo	sition of Ga	s (Sold, usea	for fuel, ver	ited, etc.)						
s	old										
30.	Sumi	nary of Poro	us Zones (In	clude Aquife	ers):				31. For	nation (Log) Markers	
		ling depth in						all drill-stem test in pressures and	s,		
	Forma	tion	Тор	Bottom		Descrip	tions, Cont	ents, etc.		Name	Top Meas. Depth
									Grayburg San Andr Abo Wolfcam U. Strawr Atoka Cla Morrow (	es p · . n S.S. ıştics	2050' 2500' 5950' 7270' 9570' 9950' 10325'
32.	Atol	ka produc		orrow is a	ilso compl			sliding sleeve BP @ 10300' w		DHC application is fort	hcoming. During
33.	Indic	ate which it	ems have bee	en attached b	y placing a c	heck in the	appropriate	bóxes:	······································		
	_		chanical Log e for pluggin		=	=	Geologic Re	_ =	OST Report [	Directional Survey	
34.	I her	eby certify t	hat the foreg	oing and atta	ched inform	ation is com	plete and co	prrect as determin	ed from all avai	lable records (see attached i	nstructions)*
Ì	Name (	please print)		Nata	lie Krueger	•	Title		Re	gulatory Analyst	
:	Signatu	rk	octa	Li K	me	Cr.	Date		(	October 3, 2008	
			and Title 43 fraudulent sta						Ifully to make to	any department or agency of t	he United

OPERATOR WELL/LEASE

CIMAREX ENERGY CO.

JUNO 27 FED. 2

COUNTY EDDY

## STATE OF NEW MEXICO DEVIATION REPORT

	DEVIATION NEI	
	0.50	
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	

STATE OF TEXAS

**COUNTY OF MIDLAND** 

The foregoing instrument was acknowledged before me on

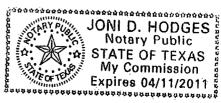
Moore on behalf of Patterson-UTI Drilling Company LLC.

Notary Public for Midland County, Texas

My Commission Expires: 4/11/11

March 31, 2008

, bÿ Steve



DISTRICT I
1625 N. French Dr., Hobbs, NM 89240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 86210
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT IV

320

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

C AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Cade	Pool Cade Pool Name			
30-015-36114		Atoka Wildca	t		
Property Code	•	FEDERAL COM	Well Number		
OGRID No. 162683	•	ator Name CO. OF COLORADO	Elevation 3654		

#### Surface Location

Ul. or lot No.	Section	Township	Range	North/South line	Feet from the	East/West line	County				
Ε	27	16 S	16 S 29 E 1980 NORTH 660 WEST								
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		
	<u> </u>										

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

Ρ

	DAND ONLI HAS BEEN APPROVED BY TH	57
3655.7'3663.0'   SURFACE LOCATION   Long - W1G4*04*08.74"   NMSPCE - N 689244.4   E 622443.4 (NAD-83)		OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and billef, and that this organization either ewas a working interest or unleased mineral interest in the land including the proposed bottom hold location pursuant to a centract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a computsory pooling order heretofare entered by the division  On the content of the content of the computation of the content of the computation of the content of the computation of the computation of the computation of the computation of the content o
NM-12128		Certificate No. Gary L. Jones 7977  BASIN SURVEYS

Form 3160-4 (April 2004)

#### 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

		'	WELL (	COMPLET	ION OR R	ECOMPLI	ETION R	EPORT /	AND LC	)G		1	se Serial N I-12128	ło.		
	e of Well [			X Gas Well New Well	Dry Work O	Oth	er Deepen	Plug B	ack	Diff. R	esvr.	6, If In	dian, Allo	ottee or Tr	ibe Name	
2. Nai	ne of Operator			Other								7. Unit or CA Agreement Name and No. Pending				
	Cimarex Energy Co. of Colorado												e Name a			
	Iress Box 140907	; Irving	g, TX 750	014				3a. Phone 972-4	No. (incli 43-6489	ude area cod	le)	9. API	Well No. 015-361			
	ation of Well (				accordance	with Federal	requiremer	ıts)*					d and Poo		oratory Southwest (Gas)	
At:	surface			198	0 FNL & 66	0 FWL						<u> </u>	, T., R., M			
Atı	At top prod. interval reported below												rey or Are 165-29E			
		ш. гер	55.57									12. Cou	nty or Par	ish	13. State	
	At total depth         4. Date Spudded         15. Date T.D. Reached         16. Date Completed         04.13.08												y ations (D		NM PT GIN*	
14. Dai	02.11.08		15. Date	1.D. Reache	03.10.08		10.	Dale Comp		Ready to P			4' GR	r, KKD, I	KI, GL).	
18. Tot	8. Total Depth: MD 10648' 19. Plug Back TD: 10574' 20. Depth Bridge													00' (RBP	w/ 1 sx sand)	
	<del>-</del>	TVD	_		<del>.</del> .	TD						TVI				
21. Тур	e Electric & O	ther Me	chanical I	Logs Run (Su	bmit copy of	each)			22.	Was well c		X No		(Submit a (Submit re	• •	
Nie	c. Res. CBL									Was DST r Directional			No Tes		eport) (Submit copy)	
	ing and Liner I	Record	(Report	all strings se	et in well)					Directional	Survey		INU	1163	(Завин сору)	
Hole Siz	<del>-                                    </del>	T	Wt. (#/ft.	) Top (M	D) Bott	om (MD)	_	Cementer opth		of Sks. & of Cement		ırry Vol. (BBL)	Cemen	t Top*	Amount Pulled	
17%"	13%"		48	0,		376'	100	spin .	350 PPF			(BDL)		)'		
12¼" 8¾"	9%"		40	0'		2653'			900 sx li			0' 190'				
874	+		26	-   "		0648'		-	1540 SX	IntH, PBSH	-		15	,0		
			······································													
24. Tu	ing Record						<u> </u>		l							
Size	Depth Set	(MD)	Packer	Depth (MD)	S	ize	Depth :	Set (MD)	Packe	er Depth (M	D)	Size	Depth S	et (MD)	Packer Depth (MD)	
2%"	1035		1	0341'												
25. Pro	ducing Interval				·			ation Record			<u> </u>	1			5.60	
A)	Formation			Top 10325'		tom 450'	I	erforated In 0406' - 10			Size 0.43		Holes 55	Si un	Perf. Status ider Sliding Sleeve	
B)																
B) C) D)										-			_			
	id, Fracture, Tr	eatmen	t, Cement	Squeeze, etc.	L		1			<u> </u>				L		
	h Interval							Amount and	Type of	Material						
	5' - 10452' 5' - 10452'	-	<del>-</del>	NeFe, flush v Water Frac I	w/ 7% KCI CMHPG, 395	Ω gal Metha	nol 175 2	tons CO. 5	7000# V	/ersanron						
	10432	20300	7 801 3311	Water True	<u> </u>	o Bai inceile	1101, 175.2	10113 002,	7700011 7	сізаріор						
28. Pro	duction - Inter		-	Tr	lou ppy	Gas MCF	lw ppi	Oil Gravity	Cara ADI	Gas Grav	≟⊾. In	roduction Me				
Produced	Test Date	T	ours ested	Test Production	Oil BBL								шюд			
04.13.0 Choke	18 04.22.0 Tbg. Press.		24 sg. Press.	24 Hr.	Oil BBL	2225 Gas MCF	13 Water	Gas/Oil Ra		Well Statu		low test				
Size	Flwg. 92	20	•	Rate			BBL					ali. eri - Li		+	,	
20/6 <sup>4</sup> 28, Pr			00		<u> </u>	<u> </u>	<u> </u>	202,	<b>212</b>	Inorrow	curren	tly Si behi	na slidin	ig sieeve	<u> </u>	
Date First	Test Date		lours	Test	Oil BBL	Gas MCF	Water BBI	Oil Gravity	Согт, АРІ	Gas Gravity	P	roduction Me	thod			
Produced			ested	Production							ľ					
Choke Size	Tbg. Press. Flug.		sg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ra	ntio	Well Statu	<u></u>				and the latter The special section is a second section of the secti	
	SI					1 .										

<sup>\* (</sup>See instructions and spaces for additional data on page 2)

	Test .	Hours	Test	To:									
	Date	Tested	Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				
1	Flwg.	Csg. Press:	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status					
Produc	tion - Interv	al D	<u> </u>	<u> </u>	<u> </u>	<del></del>							
		Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method				
ļ	Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	Well Status				
		(Sold, use	d for fuel, ver	ited, étc.)	<u> </u>								
		,											
	ary of Poro	us Zones (I	ıclude Aquife	rs):				31. For	mation (Log) Markers				
includi	ing depth in							ts,					
Formati	ón	Тор	Bottom		Descri	iptions, Con	tents, etc.		Name	Top Meas. Depth			
							·	San Andi Abo Wolfcam U. Straw Atoka Cl	es p n S.S. astics	2050' 2500' 5950' 7270' 9570' 9950' 10325'			
Morr Atok	ow curre	ntly SI be e tested.	hind sliding RBP switch	sleeve @ ned out fo	r sliding s	sleeve on	05-23-08 so A	toka could p					
Indica	te which ite	ms have be	en attached b	y placing a c	heck in the	appropriate	boxes:						
XEle	ectrical/Med	hanical Lo	gs (1 full set r	eq'd.)		Geologic R	eport		Directional Survey				
I heré	by certify the	nat the foreg	going and atta	ched informa	ntion is con	nplete and c	orrect as determin	ied from all ava	ilable records (see attached i	nstructions)*			
lame <i>(p</i>	lease print)		Nata	lie Krueger	•	Title		Ro	egulatory Analyst				
ignatur	e l	)acto	dia	Kuro	90-	Date			October 3, 2008				
	Addition Morra Atok Will a Indicate Summer (p)	Test Date  Tog Press Flwg S1  Disposition of Gas ared  Summary of Poror  Show all importan including depth in recoveries.  Formation  Additional remark  Morrow curre Atoka could by will apply to D  Indicate which ite  X Electrical/Med Sundry Notice	Flwg. SI  Production - Interval D  Test Hours Date Tested  Tog Press. Flwg. SI  Disposition of Gas (Sold, user ared  Summary of Porous Zones (In Show all important zones of pincluding depth interval tested recoveries.  Top  Additional remarks (include to the standard production of the stand	Tog Press.  Flwg.  St.  Production - Interval D  Test Hours Production  Test Press.  Date Tested Production  Tog Press.  Flwg.  St.  Disposition of Gas (Sold, used for fuel, venered  Summary of Porous Zones (Include Aquife sincluding depth interval tested, cushion use recoveries.  Top Bottom  Additional remarks (include plugging procured sincluding depth interval tested, cushion use recoveries.  Tormation Top Bottom  Atoka could be tested. RBP switch will apply to DHC Atoka and Morrous Indicate which items have been attached be sundry Notice for plugging and cemen I hereby certify that the foregoing and attalame (please print)  Nata	Tog. Press.   Flwg.   Press.   Rate   BBL	Tog. Press. Flwg. St  Production - Interval D  Test Date Tested Production Date Tested Production Tog. Press. Flwg. St  Tog. Press. Flwg. St  Disposition of Gas (Sold, used for fuel, vented, etc.)  Irred  Summary of Porous Zones (Include Aquifers):  Show all important zones of porosity and contents thereof: Cored including depth interval tested, cushion used, time tool open, flow recoveries.  Formation Top Bottom Description Description of Care and Morrow currently SI behind sliding sleeve @ 10043¹  Additional remarks (include plugging procedure):  Morrow currently SI behind sliding sleeve @ 10043¹  Atoka could be tested. RBP switched out for sliding will apply to DHC Atoka and Morrow. Morrow only pure indicate which items have been attached by placing a check in the Sundry Notice for plugging and cement verification  I hereby certify that the foregoing and attached information is contained (please print)  Natalle Krueger	Tog. Press.   Flwg.   Press.   Press.   Press.   Press.   Press.   Press.   Press.   Production - Interval D    Tog.   Press.   Press.   Production   Date   Production   Date   Production   Date   Press.   Pres	Tog Press.   Crag   Press   Press   Press   Press   Press   Production - Interval D      Tost   Hours   Production   BBL   MCF   BBL   MCF   BBL   Ratio	This Press   Cas   Press   Rate   BBL   MCF   BBL   Ratio   Well Status   Production - Interval D	Tog. Press.   Cog.   24 Hz.   BBL.   MCF   BBL.   BBL.   MCF   BBL.   Com. API   Com. API			

(Form 3160-4, page 2)

OPERATOR

CIMAREX ENERGY CO.

WELL/LEASE

JUNO 27 FED. 2

COUNTY **EDDY** 

### 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	

STATE OF TEXAS

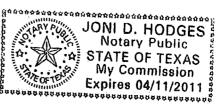
**COUNTY OF MIDLAND** 

March 31, 2008

, by Steve

The foregoing instrument was acknowledged before me on 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, NY 68210

1000 Rio Brazos Rd., Aztec, NM 87410

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

DISTRICT III

DISTRICT IV

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			Pool Code		Pool Name								
30-0	15-3611	.4	1			Hensh	aw; Morrow, S	v; Morrow, SW (Gas)						
Property	Code				Property Nam	· I								
				JUNC	) "27" FEDE	RAL COM		2						
OGRID N		Elcvation												
16268	365	3654'												
					Surface Loc	ation								
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line County						
Ε	27	16 S	29 E		1980	NORTH	660	WEST	EDDY					
			Bottom	Hale Lo	cation If Diffe	erent From Sur	face							
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
Dedicated Acre	s Joint o	or Infill	Consolidation (	Code Or	der No.	<u></u>		<u> </u>						
320	320 P													

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

NM-97874	OPERATOR CERTIFICATION  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 boltom hale location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsary pooling order heretofore entered by the division
3655.7'3663.0'   SURFACE_LOCATION   Lot - N32'53'40.10"   Long - W104'04'08.74"   NMSPCE N 689244.4   £ 622443.4   (NAD-83)	Signature  Natalie Krueger  Printed Name  SURVEYOR CERTIFICATION  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 supervison and that the same is true and correct to the best of my belief.
NM-12128	NOVERSER 3 2007  Date Surveyor  Professional Surveyor  Certificate No. Gary L. Jones 7977  BASIN SURVEYS

District I

E-mail Address: nkrueger@cimarex.com

Phone: 469-420-2723

Date: October 3, 2008

### State of New Mexico

Form C-104

1625 N, French D District II	r., Hobbs	, NM 882	240	E	energy, l	Mine	erals & 1	Natural R	esourc	es				Revised June 10, 2003	
1301 W. Grand A	venue, Ai	nosia, NI	M 88210	ì			.•	<b>D.</b>				Subi	nit to Ap	propriate District Office	
District III 1000 Rio Brazos	Rd., Azto	c, NM 87	410		_			on Divisi Francis I					•	5 Copies	
District IV 1220 S. St. Franci	ie Dr. Sar	nta Fe N	M 87505	7	12			M 87505	л.				П	AMENDED REPORT	
1220 3. 31. 11anc	is Dr., 5ai				FOR AT			E AND A	UTHO	DRI2	ATION	тот	_		
Operator n	ame and			UEST	OKA	ماري	WADD	C AUID A	.0111	<sup>2</sup> OC	RID Num	ber	14 14 10 1	· · · · · · · · · · · · · · · · · · ·	
Cimarex Er				do							683				
PO Box 14	0907										son for F		le/ Effecti	ve Date	
Irving, TX 7		<del></del> r	55.							INVV	/ 07-18		ol Code		
4 API Number 30 015-3		l		Name a Wildca	at							ro	or Coac		
7 Property Co				erty Nam								9 We	ii Numbe	r	
1			Juno		ral Com	1						002		···	
	rface L				,			,							
Ul or lot no.	Section	Tow	nship	Range	Lot.idn	Feet	t from the	ne North/South Line		Feet	from the	East/V	Vest line	County	
E	27	1	.6S	29E			1980	Nor	th		660	w	'est	Eddy.	
	ttom H				I			·			<del></del>				
UL or lot no.	Section		nship	Range	Lot Idn	Fee	t from the	North/So	uth line	Feet	from the	East/V	Vest line	County	
		1				l								1	
12 Lse Code	D Produc	ing Meth	od Code	14 Gas Cont	ection Date	15	C-129 Perr	nit Number	. 16	C-129	Effective 1	Date	17 C-1	29 Expiration Date	
Lac Code		,				,	C-12) I CII	mi nambei			Silective !			25 Expiration Date	
	<u> </u>	F		07-1	8-08								<del></del>		
III. Oil a		Tran													
18 Transpor				nsporter l			<sup>20</sup> F	<sup>20</sup> POD <sup>21</sup> O/G					22 POD ULSTR Location and Description		
OGRID				<u>id Addres</u> Iidstrea									and Desci	tption	
36785				th St, Ste			A		G	)			Sam	e	
1 10 1 10 1			enver, C				* .						_		
21778				co Inc R			<u> </u>		O	i			Sam	Δ	
21//6				Box 203			paragraph paragraph		0	· <del>· · · · · · · · · · · · · · · · · · ·</del>			Salli	c	
				ulsa, OK			1 2			revision.					
- 4							344-34-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	<del></del>							
	,														
	.								* .	je se					
IV. Prod	uced V	Vater									<u></u>				
<sup>23</sup> POD			24 POD	ULSTR	ocation a	nd D	escription								
			Same	as abov	e										
V. Well															
25 Spud Da	ite	26	Ready I	Date	1	27 TE	•	<sup>28</sup> PB	TD		29 Perfora	forations 30 DHC, MC			
02-11-0	,		7-18-	กร	1 1	064	ري	105	7 <b>4'</b>		L0080'-1	በ1በዓ'		(Morrow currently aind sliding sleeve)	
	ole Size		T		g & Tubin				Depth Se			.0103	_	s Cement	
	7½"				13¾"			-	376'					50 sx	
			+-									220 2X			
1	2¼"				9%"				2653'				91	00 sx	
8	3%"				7"				10648'			13	340 sx, 1	OC 190' CBL	
			+-	<del></del>							-				
					2%"				10356′ 						
VI. Well															
35 Date New	- 1			ry Date		est I		38 Te	st Leng	th	39 Tb	g. Pres	sure	40 Csg. Pressure	
07-18-0		0	7-18-	08		3-09-			4 hrs			1900		900	
41 Choke S	ize		<sup>42</sup> Oil	l	~	Wat	ter	•	4 Gas			<sup>15</sup> AOF		46 Test Method	
20/64 37 0_								In Wavener	2183					Flowing	
47 I hereby certi										OIL	CONSER	VATION	DIVISION	1	
complied with a				Breen and	ve is true a	na 60	inpicte to								
Signature:	13-	L	1 .	Y		,	ŀ	Approved by	<i>r</i> :						
Printed name:	Natali	Krue	ger			_		Title:					_		
			٥~.		(_)								_		
Title: Regula	Title: Regulatory Analyst							Approval Date:							

State of New Mexico Energy, Minerals & Natural Resources

Form C-104 Revised June 10, 2003

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

Oil Conservation Division

Submit to Appropriate District Office 5 Copies

District IV 1220 S. St. Franci	e Dr. Santa	Fe NM 875	05	12	20 South			r.				r-	7 AMENDED DEBORT	
1220 S. St. France				ምር አተ	Santa Fe, LLOWAE			TITHO	1D17.4	TION	ר חד	L 'RAN'	AMENDED REPORT SPORT	
Operator na			QUESTI	OK AL	LOWAL	JUE	ALLU A	UIII		UD Num		. ICA	SIORI	
Cimarex Er			rado						1626					
PO Box 140											4.0	de/ Effe	ective Date	
Irving, TX 7		1500							עעענ !	04-13-		ol Code		
<sup>4</sup> API Numbe 30 - 015-3			ol Name rshaw; Mo	orrow. S	W (Gas)						Po	oi Coae		
7 Property Ce			perty Nam								y W	ell Num	ber	
1		Jun	o 27 Fede								002	2		
	rface Lo													
UI or lot no.	Section	Township	Range	Lot.Idn	Feet from	the	North/Sou	th Line	Feet fr	rom the	East/\	West lin	e County	
E	27	165	29E		1980		Nor	th	6	60	W	/est	Eddy	
		le Location			,				1					
UL or lot no.	Section	Township		Lot Idn	Feet from	the	North/So	th line	Feet fi	rom the	East/\	West lin	e County	
		}				1				1				
12 Lse Code	13 Producin	g Method Cod	e 14 Gas Conn	ection Date	<sup>15</sup> C-129 I	Permi	t Number	16	C-129 E	ffective (	Date	17 C	C-129 Expiration Date	
List Cout						· • · • · · · · · · · · · · · · · · · ·			0 12, 2	.,		•	S ALS EMPHEUSE DELL	
	<u> </u>													
III. Oil a	nd Gas													
18 Transpor	ter		ansporter N			<sup>20</sup> PO	D	<sup>21</sup> O	/G		<sup>22</sup> P(		TR Location	
OGRID			<u>and Addres:</u> Midstrea:		_							and De	scription	
36785	APSIA E 100 9640		7 <sup>th</sup> St. Ste		descriptions	to creation there	2000 A 7 000 I SOME	G	NO. THE PARTY OF			Sa	me	
Denver, CO												-		
21770	Sunoco Inc R&M						0							
21778	PO Box 2039						0				Same			
	Tulsa, OK													
1.201.07 No. 1	ETS FLORISHED				(SECTION AND	a season a	Marie School of the	Name of Section	and the second second					
Prince Company April 1985	and the second second				- Anna er over	a Confession		Scotlant in Your						
	34 TH													
IV. Prod	uced W	ater			Progress and the	TO PROPERTY.	Constitution of the Consti		els el moure					
<sup>23</sup> POD			D ULSTR I	ocation a	nd Descripti	ion								
		Sam	e as abov	e										
V. Well														
≥ Spud Da	te	26 Read	y Date		<sup>27</sup> TD		28 PBTD			29 Perfora	tions 30 DHC, MC MC (Morrow current			
02-11-0				1	.0648'		10574'			0406'-1	1 `			
	ole Size		32 Casing	& Tubin		33 Depth Se				J400 -1	34 Sacks Cement			
	 7½"			13%"	A1			376'			350 sx			
ļ						<del> </del>								
1	2¼"			9%"				2653'					900 sx	
8	34"			7"				10648'			1	340 sx	, TOC 190' CBL	
				2%"			-	L0356'						
VI. Well				7			20			1 20			20	
35 Date New	- 1		very Date	3' T	est Date		38 Te:	st Leng	th	39 Tb	g. Pres	sure	40 Csg. Pressure	
04-13-0		Flar			-22-08	_		4 hrs		<del></del>	920		900	
41 Choke S	ize	<sup>42</sup> C	il	-53	Water			Gas		•	5 AOF		46 Test Method	
20/64		1		<u> </u>	13			2225		<u> </u>			Flow test	
<sup>47</sup> I hereby certi complied with									OILC	CONSERV	ATION	DIVISI	ON	
the best of my l			in given abov	ve is true a	na complete									
Signature:							proved by	:						
Printed name: Natalie Krueger							le:							
Trinted hame.	Notanc	Ki ucgei			1	-   ```								
Title: Regula	tory An	alyst				Ap	proval Da	te:				· · · · · · · · · · · · · · · · · · ·		
E '' 4 ' '	1	gor@-!	DEC' CT	<del></del>		- -								
E-mail Address: nkrueger@cimarex.com														
Date: October 3, 2008 Phone: 469-420-2723														