District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W Grand Avenue, Artesia, NM 88210					Er	State ergy Mine	e of Ne rals and	w Mex I Natur	cico al Reso	NEEVEIN	/ed	Form C-101 May 27, 2004	
District III 1000 R10 Bra	District III 1000 Rto Brazos Road, Aztec, NM 87410 Oil C						nservat			APR 0 1 20	00	priate District Office	
<u>District IV</u> 1220 S. St Fr	ancıs Dr., S	Santa Fe	e, NM	87505			South St ita Fe, N					MENDED REPORT	
AP	PLICA	TIO	NF	OR PERM		DRILL,	-			PEN, CEUGB	ACK, OR	ADD A ZONE	
	Operator Name and Address Cimarex Energy Co. of Colorado 600 N. Marienfeld Street, Ste. 600						CORID Number 162683						
	Midland, TX					(79701				³ API Number 30 – 025 - 36068			
1	³ Property Code 30906				Property Name Mary 7 State			• Well No					
(y	:12 ca	st.		Proposed Pool 1 to; Bone Spri	ng	2				¹⁰ Propos	sed Pool 2		
	11-1-1-1		0040	io, Done opri		⁷ Su	face Lo		1				
UL or lot no	Section	Town	ship	Range			from the	r		Feet from the	East/West line	County	
С	C 7 21S		s	35E		·	90'		orth	1500'	West	Lea	
				⁸ Pi	roposed H	Bottom Hole	Location	n If Diff	erent Fr	om Surface			
UL or lot no	Section	Town	ship	Range	Lot 1	Idn Feet	from the	North/S	outh line	Feet from the	East/West line	County	
						Additiona		Inform		1		I	
	Type Code P			¹² Well Type Code ¹³ Ca			able/Rotary	itary ¹⁴ I		⁴ Lease Type Code S	¹⁵ Gro	¹⁵ Ground Level Elevation 3678'	
	lultiple NO			¹⁷ Proposed Dep	epth ¹⁸ I		Formation	mation		¹⁹ Contractor	-	²⁰ Spud Date	
Depth to Grou		L		<u></u>	Distance	e from nearest f	fresh water well Distance from nearest surface water			ater			
Pit: Liner	Synthetic		mil	s thick Clay	Pit Vol	lume:bb	ls	Drill	ing Metho	<u>od:</u>	· · · · · · · · · · · · · · · · · · ·		
Close	d-Loop Sys	tem 🗌]					Fresl	1 Water	Brine Diesel/C	Dil-based 🗌 Gas	s/Air 🔲	
					²¹ Pro	posed Cas	ing and	l Ceme	ent Pro	gram			
Hole S	Hole Size Casin			ng Sıze	Casing weigh			Setting D	epth	Sacks of Cerr	nent	t Estimated TOC	
			13-3/8"		48#		_	1422'		1050		Surface	
<u>.</u>			<u>9-5/8"</u> 7"		40#			<u>5416'</u> 1100'		460		DV @ 4039' 6810' +/-	
			4-1/2"		4.7#			11904'		160		TOL 10691'	
²² Describ proposed n	e the pro ew produ	posed octive	prog zone.	ram. If this a Describe th	applicatio e blowou	on is to DEE it prevention	PEN or program	PLUG I n, if any	BACK, 7. Use a	give the data on t additional sheets i	he present pro f necessary.	oductive zone and	
The Mary 7 CIBP @ 11 necessary.	The Mary 7 State #1 is currently producing from the Morrw 11894 CIBP @ 11860' w/35' cmt cap then Recomplete the Bone Spring 7 necessary					94'-1196 g 7962'-	4'-11963'. Cimarex proposes to plug off the Morrow by setting a 7962'-7988' and 9492'-9516'. The Bone Spring will be acidized as CONDITIONS OF APPROVAL: Intent to						
Please see attached procedure and C-102.						drill ONLY CANNOT produce until the							
						Non-Standard Location for oil well has been approved by OCD Santa Fe office.							
Permit Expires 2 Vears From Approve					val								
		Da	te U	Inless Drif	ting Un	iderway	L					1	
²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines [], a general permit [], or an (attached) alternative OCD-approved plan [].					n	OIL CONSERVATION DIVISION							
Signature:					Appro	Approved by.							
Printed name ⁻ Laci Luig						Titlar	Title: OC DISTRICT SUPERVISOR/GENERAL MANAGER						
Title: Engineer Tech							Approval Date: PR02 2008 Expiration Date:						
		imarex	com				Appro	, ai Daie.			phanon Date.		
E-mail Address: Iluig@cimarex.com Date: 3 31 08 Phone (432) 571 7810					Condu	Conditions of Approval Attached							

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe			² Pool Code		LAGE DEDIC	³ Pool Nat		
30			Wild cat _Osudo; Bone Spi						
⁴ Property	Code		61	⁶ Well Number					
3090	6			1					
⁷ OGRID	No.			⁹ Elevation					
16268	3			3678'					
		-			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
C	7	215	35E		990'	North	1500'	West	Lea
	1	L I	пВс	ottom Hol	le Location I	f Different Fror	n Surface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320	s ¹³ Joint o	r Infill	onsolidation	Code ¹⁵ Ore	der 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.

<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	· / / / /	
16		¹⁷ OPERATOR CERTIFICATION
	2	I hereby certify that the information contained herein is true and complete
	· · · · · · · · · · · · · · · · · · ·	to the best of my knowledge and belief, and that this organization either
		owns a working interest or unleased mineral interest in the land including
		the proposed bottom hole location or has a right to drill this well at this
		location pursuant to a contract with an owner of such a mineral or working
·····		mterest, or to a voluntary pooling agreement or a compulsory pooling order
Marv 7 State #1		heretofore entered by the division
		Jac XJA 33108
		Signature Late
		Laci Luig, Engineer Tech
4		Printed Name
3	\$ I	
	\$ I	
]		
		¹⁸ 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 supervision, and that the same is true
		and correct to the best of my belief.
		Date of Survey
		Signature and Seal of Professional Surveyor
		Certificate Number

Mary 7 State #1 Bone Springs Recompletion Procedure

Well Data:	
KB	20' above GL
TD	12350'
PBTD	12244'
Casing	13-3/8" 48# H-40 @ 1422'. Cmtd w/ 1050 sx. Cmt circ.
	9-5/8" 40# I-80 & J-55 @ 5416'. Cmtd w/ 460 sx. DV Tool @ 4039'
	7" 29# P-110 @ 11000'. Cmtd w/ 460 sx. TOC @ 6810'(?).
Liner	4-1/2" 13.5# P-110 @ 12348'. Cmtd w/ 160 sx. TOL @ 10691'.
Packer	Arrowset IX 10K @ 11802'
Perfs	Morrow (11894' – 11963')

Procedure:

- 1. MIRU pulling unit. Kill well w/ FW, ND WH, NU BOP. Release pkr and TOOH w/ pkr and tbg.
- RU wireline, Run GR to 11880'. Run and set CIBP @ ± 11860' and dump 35' of cmt on top of CIBP. Run CBL/ GR log from 9700' to 7500'. If there is good bond from 9600' to 9300' proceed to step 6.
- 3. If there is not good bond from 9600' to 9300', shoot squeeze holes @ 9600' and 9300' @ 6 JSPF. RD wireline. TIH w/ 7" cmt retainer on 2-3/8" tbg and set @ <u>+</u> 9350'. Pump in squeeze holes @ 9600' and establish circulation out squeeze holes @ 9300'. RU Halliburton and suicide squeeze as per recommendation. Flush w/ fresh wtr to cmt retainer. After flushing to retainer, immediately sting out of retainer and pull tbg up to 8000'. Reverse out cmt from tbg. SI well for 48 hours.
- 4. TIH w/ bit, 6 DC's, and 2-3/8" tbg and drill out cmt and retainer to 9550'. Pressure test csg to 1500 psig. TOOH w/ bit, DC's, and tbg.
- 5. RU wireline and run CBL/CCL log from 9550' to 8500'. If necessary, resqueeze cement to obtain required cement coverage of Bone Springs zone.
- 6. RU wireline, Perforate Bone Springs (9492' 9516') w/ premium charges 2 JSPF (total of 48 holes). Depth reference log Spectral Density Dual Spaced Neutron Gamma Ray log dated December 26, 2002. RD wireline.
- TIH w/ pkr and 2-3/8" tbg and set pkr @ <u>+</u> 9400'. Acidize Bone Springs perfs (9492' 9516') w/ 3000 gals 15% HCl and 72 ball sealers at 4 to 5 BPM. Flush w/ FW.

Mary 7 State #1 Bone Springs Recompletion Procedure Page 2

- 8. Swab test and report results.
- TOOH w/ pkr and tbg. TIH w/ RBP or CIBP based upon swab results and set @ <u>+</u> 9450'. RU wireline, Perforate Bone Springs (7962' – 7988') w/ premium charges 2 JSPF (total of 52 holes). Depth reference log Spectral Density Dual Spaced Neutron Gamma Ray log dated December 26, 2002. RD wireline.
- 10. TIH w/ pkr and 2-3/8" tbg and set pkr @ <u>+</u> 7900'. Acidize Bone Springs perfs (7962' 7988') w/ 3000 gals 15% HCl and 78 ball sealers at 4 to 5 BPM. Flush w/ FW.
- 11. Swab test and report results.
- 12. FIH w/ pkr and tbg and retrieve RBP (if set). TOOH and LD tbg. TIH w/ 2-7/8" tbg for production. ND BOP, NU WH. TIH w/ rods and pump and put well on production.