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Authorization For Expenditure

Company Entity Cimarex Energy Co.						Date Prej		16, 2011	
Permian Boxer Federal Com	1	1 1	Abo/Caprock	1	WProperty Number 2		Drillin	AFENG	
CC: 100. SHL: 2265 FNL & 375 FEL, Section 3-15S-31E BHL: 2265 FNL & 375 FWL, Section 3-15S-31E			Chaves		NM	Oll Gas	x	Expl Prod	x
Estimateuroe Original Estimate Revised Estimate O Supplemental Estimate O			si Stan Date 🥵 👾 🦛	1. (Y) (Es	t, CompiDate 🕅 🖓 - 🕪		nakon Abo	Ttl Measured 2 13,200' 7 Ttl Ventical De 8,800'	
Al Commension Advances All tubulars, well of lease equipment is pri) Dry Hole Cost \$2,008,248 \$2,008,248 \$291,000 \$291,000 \$291,000 \$150,000 \$150,000		After Casing P \$2,115,450 \$2,115,450 \$663,500 \$127,000 \$790,500 \$790,500 \$750,500 \$2,755,950	pint		ppleted Well Cost \$1,008,248 \$2,115,450 \$4,123,698 \$954,500 \$127,000 \$1,081,500 \$0 \$0 \$5,205,198	
Well controlms vience Unless otherwise indicated below, you, as a r long as Operator conducts operations hereur insurance, you must provide a certificate of s later than commencement of drilling operation insurance procured by Operator. 1 text to purchase my own well control insurance Well control insurance procured by Operator related redrilling and clean-up/pollution experies Mandenna Electors Cimarex sells its gas under arm's-length comb volumes delivered over time. Should you cho	on-operatir der and to j uch insuran ns. You ag colicy. provides, a nse coverin acts with th	ng wor pay yo ce aco ree thi imong ig drilli	king interest owner, agre ur prorated share of the eptable to Operator, as to at failure to provide the c other terms, for \$20,000 ing (through completion)	e to be con premiums o form and certificate o 0,000 (100% with a \$1,0 with a \$1,0 with a \$1,0	vered by Operator's w therefore. If you elec limits, at the time this of insurance, as provid & W.I.) of Combined Si 200,000 (100% W.I.) do include fees. In additio	eli controi t to purcha s AFE is ret ed herein, ngle Limit (eductible.	Insurance p use your own urned, if ava will result in coverage for es may be in	rocured by Operat well control alable, but in no e your being cover well control and	event red by
request to Cimarex's Marketing Department, I elect to take my gas in kind. I elect to market my gas with Cimarex pursuant to	we will share	re with	n you the terms and cond	litions purs	uant to which gas will	be sold.			
Coniments or Aris a stimates only and antic The above costs are astimates only and antic without affecting the authorization for expen actual legal, curative, regulatory and well cos	pate troubl diture herei	e free In grar	operations without any f nted. By approval of this	oreseeable AFE, the w	e change in plans. The orking interest owner	actual cos agrees to p	ts may exce bay its propo	ed the estimated ortionate share of	l costs f
Prepared by Art Metcalfe	1	i Park	Cimarex Energy Co Completion Manager	THE REAL PROPERTY AND INCOME.	ral Regionalia Roger Alex				
Company			Joint Interest A	pproval	Cate 201				
	<u></u>							10/25/201	' 11 2:49 Pi



Project Cost Estimate

Lease Name: Boxer Federal Com		W	ell No.:	1
Intemplotes		Dry Hole Cost	(After,Casing)	
	A streades - A	Codes in	Point.	COSI
Roads & Location Preparation / Restoration	001-3010	\$54,000 DICC.100	\$7,000	\$61,000
Damages	DIOC.105	\$0 DICC.105	\$0	\$0
Mud / Fluids Disposal Charges	DIDC.255	\$72,000 DICC.285	\$52,000	\$124,000
Day Rate 33 DH Days 5 ACP Days @ Per Day	DIDC.115	\$544,748 DICC.120	\$83,000	\$627,748
Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	DIDC.120	\$20,000	assanna a	\$20,000
Bits	0100.125	\$72,000 DICC.125	\$5,000	\$77,000
Fuel \$3.85 Per Gallon 1200 Gallons Per Day	DIDC.135	\$175,000 DICC.180	\$26,950	\$201,950
Water / Completion Fluids Per Day	DI9C.140	\$6,000 DICC.135	\$60,000	\$66,000
Mud & Additives	DI9C.145	\$92,000	<u>HANGHANA</u>	\$92,000
Surface Rentais Per Day	DIDC.150	\$169,000 DICC.140	\$175,000	\$344,000
Downhole Rentois	0100.155	\$65,000 DICC.145	\$35,000	\$100,000
Formation Evaluation (DST, Coring including evaluation, G&G Services)	DIDC.160		anana.	\$0
Mud Logging \$18 Days @ 1,150 Per Day	DIDC.170	\$25,000	ununu.	\$25,000
Open Hole Logging	DIDC.150	\$0	saaaaa ah	\$0
Cementing & Float Equipment	DIDC.185	\$42,000 DICC.155	\$60,000	\$102,000
Tubular inspections	DIDC.250	\$20,000 DICC.150	\$2,500	\$22,500
Cosing Crews	DIDC.295	\$21,000 DICC.165	\$16,000	\$37,000
Extra Labor, Welding, Etc.	0100.200	\$5,000 DICC.170	\$6,000	\$11,000
Land Transporation (Trucking)	DIDC.205	\$17,500 DICC 175	\$23,000	\$40,500
Supervision Per Day	5IDC.210	\$56,000 DICC.180	\$27,000	\$83,000
Trailer House / Camp / Catering 425 Per Day	DIDC.280	\$15,000 DICC.255	\$4,000	\$19,000
Other Misc Expenses	0100.220	\$2,000 DICC.190	\$15,000	\$17,000
Overhead 202 Per Day	DIDC.225	\$7,000 DICC.195	\$4,000	\$11,000
Remedial Cementing	DIDC.281	DICC.215		\$0
MOB/DEMOB	DIDC.240	\$110,000	the state of the second se	\$110,000
Directional Drilling Services 17 Days @ 12,500 Per Day	DIDC.245	\$239,000	MANNO.	\$239,000
Dock, Dispatcher, Crane	DIDC.250	DICC.230		\$0
Marine & Air Transportation	DIDC.275	DICC.250		\$0
Solids Control Per Day	DIDC.260	\$55,000	10111110	\$55,000
Well Control Equip (Snubbing Svcs.)	DIDC.263	\$18,000 DICC.240	\$23,000	\$41,000
Fishing & Sidetrack Operations	DIDC.270	\$0 DICC.245		\$0
Completion Rig 5 Days @ 4,400 Per Day	CHANGE -	DICC.115	\$25,000	\$25,000
Coll Tubing Per Day	111111	DICC.260	\$52,000	\$52,000
Completion Logging, Perforating, WL Units, WL Surveys		DICC.200	\$8,000	\$8,000
Stimulation		DICC.210	\$1,220,000	\$1,220,000
Legal / Regulatory / Curative	CIDC.300	\$5,000 DICC.280	\$1,000	\$6,000
Well Control Insurance \$0.35 Per Faot	DIDC.285	\$5,000	aanna a	\$5,000
Contingency 5% of Drilling Intangibles	DIDC.435	\$95,000 DICC.220	\$97,000	\$193,000
Construction For Well Equipment	anan	DWEA.110	\$8,000	\$8,000
Construction For Lease Equipment	- Walling	DIS0.110	\$60,000	\$60,000
Construction For Sales P/L	the second s	DICC.265	\$20,000	\$20,000
Total Intangible Cost		\$2,008,248	\$2,115,450	\$4,123,698

Casing	Size	Feet	\$/Foot	CHANNA MA	the second s	100 M 10 10	the second	eosta anti-
Drive Pipe	20	90.00		A COLORAGE A	\$6,000		the second	\$6,000
Conductor Pipe	1	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		DWE8.130	\$0	9999 A		Ś
Water String	1.1.2.2.2	a series and	ar gara	DWEB.125	so		an a	s
Surface Cosing	13-3/8"	350.00	\$42.96		\$15,000		an status	\$15,000
Intermediate Casing	7 "				\$255,000			\$255,000
Drilling Liner	1.1.4.4.4	Carl and Services	CONTRACTOR	DWE8.145	\$0			\$0
Drilling Liner	100.000	1.1.2.2.2.2.2.2	the second second	DWEP.145	\$0			\$0
Production Casing or Liner	(4 1/2"	14352.00	\$15.23	111111	Station and the	01VEA.100	\$222,000	\$222,000
Production Tie-Back	1	1. 1. 1. 1. 1.	Part and some	al and a star		DWEA.100	\$0	\$0
Tubing	27/8"	8700.00	\$9.94	1.11.11	anna 12	DWEA.105	\$86,000	\$86,000
N/C Well Equipment					the second s	DWEA.125	\$65,000	\$65,000
Wellhead, Tree, Chokes					\$15,000	DWEA.120	\$20,000	\$35,000
Liner Hanger, Isolation Packer					\$0	DWEA.125	\$0	\$0
Packer, Nipples				111111	an a	DWEA.130	\$164,000	\$164,000
Pumping Unit, Engine					te an	DLE0.100	\$100,000	\$100,000
Lift Equipment (BHP, Rods, Anchors)				ON M	an a	DLEO.105	\$6,500	\$6,500
Tangible - Lease Equipment						$\mathcal{L}_{\mathcal{L}}$		
N/C Lease Equipment				1111111	Magana.	DLEG,115	\$23,000	\$23,000
Tanks, Tanks Steps, Stairs				Chillen Here	Section 1997	DLEQ.120	\$58,000	\$58,000
Battery (Heater Treater, Separator, Gas Treating Equipment)					en an an a	DLEQ.125	\$28,000	\$28,000
Flow Lines (Line Pipe from wellhead to central facility)						DLEQ.130	\$18,000	\$18,0D0
Offshore Production Structure for Focilities					anna an	DWEA.135	\$0	\$0
Pipeline to Sales				1.111.1		DWEA.140		\$0
Total Tangibles				1000000000000000	\$291,000		\$790,500	\$1,081,500
					شده، نول بالمراجعة من يريد روما			
P&A Costs				DIDC.295	\$150,000	DICC.275	-\$150,000	\$0
Total Cost					\$2,449,248		\$2,755,950	\$5,205,198