

and i.

Authorization For Expenditure

Company Entity Cimarex Energy Co.					:	Date Pierr		1, 2012
Region Well								AFE No.
	Federal	21H		NGIIII				
Permian Snoddy	receral	211	Mitchell			 		
, Location					State			e Well
Est SHL: 768 FNL & 555 FEL Sec 26	5, 20S-32E		1		Contraction of the second s	Oil	X	Expl x
Est BHL: 330 FSL & 526 FEL Sec 26			Lea		NM	Gas	1	Prod
Estimate Type Original Estimate	۲		Subididate a state		st. Comp Date	CONTRACTOR I	nation	14,300'
Revised Estimate	Ö					Bone	Spring	Ttl Vertical Depth
Supplemental Estimate	0]					<u> </u>	9,900'
Project Description								
Drill and complete a Bone spring								
**************************************			·····					
Intangibles	·		Dry Hole Co	st	After Casing P	oint	Cor	npleted Well Cost
Drilling Costs			\$2,066,950					\$2,066,950
Completion Costs Total Intangible Costs			\$2,066,950		\$2,981,400 \$2,981,400		<u>t</u>	\$2,981,400 \$5,048,350
with many and tooto			÷2,000;350		76,701,4U			
Tangibles					<u></u>			
Well Equipment			\$695,000		\$618,500			\$1,314,500
Lease Equipment			<u> Millingson and an </u>	310HOM	\$166,750	******		\$166,750
Total Tangible Well Cost			\$696,000		\$785,250			\$1,481,250
Plug and Abandon Cost	······································		\$150,000		-\$150,000	150.000		\$0
								·····
Total Well Cost		<u></u>	\$2,912,950)	\$3,616,65	0		\$6,529,600
Well Control Insurances Unless otherwise indicated below so long as Operator conducts ope insurance, you must provide a ce later than commencement of dril by insurance procured by Operat 1 elect to purchase my own well co Well control Insurance procured related redrilling and clean-up/po Comments on AFE	v, you, as a non-o crations hereunde rtificate of such li lling operations. Y or. ntrol insurance polky. by Operator, pro- ollution expense o	perating wo ar and to pa nsurance ac You agree to vides, amon covering dri	rking interest owner, ag y your prorated share o ceptable to Operator, a hat failure to provide th g other terms, for \$20,0 lling (through completic	gree to be o f the premi s to form a e certificato 100,000 (100 on) with a \$	overed by Operator's i ums therefore. If you nd limits, at the time th a of insurance, as provi 0% W.I.) of Combined S 1,000,000 (100% W.I.)	well control elect to pur is AFE is re ded herein, Single Limit deductible.	chase your turned, if a will result coverage fo	own well control railable, but in no event in your being covered or well control and
without affecting the authorization actual legal, curative, regulatory actual legal, curative, regulatory .		der term of	the joint operating agree	co. Appre	gulatory order or other			
Prepared by		Drilling ar	id Completion Manager		Regional	Manager	5 2 er er	
Mark Audas		Doug Parl	c		Roger Ale	xander		
					·····			· · · · · · · · · · · · · · · · · · ·
Na internet and an and a state of the state of			Joint Interest	Approva				
Company		By			Date			
L		······································			······································	<u> </u>		
						-,		
	:	Oil C	Conservation	Divisi	on			
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Case No. ______

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Project Cost Estimate

ise Name:	Snoddy	Federal
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Lease Name: Snoddy Federal				w	ell No.:	21H
Intangibles		Codes	Dry Hole Cost	Chirdias	After Casing Point	Completed Well Cost
Roads & Location Preparation / Restaration		DIDC.:CO	\$60,000	DICC.100	\$3,000	\$63,000
Damages		DIDC.105	\$1,000		00,000	\$1,000
Mud / Fluids Disposal Charges		DIDC.255	\$50,000		\$80,000	\$130,000
Day Rate 35 DH Days 3.5 ACP Days @	Per Day	DICC.115	\$665,000		\$67,000	
Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)		DIDC.120	\$5,000	100 100 100 100 100 100 100 100 100	an a	\$5,000
Bits		DIDC.125	\$65,000		\$1,000	\$66,000
Fuel \$3.70 Per Gallon	Gailons Per Day	DIDC.125	\$117,000		\$1,000	
Water / Completion Fluids	Per Day	DIDC.140	\$33,250		\$147,000	
Mud & Additives		DIDC.145	\$84,700	The second s	137244449900	\$84,700
Surface Rentals	Per Day	DIDC.150	\$54,000	DICC.140	\$147,000	
Downhole Rentals		0100.155	\$125,000	DICC.145	\$36,000	
Formation Evaluation (DST, Coring including evaluation, G&G Services)		DIDC.160	+===,===	Sec. 1993	an a	\$0
Mud Logging \$1,200 Days @	20 Per Day	D/DC.170	\$28,000		ann an the	\$28,000
Open Hole Logging		D/DC.180	\$15,000	1111	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	\$15,000
Cementing & Floot Equipment		DIOC.185	\$98,000	DICC.155	\$86,000	\$184,000
Tubular Inspections		0IDC.190	\$5,000		\$5,000	
Casing Crews		DIDC.195	\$18,000		\$18,000	
Extra Lobor, Welding, Etc.	· ·····	DIDC.200	\$11,000		\$10,400	
Land Transporation (Trucking)		D:DC.205	\$11,000		\$7,000	
Supervision	Per Day	0000.210	\$66,000		\$32,000	
Trailer House / Camp / Catering	Per Day	DIDC.280	\$35,000		\$4,000	
Other Misc Expenses	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DIDC.220	\$2,000		\$7,000	
Overhead	300 Per Day	DIDC.225	\$12,000		\$3,000	
Remedial Cementing		DIDC.231	512,000	DICC.215	00,000	\$15,000
MOB/DEMOB		DIDC.240	\$110,000			\$110,000
Directional Drilling Services 14 Doys @	12,800 Per Day	DIDC.245	\$204,000	249 118362	1.1.5.4.5.4.1	\$204,000
Dock, Dispatcher, Crane	12,000 / 21 009	DIDC.250	.7204,000	DICC.230	<u> ALEXANDER EN ER EN E</u>	\$204,000
Marine & Air Transportation		DIDC.275	······	DICC.250	<u> </u>	50
Solids Control	Per Day	DIDC.273	\$46,000	V + V + T / T / T / T / T	THE STATES	\$46,000
Well Control Equip (Snubbing Svcs.)	1. Per Day	DIDC.265	\$30,000		\$25,000	
Fishing & Sidetrack Operations		DIDC.263	\$30,000 \$0		\$25,000	\$35,000
Completion Rig 6 Days @	3,400 Per Day	COC.LIS	20 	÷	\$32,000	+
Coil Tubing 1 Days @		- 111111111		DICC.115		
Completion Logging, Perforating, WL Units, WL Surveys	Per Day	-9661414	1.18.18.18	DICC.263	\$45,000	
Stimulation		-949949	1111111111	DICC.200	\$70,000	the second s
		<u>Alleberg</u>	<u> Alexandra an</u>	DICC.210	\$2,010,000	
Legal / Regulatory / Curative		DIDC.300	\$13,000		Alexandra and a second	\$13,000
Well Control Insurance \$0.35 Per Foot	······································	0iDC.235	\$5,000	Station and the	KAREN STATE	\$5,00
Contingency 5% of Drilling Intangibles		DIDC.435	\$98,000		\$50,000	
Construction For Well Equipment				DW54.110	\$10,000	· · · · · · · · · · · · · · · · · · ·
Construction For Lease Equipment		- 19994		DLEQ.110	\$75,000	
Construction For Sales P/L		Martine .	16.1.1.1.1.1.1.1.1.1	DICC.265	\$10,000	
Total Intangible Cost			\$2,066,950		\$2,981,400	\$5,048,350

Casing	Size	Feet	\$/Foot	1. 1.	and and a second		SULSESSION	an a
Drive Pipe	36 "	120.00	\$180.00	DW65.150	\$22,000		annan -	\$22,000
Conductor Pipe	1. 4. 4		1. 1. A.	OWE8.130	\$0		an a	\$0
Water String	20" "	1090.00	\$136.78	DWE8.135	\$149,000		01999 0 1995	\$149,000
Surface Casing	13-3/8"	3524.00	\$83.03	DW68.140	\$293,000		MANAS	\$293,000
Intermediate Casing	9 5/8"	5200.00	\$42.13	DWE3.145	\$219,000		an nam	\$219,000
Drilling Liner			1999 - S. S. S. S.	DWE5.145	\$0		MANA MARKA	\$0
Drifling Liner	100	ne menjaar ar vre	1999 - 1997 1999 - 1997	DWEB.145	\$0		CHANK &	\$0
Production Casing or Liner	5 1/2"	14000.00	\$20.54	an a	ale anns i	DWYEA.100	\$291,000	\$291,000
Production Tie-Back		19 M 19 M 19 M 19			See Startes	DWEA.100	\$0	\$0
Tubing	2 7/8"	9000.00	\$8.14	99.959.99	an a	DWEA.205	\$73,000	\$73,000
N/C Well Equipment				1699144	an a	DWEA.115	\$72,500	\$72,500
Wellhead, Tree, Chokes				DWEB.115	\$13,000	DWEA.120	\$18,000	\$31,000
Liner Hanger, Isolation Packer				QW158.200	\$0	DWEA.325	\$10,000	\$10,000
Packer, Nipples					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	DWEA.130	\$0	SC
Pumping Unit, Engine				6. 199. 19	1999 A.	DLEQ.100	\$145,000	\$145,000
Lift Equipment (BHP, Rods, Anchors)					an a	DLE0.105	\$9,000	\$9,000
Tangible - Lease Equipment					Section 20			
N/C Lease Equipment				Chille Chille		0120,115	\$64,500	\$64,500
Tanks, Tanks Steps, Stairs				11.11		9160.120	\$64,250	\$64,250
Battery (Heater Treater, Separator, Gas Treating Equipme	nt)			1.		DL5Q.125	\$32,500	\$32,500
Flow Lines (Line Pipe from wellhead to central facility)				anna	611101141	0150.130	\$5,500	\$5,500
Offshore Production Structure for Facilities				and the	taana ka	OWEA.135	\$0	Ś
Pipeline to Sales				<i>44298</i> 9	and the	DWEA.140	\$0	\$(
Total Tangibles				<u></u>	\$696,000		\$785,250	\$1,481,250
<u>,</u>							<u></u>	
P&A Costs				DIDC.295	\$150,000	DICC.275	-\$150,000	\$0
					\$2.912.950		\$3,616,650	\$6,529,60



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Authorization For Expenditure

Cimarex Energy Co.					Date Prep		h 1, 2012
Region	Vame	Well No.	Prospect or Field Name	Property Number		Drillin	g Afeino
Permian Snoddy		22H	Mitchell				
Location			County	Sac			
Est SHL: 797 FNL & 596 FEL Sec 26,			Lea	NM	Oil .	X	Expl X
Est BHL: 330 FSL & 1980 FWL Sec 2	26, 205-32E				Gas	1	Prod
Estimate Type			st Start Date	Est. Comp Date	Forn	nation	Tel Measured Depth :
Original Estimate Revised Estimate	<u> </u>			•	Bone	Spring	14,300' Attivienceil Depth
Supplemental Estimate	0	1					9,900'
Project Description Drill and complete a Bone spring I	horizontal well . F	Potash 4 stri	ing design.				
• •					<u>.</u>		•
Intangibles Drilling Costs	······		Dry Hole Cost \$2,066,950	After Casing	Point	<u>Co</u>	s2,066,950
Completion Costs				\$2,981,40			\$2,981,400
Total Intangible Costs			\$2,066,950	\$2,981,44	JU		\$5,048,350
Tangibles			······································		······································		
Well Equipment			\$696,000	\$618,50 \$166,75			\$1,314,500 \$166,750
Total Tangible Well Cost			\$696,000	\$785,25			\$1,481,250
Plug and Abandon Cost			\$150,000	-\$150,00	0		\$0
Total Well Cost			\$2,912,950	\$3,616,6	-		
Comments on Well/Costs		y COPAS an	d CEPS guidelines using the Hist	oric Price Multipiler.			\$6,529,600
		y COPAS an	d CEPS guidelines using the Hist	oric Price Multiplier.			
All tubulars, well or lease equip Well control insurance Unless otherwise indicated below so long as Operator conducts ope insurance, you must provide a cer later than commencement of drill by insurance procured by Operate I elect to purchase my own well cor Well control insurance procured b related redrilling and clean-up/po	you, as a non-of rations hereunde tificate of such in ing operations. Yor. http://insurance.policy. by Operator, prov	perating wo er and to pa nsurance ac You agree th vides, amon	rking interest owner, agree to b y your prorated share of the pri ceptable to Operator, as to forr nat failure to provide the certific g other terms, for \$20,000,000	e covered by Operator's miums therefore. If you n and limits, at the time t ate of insurance, as prov 100% W.I.) of Combined	well control elect to pur his AFE is ret ided herein, Single Limit	chase you turned, if a , will result	procured by Operator r own well control evailable, but in no event i n your being covered
 All tubulars, well or lease equip All tubulars, well or lease equip Well control insurance and the set of the set o	you, as a non-op rations hereunder tificate of such in ling operations. Your or. http://www.commons.org/ operator, prov- ullution expense of your expenditur	perating we er and to pa nsurance ac You agree th rides, amon covering dri trouble free e herein gra	rking interest owner, agree to b y your prorated share of the pri- ceptable to Operator, as to form hat failure to provide the certific g other terms, for \$20,000,000 (lling (through completion) with a operations without any forese inted. By approval of this AFE,	e covered by Operator's miums therefore. If you n and limits, at the time to ate of insurance, as prov 100% W.I.) of Combined a \$1,000,000 (100% W.I.) eable change in plans. T the working interest own	well control elect to pur his AFE is rel ided herein, Single Limit deductible. he actual co er agrees to	chase you turned, if a , will result coverage f sts may ex pay its pro	procured by Operator r own well control svailable, but in no event in your being covered for well control and cored the estimated costs oportionate share of
 All tubulars, well or lease equip All tubulars, well or lease equip Well control insurance, and the set of the set	you, as a non-op rations hereunder tificate of such in ling operations. Your or. http://www.commons.org/ operator, prov- ullution expense of your expenditur	perating wo er and to pa nsurance ac You agree th rides, amon covering dri trouble free e herein gra der term of	rking interest owner, agree to b y your prorated share of the pri- ceptable to Operator, as to form hat failure to provide the certific g other terms, for \$20,000,000 (lling (through completion) with a operations without any forese inted. By approval of this AFE,	e covered by Operator's miums therefore. If you a and limits, at the time t cate of insurance, as prov 100% W.I.) of Combined a \$1,000,000 (100% W.I.) eable change in plans. T the working interest own regulatory order or othe proval	well control elect to pur his AFE is rel ided herein, Single Limit deductible. he actual co er agrees to	chase you turned, if a , will result coverage f sts may ex pay its pro	procured by Operator r own well control svailable, but in no event in your being covered for well control and cored the estimated costs oportionate share of
 All tubulars, well or lease equip All tubulars, well or lease equip Well control insurance Unless otherwise indicated below so long as Operator conducts ope insurance, you must provide a cer later than commencement of drill by insurance procured by Operator I elect to purchase my own well control insurance procured by related redrilling and clean-up/po Comments one all are automicating the authorization actual legal, curative, regulatory at the above costs are estimates on 	you, as a non-op rations hereunder tificate of such in ling operations. Your or. http://www.commons.org/ operator, prov- ullution expense of your expenditur	perating wo er and to pa nsurance ac You agree th rides, amon covering dri trouble free e herein gra der term of	rking interest owner, agree to b y your prorated share of the pro- ceptable to Operator, as to forr hat failure to provide the certific g other terms, for \$20,000,000 (lling (through completion) with e operations without any forese anted. By approval of this AFE, the joint operating agreement, Cimarex Energy Co. Ap	e covered by Operator's miums therefore. If you and limits, at the time to cate of insurance, as prove 100% W.I.) of Combined a \$1,000,000 (100% W.I.) eable change in plans. T the working interest own regulatory order or othe proval	well control elect to pur his AFE is ret ided herein, Single Limit deductible. he actual co er agrees to r applicable	chase you turned, if a , will result coverage f sts may ex pay its pro	procured by Operator r own well control svailable, but in no event in your being covered for well control and cored the estimated costs oportionate share of
 All tubulars, well or lease equip All tubulars, well or lease equip Well Control insurance Unless otherwise indicated below so long as Operator conducts ope insurance, you must provide a cer later than commencement of drill by insurance procured by Operator I elect to purchase my own well cor Well control insurance procured by related redrilling and clean-up/po Commentsion AEE The above costs are estimates on without affecting the authorization actual legal, curative, regulatory and prepared by 	you, as a non-op rations hereunder tificate of such in ling operations. Your or. http://www.commons.org/ operator, prov- ullution expense of your expenditur	perating wo r and to pa nsurance ac You agree th vides, amon covering dri trouble free e herein gra der term of	rking interest owner, agree to b y your prorated share of the pro- ceptable to Operator, as to forr hat failure to provide the certific g other terms, for \$20,000,000 (lling (through completion) with e operations without any forese anted. By approval of this AFE, the joint operating agreement, Cimarex Energy Co. Ap	e covered by Operator's miums therefore. If you and limits, at the time to cate of insurance, as prove 100% W.I.) of Combined a \$1,000,000 (100% W.I.) eable change in plans. T the working interest own regulatory order or othe proval	well control elect to pur his AFE is ret vided herein, deductible. he actual co: er agrees to r applicable Mentger	chase you turned, if a , will result coverage f sts may ex pay its pro	procured by Operator r own well control svailable, but in no event in your being covered for well control and cored the estimated costs oportionate share of
1. All tubulars, well or lease equip Vell Control insurance Unless otherwise indicated below so long as Operator conducts ope insurance, you must provide a cer later than commencement of drill by insurance procured by Operato I elect to purchase my own well cor Well control insurance procured to related redrilling and clean-up/po Comments on Alf- The above costs are estimates on without affecting the authorizatic actual legal, curative, regulatory a Creptorecity Mark Audas	you, as a non-op rations hereunder tificate of such in ling operations. Your or. http://www.commons.org/ operator, prov- ullution expense of your expenditur	perating wo r and to pa nsurance ac You agree th vides, amon covering dri trouble free e herein gra der term of	rking interest owner, agree to b y your prorated share of the pro- ceptable to Operator, as to forr hat failure to provide the certific g other terms, for \$20,000,000 (lling (through completion) with e operations without any forese anted. By approval of this AFE, the joint operating agreement, Cimarex Energy Co. Ap	e covered by Operator's miums therefore. If you n and limits, at the time f ate of insurance, as prov 100% W.I.) of Combined a \$1,000,000 (100% W.I.) eable change in plans. T the working interest own regulatory order or othe proval Reger A	well control elect to pur his AFE is ret vided herein, deductible. he actual co: er agrees to r applicable Mentger	chase you turned, if a , will result coverage f sts may ex pay its pro	procured by Operator r own well control svailable, but in no event in your being covered for well control and cored the estimated costs oportionate share of
All tubulars, well or lease equip Well control insurance Unless otherwise indicated below so long as Operator conducts ope insurance, you must provide a cer later than commencement of drill by insurance procured by Operato I elect to purchase my own well cor Well control insurance procured to related redrilling and clean-up/po Commentson AEE The above costs are estimates on without affecting the authorizatio actual legal, curative, regulatory estimates	you, as a non-op rations hereunder tificate of such in ling operations. Your or. http://www.commons.org/ operator, prov- ullution expense of your expenditur	perating wo r and to pa nsurance ac You agree th vides, amon covering dri trouble free e herein gra der term of	rking interest owner, agree to b y your prorated share of the pri- ceptable to Operator, as to forr nat failure to provide the certific g other terms, for \$20,000,000 of ling (through completion) with a operations without any forese inted. By approval of this AFE, i the joint operating agreement, Cimarex Energy Co. Ap thecompletions Manager	e covered by Operator's miums therefore. If you n and limits, at the time f ate of insurance, as prov 100% W.I.) of Combined a \$1,000,000 (100% W.I.) eable change in plans. T the working interest own regulatory order or othe proval Reger A	well control elect to pur his AFE is ret vided herein, deductible. he actual co: er agrees to r applicable Mentger	chase you turned, if a , will result coverage f sts may ex pay its pro	procured by Operator r own well control svailable, but in no event in your being covered for well control and cored the estimated costs oportionate share of

Oil Conservation Division Case No. ______ Exhibit No. ______

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Project Cost Estimate

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Damages 090:105 \$1,000 00:21:05 \$1000 Daw Rate 35(DH Days 3.5(ACP Days) 00:21:0 \$50,000 00:21:0 \$50,000 \$51,000	Lease Name: Snoddy Federal					w	ell No.:	22H
Damages 00c.135 \$1,000 0cc.136 \$1,000 Mud / Huids Disposal Charges 0.0c.255 \$50,000 0cc.135 \$80,000 \$51,000 Mud / Fluids Disposal Charges 0.0c.255 \$50,000 pcc.135 \$80,000 \$51,000 Miss Preparation Cost (mouse hate, rot hole, pads, pile dusters, mic.) 0.0c.135 \$55,000 pcc.135 \$51,000 bcc.135 \$51,000 </td <td>intangibles</td> <td></td> <td></td> <td>Codes</td> <td>Dry Hole Cost</td> <td>Codes</td> <td></td> <td>A DESCRIPTION OF A DESC</td>	intangibles			Codes	Dry Hole Cost	Codes		A DESCRIPTION OF A DESC
Mud Preuds Disposition SS(DA Dary State SS(DA Dary State <thss(da dary="" s<="" td=""><td>Roads & Location Preparation / Restoration</td><td></td><td></td><td>DIDC.100</td><td>\$60,000</td><td>0(CC.100</td><td>\$3,000</td><td>\$63,000</td></thss(da>	Roads & Location Preparation / Restoration			DIDC.100	\$60,000	0(CC.100	\$3,000	\$63,000
Mud / Hulds Disposal Charges 0.02:25 \$50,000 151,000 Day Rate 351,0H Days 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$50,000 0.02:35 \$51,000 \$52,000 \$50,000 \$51,000 \$51,000 \$51,000 \$5	Damages							\$1,000
Day Rate SS/DP Days Per Day Opc.125 S565,000 Oncc.120 S57,000 S51,000	Mud / Fluids Disposal Charges				\$50,000		\$80,000	
Mise Preparation Cost (mouse hole, rat hole, pads, pile dusters, mise.) Opc.125 \$5000 \$5000 Bits DDC.125 \$5000 pile. \$117,000 pile. \$100,015 \$51,000 \$66,000 Water / Completion Fluids IPE Opt DDC.125 \$51,000 \$113,000 \$114,000 \$114,000 \$114,00	Day Rote 35 DH Days 3.5 ACP Days @	1297 2	Per Day	DIDC.115	\$665,000	DICC.120	\$67.000	\$732,000
Let \$3.70 Per Gallon Gallons Per Day Dic.135 \$117,000 Dic.130 \$113,000 Dic.130 \$113,000 Dic.130 \$113,000 Dic.130 \$117,000 Dic.135 \$117,000 S117,000 S117,000 S117,000 S117,000 S117,000 S11	Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, i	nisc.)		DIDC.120	\$5,000		166666889118	\$5,000
Water / Completion Fluids / Per Day Dibc.140 \$33,250 Dict.135 \$147,000 \$50,025 Mud & Additives Bord Cital \$84,700 \$247,000 \$221	Bits			DIDC.125	\$65,000	DICC.125	\$1,000	\$66,000
Mud. Additives DOL155 \$\$4,700 \$\$4,700 \$\$4,700 \$\$54,700 \$\$54,700 \$\$54,700 \$\$54,700 \$\$54,700 \$\$54,700 \$\$54,700 \$\$54,700 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$54,000 \$\$50,000	Fuel \$3.70 Per Gallon	joundroff		DIDC.135	\$117,000	DICC.230	\$1,000	\$118,000
Surface Rentals Per Day Dict.iss \$\$4,000 Dict.iss \$\$147,000 \$\$201,00 Downhole Rentals 000c.155 \$\$125,000 0ict.iss \$\$147,000 \$\$201,00 Downhole Rentals 000c.155 \$\$125,000 0ict.iss \$\$36,000 \$\$16,000 Formation Evuluation (DST, Coring including evaluation, G&G Services) Dict.iss \$\$28,000 \$\$28,000 Open hole Logging 000c.iss \$\$36,0000 Dict.iss \$\$36,0000 Dict.iss \$\$28,000 Camenting & Roat Equipment Dicc.iss \$\$36,0000 Dict.iss \$\$36,0000 \$\$16,000 S\$16,000 \$\$21,400 Casing Crews Dicc.iss \$\$11,0000 Dicc.iss \$\$10,000 Dicc.iss \$\$32,000 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,400 \$\$30,000 \$\$21,4000 \$\$21,400 \$\$20,400	Water / Completion Fluids	e se	Per Day	DIDC.140	\$33,250	DICC.135	\$147,000	\$180,250
Downhole Rentals Dot.155 \$12,000 Duct.14s \$36,000 \$15,100 Formation Evaluation (DST, Coring including evaluation, G&G Services) Dito.150 S S Mud.Logging \$1,200 Days @ 20 Per Day Dito.150 S Open Hole Logging Dito.150 S S S S S Cementing & Float Equipment Dito.150 S	Mud & Additives			DIDC.145	\$84,700		ta da se	\$84,700
Formation Evaluation (DST, Caring including evaluation, G&G Services) DDC.160 Status	Surface Rentals		Per Day	DIDC.150	\$54,000	DICC.140	\$147,000	\$201,000
Mud Logging \$1,200 Days @ 20 [Per Day DOC.173 \$28,000 \$28,000 Open Hole Logging 0.000 \$15,000 \$15,000 \$15,000 \$15,000 \$12,000 \$10,000 \$22,000 \$12,000 \$10,000 \$12,000				D:0C.155	\$125,000	DICC.145	\$36,000	\$161,000
Open Hole Logging Discuss S15,000 Discuss S15,000 Cementing & Float Equipment Discuss \$98,000 Discuss \$88,000 \$184,000 Tubular Inspections Discuss \$98,000 Discuss \$10,000 S10,000 Casing Crews Discuss \$11,000 Discuss \$10,000 S11,000 S11,000 S12,400 Land Transporation (Trucking) Discuss \$11,000 Discuss \$32,000 \$98,000 Supervision Per Day Discuss \$32,000 Discuss \$34,000 Outerhead 300 Per Day Discuss \$51,000 Discuss \$32,000 \$31,000 \$32,000 \$31,000 \$32,000 \$31,000 \$31,000 \$31,000 \$32,000 \$31,000 \$31,000 \$32,000 \$31,	Formation Evaluation (DST, Coring including evaluation, G&G Se	rvices)		DIDC.160	-		and the second	\$0
Cementing & Float Equipment DOC.125 \$98,000 DICC.155 \$86,000 \$184,000 Tubular Inspections DDC.195 \$5,000 DIC.105 \$5,000 \$50,000 \$20,000 \$36,000 \$20,000 \$36,000 \$20,000 \$36,000 \$20,000 \$21,000 DIC.105 \$18,000 \$20,000 \$21,000 DIC.216 \$10,000 \$21,000 DIC.2170 \$10,400 \$21,000 S46,000 \$31,000 DIC.2170 \$10,400 \$21,000 S46,000 \$31,000 DIC.218 \$7,000 \$38,000 \$38,000 \$20,000 \$38,000 \$20,000 \$39,000 DIC.228 \$32,000 \$30,000 \$30,000 DIC.228 \$32,000 \$20,000 \$39,000 DIC.228 \$30,000 \$20,000 \$30,000	Mud,Logging \$1,200	Days @	20 Per Day	DIDC.170	\$28,000	1969444	ang	\$28,000
Tubular Inspections DDC.19C \$5,000 S5,000 \$10,000 Casing Crews DDC.19F \$18,000 DDC.13F \$18,000 DDC.13F \$18,000 S13,000 DDC.13F \$10,000 S13,000 DDC.13F \$10,000 S11,000 DDC.13F \$7,000 \$13,800 \$33,000 \$11,000 DDC.13F \$7,000 \$31,900 DDC.13F \$7,000 \$31,900 DDC.13F \$7,000 \$31,900 DDC.13F \$7,000 \$32,000 \$32,000 DDC.13F \$7,000 \$39,00 DDC.23F \$21,000 DDC.23F \$30,000 \$11,000 \$30,000 \$31,000 DDC.23F \$30,000 \$31,000 \$31,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000 \$30,000	Open Hole Logging			0/00.180	\$15,000			\$15,000
Casing Crews DDC.195 \$18,000 DIC.265 \$18,000 \$36,00 Extra Labor, Welding, Etc. DDC.200 \$11,000 over.175 \$7,000 \$11,000 sec.175 \$7,000 \$18,00 Supervision Per Day DDC.220 \$51,000 bvc.175 \$7,000 \$18,00 Tailer Hoise / Camp / Catering Per Day DDC.220 \$52,000 bvc.135 \$7,000 \$9,00 Outerhead 300!Per Day DDC.220 \$2,000 bvc.135 \$7,000 \$9,00 Outerhead 300!Per Day Dvc.235 \$12,000 bvc.235 \$3,000 \$10,000 Discretional Drilling Services 14 [Days @] 12,800]Per Day Dvc.235 \$10,000 \$204,000 Marine & Ali Transportation Divc.235 \$10,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000	Cementing & Float Equipment			DIDC.185	\$98,000	DICC.155	\$86,000	\$184,000
Extra Labor, Welding, Etc. DiDC.206 \$11,000 ord(C170 \$10,040 \$21,00 Lond Transportion (Trucking) DiDC.205 \$11,000 DiCC.175 \$7,000 \$18,00 Supervision Per Day DiDC.205 \$11,000 DiCC.175 \$7,000 \$18,00 Supervision Per Day DiDC.206 \$32,000 DiS28,00 \$39,00 DiCC.205 \$32,000 \$00,235 \$4,000 \$20,000 DiCC.205 \$37,000 \$9,00 DiCC.205 \$31,000 DiCC.205 \$37,000 \$9,00 \$00,235 \$12,000 DiCC.205 \$31,000 \$10,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$100,233 \$10,000 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$100,000 \$110,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 \$100,000 </td <td>Tubular Inspections</td> <td></td> <td></td> <td>DIDC.190</td> <td>\$5,000</td> <td>DICC.160</td> <td>\$5,000</td> <td>\$10,000</td>	Tubular Inspections			DIDC.190	\$5,000	DICC.160	\$5,000	\$10,000
Lond Transporation (Trucking) Disc.os \$11,000 Picc.iss \$7,000 \$18,00 Supervision Per Day Disc.os \$40,000 Disc.os \$32,000 \$38,00 Trailer House / Camp / Catering Per Day Disc.os \$32,000 Disc.os \$4,000 \$39,00 Other Misc Expenses Disc.os \$2,000 Disc.os \$7,000 \$9,00 Overhead 300 Per Day Disc.os \$12,000 Disc.os \$7,000 \$9,00 Disc.os \$12,000 Disc.os \$7,000 \$9,00 Disc.os \$7,000 \$9,00 Overhead 300 Per Day Disc.os \$12,000 Disc.os \$20,000 Disc.os \$20,000 Disc.os \$20,000 S110,000 \$110,000 \$110,000 \$110,000 \$20,000 Disc.os \$20,000 S204,000 S204,000 \$20,000 S204,000 S204,000 S204,000 S204,000 S20,000 S20,000 S20,000 S20,000 S20,000 S25,000 S46,000 S25,000 <td>Casing Crews</td> <td></td> <td></td> <td>DIDC.195</td> <td>\$18,000</td> <td>DICC.165</td> <td>\$18,000</td> <td>\$36,000</td>	Casing Crews			DIDC.195	\$18,000	DICC.165	\$18,000	\$36,000
Supervision Per Day DIDC.226 \$66,000 DICC.150 \$32,000 \$98,000 Trailer House / Camp / Catering Per Day PIDC.220 \$35,000 DICC.255 \$4,000 \$39,00 Other Misc Expenses DIDC.220 \$2,000 DICC.155 \$3,000 \$53,000 \$53,000 \$53,000 \$53,000 \$53,000 \$53,000 \$53,000 \$53,000 \$53,000 \$53,000 \$51,000 \$52,000 \$55,000 \$52,000 \$55,000 \$52,000 \$52,000 \$52,000 \$55,000 \$52,000 \$55,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000 \$52,000	Extra Labor, Welding, Etc.			DIDC.200	\$11,000	D(CC.170	\$10,400	\$21,400
Trailer House / Camp / Catering Per Day Dirc.220 \$35,000 Dirc.235 \$4,000 \$39,00 Other Misc Expenses 010C.220 \$2,000 Dirc.215 \$3,000 \$15,000 Owerhaad 300\Per Day Dirc.235 \$12,000 Dirc.215 \$3,000 \$15,000 Remedial Cementing Dirc.231 Dirc.233 Dirc.235 \$204,000 \$110,000 \$110,000 \$110,000 \$110,000 \$204,000 \$206,000 </td <td>Lond Transporation (Trucking)</td> <td></td> <td></td> <td>DIDC.205</td> <td>\$11,000</td> <td>DICC.1.75</td> <td>\$7,000</td> <td>\$18,000</td>	Lond Transporation (Trucking)			DIDC.205	\$11,000	DICC.1.75	\$7,000	\$18,000
Trailer House / Camp / Catering Per Day CIDC.220 \$35,000 DICC.235 \$4,000 \$39,00 Other Misc Expenses DIC.220 \$2,000 DICC.235 \$3,000 \$9,00 Overhead 300 Per Day DICC.235 \$12,000 DICC.235 \$32,000 \$15,000 MOB/DEMOB DIDC.231 DICC.233 DICC.233 \$10,000 \$110,000 \$110,000 \$204,000 \$200,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$204,000 \$206,000 \$206,000 \$206,000	Supervision	- 18 at a	· Per Day	DIDC.216	\$66,000	DICC.180	\$32,000	\$98,000
Overhead 300 Per Day 512,000 Dicc.155 \$33,000 \$15,00 Remedial Cementing Dicc.233 Dicc.233 Dicc.233 S \$10,000 \$100,000 \$100,000 \$	Trailer House / Camp / Catering	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Per Day	0100.280	\$35,000	DICC.255	\$4,000	\$39,000
Remedial Cementing DIC.231 DIC.235 S MOB/DEMOB DIC.240 \$110,000 \$110,000 \$110,000 \$110,000 \$110,000 \$204,000 \$	Other Misc Expenses			0100.220	\$2,000	DICC.190	\$7,000	\$9,000
MOB/DEMOB DiDC.240 \$110,000 Directional Drilling Services 14 Days @ 12,800 Per Day DiDC.235 \$204,000 Dock, Dispatcher, Crane DiDC.235 \$204,000 \$204,000 Marine & Air Transportation DiDC.235 DiCC.230 \$ Solids Control DiDC.235 DiCC.230 \$ Well Control Equip (Snubbing Svrs.) Per Day DiDC.236 \$ Fishing & Sidetrack Operations DiDC.237 \$ DiCC.240 \$ Completion Rig 6 Days @ 3,400 Per Day DiCC.245 \$ \$ Completion Logging, Perforating, WL Units, WL Surveys 10 Days @ Per Day DicC.240 \$ \$ \$ Stimulation ' DicC.245 \$	Overhead	3	00 Per Day	010C.225	\$12,000	DICC.195	\$3,000	\$15,000
Directional Drilling Services 14 Days @ 12,800 Per Day Dicc.225 \$104,000 \$204,000 Dock, Dispatcher, Crane Dicc.236 Dicc.236 Dicc.236 S Marine & Alir Transportation Dicc.236 Dicc.236 S Solids Control Per Day Dicc.236 Dicc.236 \$46,000 Well Control Equip (Snubbing Svcs.) Per Day Dicc.236 \$35,000 Dicc.246 \$25,000 \$55,000 Fishing & Sidetrack Operations Dicc.236 S \$30,000 Dicc.246 \$25,000 \$32,00	Remedial Cementing			DIDC.231		DICC.215		\$0
Dock, Dispatcher, Crane DIC.250 DIC.250 S Marine & Air Transportation DIC.250 S S Solids Control DIC.250 DIC.250 S Solids Control Per Day DIC.250 S46,000 Well Control Equip (Snubbing Svcs.) Per Day DIC.250 S46,000 Fishing & Sidetrack Operations DIC.250 S46,000 S55,000 Completion Rig 6 Days @ 3,400 Per Day DIC.250 S42,000 S42,000 </td <td>МОВ/ДЕМОВ</td> <td></td> <td></td> <td>DIDC.240</td> <td>\$110,000</td> <td></td> <td>COMMENTS S</td> <td>\$110,000</td>	МОВ/ДЕМОВ			DIDC.240	\$110,000		COMMENTS S	\$110,000
Marine & Air Transportation Dicc.275 Dicc.226 \$ Solids Control Per Day Dicc.236 \$46,000 \$46,000 Well Control Equip (Snubbing Svcs.) Dicc.236 \$30,000 Dicc.240 \$25,000 \$55,000 Fishing & Sidetrack Operations Dicc.246 \$30,000 Dicc.246 \$32,000	Directional Drilling Services 14	Days @ 12,8	00 Per Day	DIDC.245	\$204,000		ana an	\$204,000
Solids Control Per Day DiDC 260 \$46,000 Well Control Equip (Snubbing Svcs.) DiDC 265 \$30,000 DiCC 240 \$25,000 \$55,000 Fishing & Sidetrack Operations DiDC 265 \$30,000 DiDC 246 \$52,000 \$55,000 Completion Rig 6 Days @ 3,400 Per Day DiDC 265 \$32,000 \$32,000 Coll Tubing 1 Days @ Per Day DiCC 245 \$32,000 \$45,000 \$32,000	Dock, Dispatcher, Crane			0100.250		DICC.230]	\$0
Well Control Equip (Snubbing Svcs.) btoc.265 \$30,000 btoc.240 \$25,000 \$55,000 Fishing & Sidetrack Operations Dtoc.270 \$00 Dtoc.245 S Completion Rig 6 Days @ 3,400 Per Day Dtoc.270 \$00 Dtoc.245 S Completion Rig 1 Days @ Per Day Dtoc.245 \$32,000 \$32,0	Marine & Air Transportation			DIDC.275		DICC.250		\$0
Fishing & Sidetrack Operations DID: 270 \$00 DIC: 285 S Completion Rig 6 Days @ 3,400 Per Day DIC: 118 \$32,000 \$32,000 Completion Rig 1 Days @ Per Day DIC: 215 \$32,000 \$32,000 Completion Logging, Perforating, WL Units, WL Surveys 1 Days @ Per Day DIC: 226 \$45,000 \$45,000 Stimulation 1 Days @ Per Day DIC: 226 \$20,010,000 \$71,000 \$70,000 \$70,000 \$71,000 \$75,000 \$50,000 \$50,000 \$55,000 \$50,000 \$51,000 \$50,000 \$148,000 \$10,000 \$10,000 \$10,000 \$148,000 \$10,000 \$148,000 \$148,000 \$148,000 \$148,000 \$148,000<	Solids Control		Per Doy	DIDC.250	\$46,000	198 (1870)	an a	\$46,000
Completion Rig 6 Days @ 3,400 Per Day DICC.115 \$32,000<	Well Control Equip (Snubbing Svcs.)			DIDC.265	\$30,000	DICC.240	\$25,000	\$55,000
Coll Tubing 1 Days @ Per Day DicC.250 \$45,000 \$45,000 \$45,000 \$545,000 \$545,000 \$545,000 \$570,000 \$70,000 \$70,000 \$70,000 \$70,000 \$70,000 \$570,000 \$52,010,000 \$22,010,000	Fishing & Sidetrack Operations			DIDC.270	\$0	DICC.245	1	\$0
Completion Logging, Perforating, WL Units, WL Surveys Dice.200 \$345,000 \$45,000 \$570,000 \$570,000 \$570,000 \$570,000 \$570,000 \$570,000 \$570,000 \$570,000 \$50,000 \$570,000 \$50,000 \$570,000 \$570,000 \$50,000 \$570,000 \$50,000 \$55,000 \$60,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$55,000 \$51,000	Completion Rig 6	Days @ 3,4	00 Per Day	Carrie Contractor	11801283	DICC.115	\$32,000	\$32,000
Completion Logging, Perforating, WL Units, WL Surveys Dicc.200 \$70,000 \$70,000 \$70,000 \$70,000 \$70,000 \$70,000 \$70,000 \$52,010,000 \$22,010,000	Coll Tubing	Days @	Per Day	111111	S. B. Martin	DICC.260	\$45,000	\$45,000
Stimulation DicC210 \$2,010,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$10,000 \$75,000 \$75,000 \$75,000 \$75,000 \$75,000 \$75,000 \$75,000 \$75,000 \$51,0,000 \$10,000	Completion Logging, Perforating, WL Units, WL Surveys			- 1999		DICC.200	\$70,000	
Legal / Regulatory / Curative DiOC.250 \$13,000 Oric.250 \$13,000 Well Control Insurance \$0.35 Per Foot DiOc.255 \$5,000 \$5,000 Contingency \$96,000 DiOc.255 \$50,000 \$148,000 Construction For Well Equipment \$10,000 \$10,000 \$10,000 \$10,000 Construction For Less Equipment \$10,000 \$10,000 \$10,000 \$10,000 Construction For Sales P/L \$0,000 \$10,000 \$10,000 \$10,000	Stimulation)	anna an	the second	DICC 210		
Well Control Insurance \$0.35 Per Foot DiOC.225 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$5,000 \$148,000 \$10,000 \$148,000 \$10,000	Legal / Regulatory / Curative			0:00.305	\$13.000	0(00.280	1	\$13,000
Contingency 5% of Drilling Intangibles DIDC.425 \$98,000 DICC120 \$\$0,000 \$148,000 Construction For Well Equipment DWE4.110 \$10,000 \$10,			****			12273 1227 2 2027	TA MANATA	\$5,000
Construction For Well Equipment DWE4.110 \$10,000 <t< td=""><td>Contingency 5% of Drilling Intangibles</td><td></td><td></td><td></td><td></td><td>and the second secon</td><td>and the second sec</td><td></td></t<>	Contingency 5% of Drilling Intangibles					and the second secon	and the second sec	
Construction For Lease Equipment DISC0.110 \$75,000 \$75,000 Construction For Sales P/L OICC265 \$10,000 \$10,000	the second se			COMONTAL.				
Construction For Sales P/L 0xC2255 \$10,000 \$10,00				8.10.20				(
	and the second			- C. M. C. M.				······································
Total intangine Cost S2.981.400 S5.048.35	Total Intangible Cost	····		<u></u>	\$2,066,950		\$2,981,400	\$5,048,350

Tangible - Well Equipment					ka barye ya turi guji Galaka kata kata	kere in a		
Casing	Size	Feet	\$/Foot		a na mana an	sustan.	all an	the startes the
Drive Pipe	36	120.00	\$180.00	DWE8.150	\$22,000			\$22,000
Conductor Pipe	i seta a c		and a second second	DWE8.130	\$0	1999	5111HH	\$0
Water String	20 "	1090.00	\$136.78	DWE8.135	\$149,000		ana an	\$149,000
Surface Casing	13-3/8"	3524.00	\$83.03	DWE2.140	\$293,000		un an	\$293,000
Intermediate Casing	9 5/8"	\$200.00	\$42.13	OWE8.145	\$219,000	and and a start	the states of the second s	\$219,000
Drilling Liner	· · · · · ·	er en	a de transferancia	DWE8.145	\$0	0.000	amana.	\$0
Drilling Liner	11 a 1 a 1 m	and a state	par strategies	OWE9.145	\$0	1.1.1.1.	Marga Marga	50
Production Casing or Liner	5 1/2"	14000.00	\$20.54		e an	DWEA.190	\$291,000	\$291,000
Production Tie-Back			the state of the		1.	DWEA.100	\$0	\$0
Tubing	2 7/8"	9000.00	\$8.14		en an	DWEA.105	\$73,000	\$73,000
N/C Well Equipment					a an	DWEA.115	\$72,500	\$72,500
Wellhead, Tree, Chokes				DWE8.115	\$13,000	DWEA.120	\$18,000	\$31,000
Liner Hanger, Isolation Packer				DW88.100	\$0	DWEA.125	\$10,000	\$10,000
Packer, Nipples				an a		DWEA.230	\$0	\$0
Pumping Unit, Engine				6.1.18.18		D1EQ.100	\$145,000	\$145,000
Lift Equipment (BHP, Rods, Anchors)	- Blanda Links State			aon an	Section 20	DLEQ.105	\$9,000	\$9,000
Tangible - Lease Equipment								
N/C Lease Equipment					an a	0150,115	\$64,500	\$64,500
Tanks, Tanks Steps, Stairs				11.11	4694340	0180.120	\$64,250	\$64,250
Battery (Heater Treater, Separator, Gas Treating Equipment)				81. C. M.		0152.125	\$32,500	\$32,500
Flow Lines (Line Pipe from wellhead to central facility)					amana	0160,130	\$5,500	\$5,500
Offshore Production Structure for Facilities				1189.19	an a	DWEA.135	\$0	\$0
Pipeline to Sales				1999	A MARTAN	DWEA.140	\$0	\$0
Total Tangibles					\$696,000		\$785,250	\$1,481,250
P&A Costs				DIDC.295	\$150,000	DICC.275	-\$150,000	\$0
Total Cost					\$2,912,950		\$3,616,650	\$6,529,600





Authorization For Expenditure

Company Entity Cimarex Energy C							Date Riepar		1, 2012	
Region		me	Well No.	Prospect or Field N	ame	Property Number		Drilling	AFE No	
Permian	Snoddy Fe	·	23H	Mitchell						
Location				County		State		Тур	Well	
Est SHL: 811 FNL	& 644 FEL Sec 26, 2			Lea		NM	Oil	×	Expl	×
EST BHL: 2310 FSL	. & 330 FWL Sec 26	, 205-32E		<u>.</u>		L	Gas		Prod	JJ
Estimate Type				st Start Date	Reflection for	st. Comp Date	Forma	tion		ured Depth
Original Estimate Revised Estimate		0					Воле Si	rina	The second s	,300'
Supplemental Est	imate	- V					DOUG 3	Jung	Contraction of the local states of the	Gall@epilits # 900'
A second s	20 Sone spring ho	Condescription and the second s	A RESIDENT ACTIVITY OF A DESCRIPTION							
Intangibles				Dry Hole Cost	:	After Casing F	Point	Corr	pleted We	ll Cost
Drilling Costs				\$2,066,950					\$2,066,95	0
Completion Costs				1		\$2,981,40			\$2,981,40	
Total Intangible	wsts			\$2,066,950		\$2,981,40	U		\$5,048,35	<u></u>
Tangibles		·····	•							
Well Equipment				\$696,000	***	\$618,500			\$1,314,50	
Lease Equipment				<u> </u>	MAR H				\$166,750	
Total Tangible W	ren LOST	<u></u>		\$696,000		\$785,250	, 		\$1,481,25	
Plug and Abando	on Cost			\$150,000		-\$150,000	<u>) </u>		\$0	
Total Well Cost				\$2,912,950		\$3,616,65	0		\$6,529,60	0
Unless otherwise so long as Opera insurance, you m later than comm by insurance pro leter to purc Well control insu	e indicated below, y tor conducts opera- nust provide a certi- encement of drillin ocured by Operator hase my own well contro- urance procured by	you, as a non-op itions hereunde ficate of such in ig operations. Y ol insurance policy. Operator, prov	perating wo er and to pa nsurance ac (ou agree ti vides, amon	rking interest owner, agr y your prorated share of ceptable to Operator, as nat failure to provide the g other terms, for \$20,00	ee to be c the premi to form ar certificate 0,000 (100	covered by Operator's ums therefore. If you nd limits, at the time th e of insurance, as provi of W.I., of Combined :	well control ir elect to purch nis AFE is retur Ided herein, w Single Limit co	isurance p ase your o med, if av ill result i	rocured by own well o ailable, but n your beir	y Operator ontrol t in no event ig covered
The above costs without affecting	g the authorization	and anticipate for expenditure	trouble free e herein gra	e operations without any inted. By approval of this the joint operating agree	foreseeat s AFE, the	ole change in plans. Th working interest owne	r agrees to pa	y its prop	ortionate s	hare of
				Cimarex Energy C		The second s				
Prepared by			{	d Completion Manager		i	Manager			
Mark Audas		·····	Doug Park	<		Roger Ale	exander			
				10						
Company			EVIL	Joint Interest .	нрргоча	l Date				
L			<u> </u>							
				Oil Conserva Case No. Exhibit No.	ation	Division			8/8/20	012 10:56 AN



A. 10

Project Cost Estimate

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Lease Name: Snoddy Federal						We	ll No.:	23H
Intangibles				Codes	Dry Hole Cost	Cades	After Casing Point	Completed Well Cost
Roads & Location Preparation / Restoration				DID5.100	\$60,000	DICC.100	\$3,000	\$63,000
Damages				DIDC.105	\$1,000	DICC.105		\$1,000
Mud / Fluids Disposal Charges				0100.255	\$50,000	C+CC.235	\$80,000	\$130,000
Day Rate 35 DH Days 3.5 ACP	Days @	[····	Per Day	DIDC.115	\$665,000	DICC.120	\$67,000	\$732,000
Misc Preparation Cast (mouse hale, rat hale, pads, pile a	·	0100.120	\$5,000	19991	se and se	\$5,000		
Bits				DIDC.125	\$65,000	DICC.125	\$1,000	\$66,000
Fuel \$3.70 Per Gallon		Gallons Per D	ay	010C,135	\$117,000	DICC.130	\$1,000	\$118,000
Water / Completion Fluids		1	Per Day	0100.140	\$33,250	DICC.135	\$147,000	\$180,250
Mud & Additives			*****	0:DC.145	\$84,700	anna an the	Carrien and Carrie and C	\$84,700
Surface Rentals		· · · ·	Per Day	DIDC.250	\$54,000	DICC.140	\$147,000	\$201,000
Downhole Rentals				DIDC.355	\$125,000	DICC.145	\$36,000	\$161,000
Formation Evaluation (DST, Coring including evaluation,	G&G Services)			DIDC.160	(and the second	the and the second s	\$0
Mud Logging	\$1,200 Days @	20	Per Day	DIDC.170	\$28,000		an a	\$28,000
Open Hole Logging				DIDC.180	\$15,000			\$15,000
Cementing & Float Equipment			·····	0100.185	\$98,000	DICC.155	\$86,000	
Tubular Inspections				DIDC.190	\$5.000	DICC.160	\$5,000	the second s
Casing Crews				DIDC.195	\$18,000		\$18,000	·······
Extra Labor, Welding, Etc.				DIDC.200	\$11,000	DICC.170	\$10,400	the second se
Land Transporation (Trucking)			*****	0/00.205	\$11,000		\$7,000	
Supervision			Per Doy	DIDC.219	\$56,000		\$32,000	·
Trailer House / Camp / Catering		<u> </u>	Per Day	DIDC.280	\$35,000	DICC.255	\$4,000	
Other Misc Expenses		J		0000.220	\$2,000		\$7,000	
Overhead		300	Per Doy	DIDC, 225	\$12,000		\$3,000	
Remedial Cementing				DIDC.331	1.5/55	DICC.215		50
MOB/DEMOB				DIDC.240	\$110,000	1.1.1.1.1.1.1	ana ana	\$110,000
Directional Drilling Services	14 Doys @	12 800	Per Day	DIDC.245	\$204,000	1000	1101111	\$204.000
Dock, Dispatcher, Grane	51-566			DIDC.250	+,,	DICC.239	 	\$0
Marine & Air Transportation				DIDC.275		DICC.250	·	\$0
Solids Control			Per Dav	DIDC.260	\$46,000		an a	\$46,000
Well Control Equip (Snubbing Svcs.)			1. 61 2 61	DIDC.265	\$30,000		\$25,000	· · · · · · · · · · · · · · · · · · ·
Fishing & Sidetrack Operations			******	DIDC.270	\$0 \$0		· · · · · · · · · · · · · · · · · · ·	\$35,000
Completion Rig	6 Doys @	3 401	Per Day	1.1.1.1.1.1.1.1.1	COMPLEX CONTRA	DICC.115	\$32,000	
	1 Davs @	1	Per Dav	A. Martin		DICC.260	\$45,000	the second se
Completion Logging, Perforating, WL Units, WL Surveys		d		- 600 100		DICC.200	\$70,000	
Stimulation				- (1997)		DICC.210	\$2,010,000	
Legal / Regulatory / Curative				DIDC.300	\$13,000		1 02,010,000	\$13,000
Well Control Insurance \$0.35 Per	Foot			DIDC.285	\$5.000	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$5,000
Contingency 5% of Drilling Inter	·····			DIDC.485	\$98,000	the second s	\$50,000	
Construction For Well Equipment	1910109			THE THE	255,000 1.1.1.5.5.6.6.5.5.6.6.6.6.6.6.6.6.6.6.6.	DWEA.110	\$10,000	
Construction For Lease Equipment				-944999		DUEC.110	\$75,000	the second secon
Construction For Sales P/L							\$10,000	
Total Intangible Cost				SELVER, 6 9.9.881	\$2,066,950	DICC.265	\$2,981,400	
Loren mithelight cost				C.	<i>32,000,950</i>		42,301,400	000000

Casing	Size	Feet	\$/Foot	66999999	1111111111111	1	Star Star	Self States States
Drive Pipe	36 "	120.00	\$180.00	DWE9.150	\$22,000			\$22,000
Conductor Pipe	1 - 2 - 2 - 2		1.1.1.1.1.1	DWE6.130	\$0	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	an a	\$0
Water String	20 "	1090.00	\$136.78	OW 53.135	\$149,000		MALLANS	\$149,000
Surface Casing	13-3/8"	3524.00	\$83.03	OW68.140	\$293,000	9111 B		\$293,000
Intermediate Casing	9 5/8"	5200.00	\$42.13	OWEB.145	\$219,000	an a	aaan	\$219,000
Drilling Liner	and the second	the settered	server at a	DWEE.145	\$0		aaaaa	\$0
Drilling Liner	and the second	<u> </u>	ne produka	DWE8,145	\$0			\$0
Production Casing or Liner	5 1/2"	14000.00	\$20.54			OWEA:100	\$291,000	\$291,000
Production Tie-Back)			Carlle Contractor	OWEA.105	\$0	\$0
Tubing	2 7/8"	9000.00	\$8.14		an a	OWEA.305	\$73,000	\$73,000
N/C Well Equipment				999999		DWEA.115	\$72,500	\$72,500
Wellhead, Tree, Chokes				OW58.115	\$13,000	OWEA.120	\$18,000	\$31,000
Liner Hanger, Isolation Packer				OWE9.200	\$0	DWEA.125	\$10,000	\$10,000
Packer, Nipples	``````````````````````````````````````			Sec. Sec. Se	a an a se	DWEA.130	\$0	\$0
Pumping Unit, Engine				and the		DLEQ.100	\$145,000	\$145,000
Lift Equipment (BHP, Rods, Anchors)	and a straight of the burgers of the			(Marille)	an a	DLEQ.105	\$9,000	\$9,000
Tangible - Lease Equipment								
N/C Lease Equipment				and the second s	an a	DLEQ.125	\$64,500	\$64,500
Tanks, Tanks Steps, Stairs				915 A.M.	Manana an a	DLEQ.120	\$64,250	\$64,250
Battery (Heater Treater, Separator, Gas Treating Equipmer	nt)			11111	Section of the sectio	DLEQ.125	\$32,500	\$32,500
Flow Lines (Line Pipe from wellhead to central facility)				3838644		DLEQ, 130	\$5,500	\$5,500
Offshore Production Structure for Facilities				611911		DWEA.135	\$0	\$0
Pipeline to Sales				AL COLOR	an a	OWEA.140	\$0	\$C
Total Tangibles					\$696,000		\$785,250	\$1,481,250
P&A Costs				DIDC,295	\$150,000	DICC.275	-\$150,000	\$(
Total Cost					\$2,912,950		\$3,616,650	\$6,529,60