



## Project Cost Estimate

Well Name: Baustert 1H-2920K

	BCP - Drilling (Dry Hole Cost)		ACP - Drilling		Completion / Stimulation		Production Equipment / Construction		Post Completion		Total Well Cost
	Codes		Codes		Codes		Codes		Codes		
Intangibles											
Roads & Location Preparation / Restoration	DIDC.100	\$200,000			STIM.100	\$30,000	CON.100	\$2,500	PCOM.100	\$1,000	\$233,500
Damages	DIDC.105	\$26,000					CON.105				\$26,000
Mud / Fluids Disposal Charges	DIDC.255	\$100,000			STIM.255	\$60,000			PCOM.255	\$149,850	\$309,850
Day Rate	DIDC.115	\$450,000	DICC.120	\$78,000							\$30,000
Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	DIDC.120	\$30,000							PCOM.125		\$130,000
Bits	DIDC.125	\$130,000	DICC.125		STIM.125				PCOM.130		\$78,000
Fuel	DIDC.135	\$78,000	DICC.130						PCOM.135	\$1,000	\$22,000
Water for Drilling Rig / Completion Fluids (Not Frac Water)	DIDC.140	\$15,000	DICC.135	\$1,000	STIM.135	\$5,000					\$278,000
Mud & Additives	DIDC.145	\$278,000									\$352,000
Surface Rentals	DIDC.150	\$49,000	DICC.140		STIM.140	\$120,000	CON.140	\$4,000	PCOM.140	\$179,000	\$125,000
Downhole Rentals	DIDC.155	\$45,000			STIM.145	\$80,000			PCOM.145		\$0
Formation Evaluation (DST, Coring including evaluation, G&G Services)	DIDC.160				STIM.150						\$27,000
Mud Logging	DIDC.170	\$27,000									\$0
Open Hole Logging	DIDC.180										\$130,000
Cementing & Float Equipment	DIDC.185	\$50,000	DICC.155	\$80,000							\$23,700
Tubular Inspections	DIDC.190	\$15,000	DICC.160	\$5,000	STIM.160				PCOM.160	\$3,700	\$30,000
Casing Crews	DIDC.195	\$15,000	DICC.165	\$15,000	STIM.165						\$92,000
Extra Labor, Welding, Etc.	DIDC.200	\$10,000	DICC.170	\$2,000	STIM.170		CON.170	\$80,000	PCOM.170		\$43,600
Land Transportation (Trucking for tangibles)	DIDC.205	\$14,000	DICC.175	\$8,000	STIM.175	\$5,000	CON.175	\$9,800	PCOM.175	\$6,800	\$218,400
Supervision	DIDC.210	\$129,000	DICC.180	\$10,000	STIM.180	\$59,000	CON.180	\$6,800	PCOM.180	\$13,600	\$30,000
Trailer House / Camp / Catering	DIDC.280	\$18,000	DICC.255	\$2,000	STIM.280	\$10,000					\$29,900
Other Misc Expenses	DIDC.220	\$1,000	DICC.190		STIM.190	\$25,000	CON.190	\$3,900	PCOM.190		\$15,000
Overhead	DIDC.225	\$10,000	DICC.195	\$5,000					PCOM.215		\$0
Remedial Cementing	DIDC.231				STIM.215						\$195,000
MOB/DEMOB	DIDC.240	\$195,000									\$280,000
Directional Drilling Services	DIDC.245	\$280,000					CON.230	\$4,000			\$23,000
Crane for Construction											\$75,350
Solids Control	DIDC.260	\$23,000			STIM.240	\$20,000			PCOM.240	\$25,350	\$0
Well Control Equip (Snubbing Svcs.)	DIDC.265	\$26,000	DICC.240	\$4,000	STIM.245				PCOM.245		\$13,800
Fishing & Sidetrack Operations	DIDC.270		DICC.245		STIM.255				PCOM.260		\$200,000
Completion Rig					STIM.260	\$200,000			PCOM.200	\$3,500	\$191,500
Coil Tubing					STIM.200	\$188,000			PCOM.390		\$62,000
Completion Logging, Perforating, WL Units, WL Surveys					STIM.390	\$62,000			PCOM.210		\$2,423,000
Composite Plugs					STIM.210	\$2,423,000					\$315,000
Stimulation Pumping Charges, Chemicals, Additives, Sand					STIM.395	\$315,000					\$50,000
Stimulation Water / Water Transfer / Water Storage					STIM.305	\$50,000					\$15,000
Cimarex Owned Frac / Rental Equipment							CON.300				\$19,000
Legal / Regulatory / Curative	DIDC.300	\$15,000									\$34,000
Well Control Insurance	DIDC.285	\$19,000			STIM.220	\$183,000	CON.220	\$6,000	PCOM.220	\$20,000	\$3,500
Contingency	DIDC.435	\$112,000	DICC.220	\$13,000			CON.310	\$3,500			\$0
Construction For Flow Lines							CON.265				\$0
Construction For Sales P/L											\$0
Total Intangible Cost		\$2,360,000		\$223,000		\$3,835,000		\$120,500		\$417,600	\$6,956,100

Tangible - Well Equipment	Size	Feet	\$ / Foot								
Casing				DWEB.150		\$0					\$0
Drive Pipe				DWEB.130		\$0					\$0
Conductor Pipe				DWEB.135		\$0					\$0
Water String	13 3/8"	1500	\$40.00	DWEB.140		\$60,000					\$60,000
Surface Casing	9 5/8"	10150	\$32.00	DWEB.145		\$325,000					\$325,000
Intermediate Casing 1	0	0	\$0.00	DWEB.155		\$0					\$0
Intermediate Casing 2	0	0	\$0.00	DWEB.160		\$0					\$0
Drilling Liner	5 1/2"	18590	\$18.00		DWEA.100	\$335,000					\$335,000
Production Casing or Liner	0	0	\$0.00		DWEA.165		STIMT.101				\$0
Production Tie-Back	2 3/8"	10730	\$5.10				STIMT.105			PCOMT.105	\$70,000
Tubing				DWEB.115	\$35,000	DWEA.120	\$43,000	STIMT.120	\$40,000		\$118,000
Wellhead, Tree, Chokes				DWEB.100		DWEA.125					\$0
Liner Hanger, Isolation Packer							STIMT.400	\$5,000		PCOMT.400	\$1,800
Packer, Nipples							STIMT.405			PCOMT.405	\$0
Pumping Unit, Engine							STIMT.410			PCOMT.410	\$0
Downhole Lift Equipment (BHP, Rods, Anchors, ESP, GVLs, PC Pump)											\$0
Tangible - Lease Equipment									CONT.400	\$74,448	\$74,448
N/C Lease Equipment									CONT.405	\$40,700	\$40,700
Tanks, Tanks Steps, Stairs									CONT.410	\$95,275	\$95,275
Battery (Heater Treater, Separator, Gas Treating Equipment)									CONT.415	\$25,700	\$25,700
Secondary Containments									CONT.420	\$3,000	\$3,000
Overhead Power Distribution (electric line to facility)									CONT.425	\$57,200	\$57,200
Facility Electrical & Automation									CONT.430		\$0
SWD Connection									CONT.435	\$23,200	\$23,200
Flow Lines (Line Pipe from wellhead to central facility)									CONT.440		\$0
Pipeline to Sales									CONT.445	\$32,800	\$32,800
Meters and Metering Equipment											\$0
Total Tangibles					\$420,000	\$378,000	\$45,000		\$352,323	\$71,800	\$1,267,123
P&A Costs				DIDC.295	\$0	DICC.275	\$0				\$0
Total Cost					\$2,780,000	\$601,000	\$3,880,000		\$472,823	\$489,400	\$8,223,223



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## Authorization For Expenditure

Company Entity <b>Cimarex Energy Co</b>				Date Prepared <b>June 14, 2016</b>	
Region	Well Name	Prospect or Field Name	Property Number	Drilling AFE Number	
Anadarko	Baustert 1H-2920X				
Location		County	State	Type Well	
SHL: Section 29-11N-7W BHL: Section 20-11N-7W		Canadian	OK	Oil Gas	Expl Prod
				x	x
Estimate Type	Est. Start Date	Est. Comp Date	Formation	Ttl Measured Depth	
Original Estimate	x		WOODFORD	18,590'	
Revised Estimate				Ttl Vertical Depth	
Supplemental Estimate				11,110'	
Project Description Drill and complete a horizontal test. Drill to 1500', set surface casing. Drill to 10150', set intermediate casing. Drill to 10628' (KOP). Drill curve at 12 DLS build rate to +/-11110' TVD and a +/- 7210' long lateral in the Woodford formation. Run and cement production casing. Stage frac in 41 stages. Drill out plugs. Run production tubing. Flow to sales through new facility.					
Intangibles	Dry Hole Cost	After Casing Point	Completed Well Cost		
Drilling Costs	\$2,360,000		\$2,360,000		
Completion Costs		\$4,596,100	\$4,596,100		
Total Intangible Costs	\$2,360,000	\$4,596,100	\$6,956,100		
Tangibles					
Well Equipment	\$420,000	\$494,800	\$914,800		
Lease Equipment		\$352,323	\$352,323		
Total Tangible Well Cost	\$420,000	\$847,123	\$1,267,123		
Plug and Abandon Cost	\$0	\$0	\$0		
Total Well Cost	\$2,780,000	\$5,443,223	\$8,223,223		
Cimarex Energy Co. Approval					
Prepared by	Drilling and Completion Manager		Regional Manager		