

## **Authorization For Expenditure**

ompany Entity IMAREX ENERGY CO			Date Prepared N	March 6, 2016	
Region Well Name	Prospect or Field Name	Property Number	D	rilling AFE No.	
Anadarko HUGHES 1H-1918X	CANA NORTHWEST PROSPEC	T 350012-401.01		2215175	
ocation	County	County State			N. S.
9-15N-11W, Blaine County, OK	Blaine	OK OK	Gas :	Expl X Prod	X
itimate Type	Est.Start Date	Est. Comp Date	Formation	Ttl Measur	red Depth
riginal Estimate X				22,00	00,
evised Estimate upplemental Estimate			Mississippia	n Ttl Vertica	
oject Description  Ill and complete a horizontal test. Drill to 1500',  000' TVD and a +/- 9730' long lateral in the Mis  w to sales through new facility.  angibles  Illing Costs  mpletion Costs  tal Intangible Costs			stages. Drill out plu		on tubing.
angibles Vell Equipment	\$494,000	\$642,800		\$1,136,800	
ease Equipment otal Tangible Well Cost	\$494,000	\$333,600 \$976,400		\$333,600 \$1,470,400	
lug and Abandon Cost	\$0	\$0		\$0	
tal Well Cost	\$3,878,000	\$6,521,90	0	\$10,399,900	
omments on Well Costs  All tubulars, well or lease equipment is priced  Vell Control Insurance	by COPAS and CEPS guidelines using the Histo	oric Price Multiplier.	12		
All tubulars, well or lease equipment is priced ell Control Insurance elless otherwise indicated below, you, as a non- ng as Operator conducts operations hereunder un must provide a certificate of such insurance a unmencement of drilling operations. You agree	operating working interest owner, agree to b and to pay your prorated share of the premic acceptable to Operator, as to form and limits,	e covered by Operator's w ums therefore. If you elec at the time this AFE is reti	t to purchase your urned, if available,	own well control in but in no event lat	perator so insurance, ter than
Il Control Insurance ess otherwise indicated below, you, as a non- ag as Operator conducts operations hereunder must provide a certificate of such insurance a mencement of drilling operations. You agree cured by Operator.  Il elect to purchase my own well control Il control insurance procured by Operator, pro	operating working interest owner, agree to be and to pay your prorated share of the premis acceptable to Operator, as to form and limits, at that fallure to provide the certificate of insurance policy.  Devides, among other terms, for \$20,000,000 (1)	e covered by Operator's w ums therefore. If you elec at the time this AFE is ret rance, as provided herein, 00% W.I.) of Combined Si	t to purchase your urned, if available, will result in your ngle Limit coverag	own well control in but in no event lat being covered by in	perator so insurance, ter than insurance
All tubulars, well or lease equipment is priced delicontrol insurance niess otherwise indicated below, you, as a non-nig as Operator conducts operations hereunder to must provide a certificate of such insurance a summencement of drilling operations. You agree occured by Operator.  I elect to purchase my own well control insurance procured by Operator, provided the control insurance and the control	operating working interest owner, agree to be and to pay your prorated share of the premit acceptable to Operator, as to form and limits, a that fallure to provide the certificate of insurance policy.  Divides, among other terms, for \$20,000,000 (1 covering drilling (through completion) with a covering drilling (through completion) with a swith third party purchasers. Such contracts to market your share of gas with Cimarex, you will share with you the terms and conditions	e covered by Operator's w ums therefore. If you elec at the time this AFE is retr rance, as provided herein, 00% W.I.) of Combined Si \$1,000,000 (100% W.I.) d may include fees. In addit us will be subject to all of toursuant to which gas will set forth above.	t to purchase your urned, if available, will result in your nigle Limit coverage eductible.	own well control in but in no event lat being covered by in e for well control a be incurred for insontracts. Upon wr	perator so insurance, ter than insurance
Vell Control Insurance Inless otherwise indicated below, you, as a non- ong as Operator conducts operations hereunder our must provide a certificate of such insurance a ommencement of drilling operations. You agree rocured by Operator.  I elect to purchase my own well control vell control insurance procured by Operator, pro- elated redrilling and clean-up/pollution expenses insurance sells its gas under arm's-length contracts olumes delivered over time. Should you choose equest to Cimarex's Marketing Department, we in- hall be deemed an election to market your gas we  I elect to take my gas in kind.	operating working interest owner, agree to be and to pay your prorated share of the premis acceptable to Operator, as to form and limits, at that fallure to provide the certificate of insurance policy.  Ovides, among other terms, for \$20,000,000 (1 to covering drilling (through completion) with a covering drilling (through completion) with a swith third party purchasers. Such contracts to to market your share of gas with Cimarex, yowill share with you the terms and conditions with Cimarex under the terms and conditions of the covering drilling that the covering drilling the covering drilling the covering drilling that the covering drilling the covering drilling that the covering drilling that the covering drilling that	e covered by Operator's w Ims therefore. If you elec at the time this AFE is ret rance, as provided herein, 00% W.I.) of Combined Si \$1,000,000 (100% W.I.) d  may include fees. In addit u will be subject to all of t pursuant to which gas will set forth above.  ontract.	to purchase your urned, if available, will result in your ngle Limit coverage eductible.  ion, penalties may he terms of such cobe sold. Failure to be sold. Failure to actual costs may agrees to pay its page 15.	own well control in but in no event lat being covered by in the forwell control and the incurred for insontracts. Upon wromake an election of make an election exceed the estimater opportionate share or possible to the incurred for insontracts.	perator so insurance, ter than insurance and sufficient ritten below
All tubulars, well or lease equipment is priced  Well Control Insurance Inless otherwise indicated below, you, as a non- ing as Operator conducts operations hereunder out must provide a certificate of such insurance a commencement of drilling operations. You agree rocured by Operator.  I elect to purchase my own well control yell control insurance procured by Operator, pro elated redrilling and clean-up/pollution expense  interest sells its gas under arm's-length contracts olumes delivered over time. Should you choose equest to Cimarex's Marketing Department, we can be deemed an election to market your gas we  I elect to take my gas in kind.  I elect to market my gas with Cimarex  comments on AFE he above costs are estimates only and anticipate vithout affecting the authorization for expenditu	operating working interest owner, agree to be and to pay your prorated share of the premis acceptable to Operator, as to form and limits, at that fallure to provide the certificate of insurance policy.  Ovides, among other terms, for \$20,000,000 (1 to covering drilling (through completion) with a covering drilling (through completion) with a swith third party purchasers. Such contracts to to market your share of gas with Cimarex, yowill share with you the terms and conditions with Cimarex under the terms and conditions of the covering drilling that the covering drilling the covering drilling the covering drilling that the covering drilling the covering drilling that the covering drilling that the covering drilling that	e covered by Operator's w  In the time this AFE is retirance, as provided herein,  OO% W.I.) of Combined Si  \$1,000,000 (100% W.I.) d  In any include fees. In additional in the subject to all of the pursuant to which gas will set forth above.  In the working interest owner bry order or other applical	to purchase your urned, if available, will result in your ngle Limit coverage eductible.  ion, penalties may he terms of such cobe sold. Failure to be sold. Failure to actual costs may agrees to pay its pole agreement cov	own well control in but in no event lat being covered by in the forwell control and the incurred for insontracts. Upon wromake an election of make an election exceed the estimater opportionate share or possible to the incurred for insontracts.	perator so insurance, ter than insurance and sufficient ritten below
Vell Control Insurance Inless otherwise indicated below, you, as a non- ong as Operator conducts operations hereunder our must provide a certificate of such insurance a ommencement of drilling operations. You agree rocured by Operator.  I elect to purchase my own well control vell control insurance procured by Operator, pro- elated redrilling and clean-up/pollution expense farketing Election imarex sells its gas under arm's-length contracts olumes delivered over time. Should you choose equest to Cimarex's Marketing Department, we in- hall be deemed an election to market your gas w  I elect to take my gas in kind.  I elect to market my gas with Cimarex  ormnents on AFE here above costs are estimates only and anticipate without affecting the authorization for expenditu- egal, curative, regulatory and well costs under te	operating working interest owner, agree to be and to pay your prorated share of the premis acceptable to Operator, as to form and limits, a that fallure to provide the certificate of insurance policy.  Ovides, among other terms, for \$20,000,000 (1 to covering drilling (through completion) with a covering drilling (through completion) with a swith third party purchasers. Such contracts to market your share of gas with Cimarex, you will share with you the terms and conditions with Cimarex under the terms and conditions of with Cimarex under the terms and conditions of the complete of the terms and conditions of the terms and terms are terms.	e covered by Operator's w Ims therefore. If you elec at the time this AFE is retr ance, as provided herein, 00% W.I.) of Combined Si \$1,000,000 (100% W.I.) d  may include fees. In addit u will be subject to all of to pursuant to which gas will set forth above.  ontract.  sable change in plans. The ne working interest owner bry order or other applical	to purchase your urned, if available, will result in your ngle Limit coverage eductible.  ion, penalties may he terms of such cobe sold. Failure to be sold. Failure to actual costs may agrees to pay its pole agreement cov	own well control in but in no event lat being covered by in the forwell control and the incurred for insontracts. Upon wromake an election of make an election exceed the estimater opportionate share or possible to the incurred for insontracts.	perator so insurance, ter than insurance and sufficient ritten below
All tubulars, well or lease equipment is priced bell control insurance less otherwise indicated below, you, as a non- ng as Operator conducts operations hereunder u must provide a certificate of such insurance a must provide a certificate of such insurance at must provide a certificate operations. You agree occured by Operator.  I elect to purchase my own well control insurance procured by Operator, provided redrilling and clean-up/pollution expenses at each redrilling and clean-up/pollution expenses at each redrilling and clean-up/pollution expenses to climate's subject to market in permanent of the provided provided in the provided provided in the provided pr	operating working interest owner, agree to be and to pay your prorated share of the premis acceptable to Operator, as to form and limits, a that fallure to provide the certificate of insurance policy.  Ovides, among other terms, for \$20,000,000 (1 to covering drilling (through completion) with a covering drilling (through completion) with a swith third party purchasers. Such contracts to market your share of gas with Cimarex, you will share with you the terms and conditions with Cimarex under the terms and conditions of with Cimarex under the terms and conditions of the complete of the terms and conditions of the terms and terms are terms.	may include fees. In additu will be subject to all of the townstant to which gas will set forth above.  able change in plans. The working interest owner bry order or other applical proval	to purchase your urned, if available, will result in your ngle Limit coverage eductible.  ion, penalties may he terms of such cobe sold. Failure to be sold. Failure to actual costs may agrees to pay its pole agreement cov	own well control in but in no event lat being covered by in the forwell control and the incurred for insontracts. Upon wromake an election of make an election exceed the estimater opportionate share or possible to the incurred for insontracts.	perator so insurance, ter than insurance and sufficient ritten below

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## **Project Cost Estimate**

Lease	

Total Cost

THE STREET STREET					BCP - Drilling		ACP - Drilling	Completion ,	
					(Dry Hole Cost)				Stimulation
Intangibles Roads & Location Preparation / Restoration				Codes DIDC.100	\$200,000	Codes		Codes STIM.100	\$30,000
Damages				DIDC.105	\$28,000				
Mud / Fluids Disposal Charges			dan karakan	DIDC.255	\$120,000			STIM.255	\$120,000
	ACP Days @	\$0.00	Per Day	DIDC.115	\$859,000	DICC.120	\$104,000		
Misc Preparation Cost (mouse hole, rat hole, pads,	pile clusters, misc.)	1996 (1997) 2021 - Coole Barrier		DIDC.120 DIDC.125	\$30,000	DICC.125			
Bits Fuel \$2.00 Per Gallon	*******	Gallons Per Do	7/	DIDC.125	\$204,000 \$173,000	DICC.130	\$0	STIM.125	\$0
Water for Drilling Rig / Completion Fluids (Not Frac		Journal of Da		DIDC.140	\$20,000	DICC.135	\$1,000		\$0
Mud & Additives				DIDC.145	\$350,000				
Surface Rentals				DIDC.150	\$120,000	DICC.140	\$0	STIM.140	\$140,000
Downhole Rentals				DIDC.155	\$25,000			STIM.145	\$0
Formation Evaluation (DST, Coring including evaluation	46.00 Days @	\$1,000.00	Dar Davi	DIDC.160	\$0			STIM.150	\$0
Mud Logging Open Hole Logging	46.00 Days @	31,000.00	Per Day	DIDC.170	\$46,000				
Cementing & Float Equipment				DIDC.185	\$64,000	DICC.155	\$115,000		
Tubular Inspections				DIDC.190	\$17,000		\$10,000	STIM.160	\$0
Casing Crews				DIDC.195	\$28,000	DICC.165	\$25,000	STIM.165	\$0
Extra Labor, Welding, Etc.		455,22		DIDC.200	\$18,000	DICC.170	\$5,000	STIM.170	\$0
Land Transporation (Trucking for tangibles)				DIDC.205	\$22,000	DICC.175	\$9,000	STIM.175	\$5,000
Supervision		\$3,800.00	Per Day	DIDC.210	\$201,000	DICC.180	\$15,000	STIM.180	\$67,000
Trailer House / Camp / Catering				DIDC.280	\$45,000	DICC.255	\$5,000	STIM.280	\$13,000
Other Misc Expenses Overhead				DIDC.220	\$2,000	DICC.190	\$0 \$5,000	STIM.190	\$25,000
Remedial Cementing				DIDC.225	\$11,000	111111111111111111111111111111111111111	33,000	STIM.215	\$0
MOB/DEMOB				DIDC.240	\$195,000				
Directional Drilling Services				DIDC.245	\$300,000				
Crane for Construction									
Solids Control				DIDC.260	\$43,000				
Well Control Equip (Snubbing Svcs.)				DIDC.265	\$60,000	_	\$10,000	STIM.240	\$15,000
Fishing & Sidetrack Operations				DIDC.270	\$0	DICC.245	\$0	STIM.245	\$0 \$0
Completion Rig Coil Tubing								STIM.115 STIM.260	\$350,000
Completion Logging, Perforating, WL Units, WL Sui	rvevs							STIM.200	\$213,000
Composite Plugs			Sec. 149					STIM.390	\$113,000
Stimulation Pumping Charges, Chemicals, Additive	s, Sand							STIM.210	\$2,881,000
Stimulation Water / Water Transfer / Water Storag	ge							STIM.395	\$299,000
Cimarex Owned Frac / Rental Equipment								STIM.305	\$100,000
Legal / Regulatory / Curative				DIDC.300	\$20,000				
	Per Foot			DIDC 195	\$22,000				
Well Control Insurance \$1.00	Per Foot			DIDC.285	\$22,000 \$161,000	DICC.220	\$13,000	STIM.220	\$219,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin		Status La		DIDC.285 DIDC.435		DICC.220	\$13,000	STIM.220	\$219,000
Well Control Insurance \$1.00				-		DICC.220	\$13,000	STIM.220	\$219,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines				-		DICC.220	\$13,000 \$317,000	STIM.220	\$219,000 \$4,590,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost				-	\$161,000	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment		Feet	\$/Foot	-	\$161,000	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost	ng Intangibles	Feet 0.00	\$/Foot \$0.00	-	\$161,000	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe	size 0 0	0.00	\$0.00 \$0.00	DWE8.150 DWEB.130	\$161,000 \$3,384,000 \$0 \$0	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Cosing Drive Pipe Conductor Pipe Water String	size 0 0 0	0.00 0.00 0.00	\$0.00 \$0.00 \$0.00	DWEB.150 DWEB.130 DWEB.135	\$161,000 \$3,384,000 \$0 \$0	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing	Size   0   0   0   13.375	0.00 0.00 0.00 1500.00	\$0.00 \$0.00 \$0.00 \$43.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140	\$161,000 \$3,384,000 \$0 \$0 \$65,000	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1	Size   0   0   0   13.375   9.625	0.00 0.00 0.00 1500.00 10100.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00	DWE8.150 DWE8.130 DWE8.135 DWE8.140 DWE8.145	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000	DICC.220		STIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2	Size   0   0   0   13.375	0.00 0.00 0.00 1500.00 10100.00 0.00	\$0.00 \$0.00 \$0.00 \$43.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.155	\$161,000 \$3,384,000 \$0 \$0 \$65,000			\$TIM.220	
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1	Size   0   0   0   0   13.375   9.625   0	0.00 0.00 0.00 1500.00 10100.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00	DWE8.150 DWE8.130 DWE8.130 DWE8.145 DWE8.145 DWE8.145	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000				
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner	Size   0   0   0   0   13.375   9.625   0   0   0   0   0	0.00 0.00 0.00 1500.00 10100.00 0.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00	DWE8.150 DWE8.130 DWE8.130 DWE8.145 DWE8.145 DWE8.145	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000		\$317,000 \$484,000		\$4,590,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Eangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing	Size   0   0   0   13.375   9.625   0   0   5.5	0.00 0.00 1500.00 10100.00 0.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00	DWEB.150 DWEB.135 DWEB.140 DWEB.145 DWEB.145 DWEB.160	\$161,000 \$3,384,000 \$0 \$0 \$65,00 \$394,000 \$0	DWEA.100	\$317,000 \$484,000 \$0	STIMT.101 STIMT.105	\$4,590,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes	Size   0   0   0   13.975   9.625   0   0   5.5   0	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105	\$4,590,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer	Size   0   0   0   13.975   9.625   0   0   5.5   0	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.135 DWEB.140 DWEB.145 DWEB.145 DWEB.160	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100	\$317,000 \$484,000 \$0	STIMT.101 STIMT.120	\$4,590,000 \$4,590,000 \$0 \$0 \$40,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Casing or Liner Production Tie-Back Tubling Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples	Size   0   0   0   13.975   9.625   0   0   5.5   0	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400	\$4,590,000 \$0 \$0 \$40,000 \$5,000
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Fangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Te-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine	Size   0   0   0   0   13.375   9.625   0   0   5.5   0   2.375	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Downhole Lift Equipment (BHP, Rods, Anchors, EST Tangibles Losse Equipment	Size   0   0   0   0   13.375   9.625   0   0   5.5   0   2.375	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Casing or Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Downhole Lift Equipment (BHP, Rods, Anchors, ESI	Size   0   0   0   0   13.375   9.625   0   0   5.5   0   2.375	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Casing or Liner Production Tie-Back Tubling Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, Anchors, ESI Tangible - Lease Equipment N/C Lease Equipment	Size   0   0   0   0   13.375   9.625   0   0   5.5   0   2.375     0   0   0   0   0   0   0   0   0	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Cosing Drive Pipe Conductor Pipe Water String Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubling Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, Anchors, ESF Tangible - Lease Equipment N/C Lease Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gas Treating E	Size   O   O   O   O   O   O   O   O   O	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Cosing Drive Pipe Conductor Pipe Water String Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, Anchors, ESF Tangible - Lease Equipment N/C Lease Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gas Treating E Secondary Containments Overlead Power Institution (electric line to facilities Facility Electrical & Automation SWD Connection	Size   0   0   0   13.375   9.625   0   0   0   5.5   0   0   2.375     2.375     2.375     3.	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Transible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, Anchors, ESF Tangible - Lease Equipment N/C Lease Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gos Treating E Secondary Containments Overhead Power Distribution (electric line to facilit Facility Electrical & Automation SWD Connection Flow Lines (Line Pipe from wellhead to central facil	Size   0   0   0   13.375   9.625   0   0   0   5.5   0   0   2.375     2.375     2.375     3.	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumphole Lift Equipment (BHP, Rods, Anchors, ESI Tangible Labose Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gas Treating E Secondary Containments Overhead Power Distribution (electric line to facilit Facility Connection Flow Lines (Line Pipe from wellhead to central facil Pipeline to Sales	Size   0   0   0   13.375   9.625   0   0   0   5.5   0   0   2.375     2.375     2.375     3.	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.120	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillie Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Cosing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, Anchors, ESt Tangibles Lease Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gas Treating E Secondary Containments Overhead Power Distribution (electric line to facilit Facility Electrical & Automation SWD Connection Flow Lines (Line Pipe from wellhead to central facil Pipeline to Sales Meters and Metering Equipment	Size   0   0   0   13.375   9.625   0   0   0   5.5   0   0   2.375     2.375     2.375     3.	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.125 DWEA.125	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillin Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Casing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumphole Lift Equipment (BHP, Rods, Anchors, ESI Tangible Labose Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gas Treating E Secondary Containments Overhead Power Distribution (electric line to facilit Facility Connection Flow Lines (Line Pipe from wellhead to central facil Pipeline to Sales	Size	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	DWEA.100 DWEA.125 DWEA.125	\$317,000 \$484,000 \$0 \$43,000	STIMT.101 STIMT.105 STIMT.120 STIMT.400 STIMT.405	\$4,590,000 \$0 \$40,000 \$5,000 \$0
Well Control Insurance \$1.00 Contingency 5.0 % of Drillie Construction For Flow Lines Construction For Sales P/L Total Intangible Cost  Tangible - Well Equipment Cosing Drive Pipe Conductor Pipe Water String Surface Casing Intermediate Casing 1 Intermediate Casing 2 Drilling Liner Production Tie-Back Tubing Wellhead, Tree, Chokes Liner Hanger, Isolation Packer Packer, Nipples Pumping Unit, Engine Downhole Lift Equipment (BHP, Rods, Anchors, ESt Tangibles Lease Equipment Tanks, Tanks Steps, Stairs Battery (Heater Treater, Separator, Gas Treating E Secondary Containments Overhead Power Distribution (electric line to facilit Facility Electrical & Automation SWD Connection Flow Lines (Line Pipe from wellhead to central facil Pipeline to Sales Meters and Metering Equipment	Size	0.00 0.00 0.00 1500.00 10100.00 0.00 22000.00	\$0.00 \$0.00 \$0.00 \$43.00 \$39.00 \$0.00 \$0.00 \$22.00 \$0.00	DWEB.150 DWEB.130 DWEB.135 DWEB.140 DWEB.145 DWEB.140 DWEB.150	\$161,000 \$3,384,000 \$0 \$0 \$65,000 \$394,000 \$0 \$0 \$394,000	DWEA.100 DWEA.125 DWEA.125	\$317,000 \$484,000 \$0 \$43,000 \$0 \$527,000	STIMT.101 STIMT.105 STIMT.400 STIMT.405 STIMT.410	\$4,590,000 \$0 \$0 \$40,000 \$5,000 \$0

\$4,635,000

\$844,000

\$3,878,000



## Lease Name:

Total Cost

		Hara S	Production		Post	Total Well
			, rocaction			Total Well
			Equipment /		Completion	Cost
Intangibles		Codes	Construction	Codes		
Roads & Location Preparation / Restoration		CON.100	\$2,500	PCOM.100	\$1,000	\$233,50
Damages		CON.105	\$900			\$28,90
Mud / Fluids Disposal Charges				PCOM.255	\$144,000	\$384,00
Day Rate ####### DH Days 48.00 ACP Days @	\$0.00 Per Day			WIIIIIII		\$963,00
Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)						\$30,00
Bits				PCOM.125	\$0	\$204,00
Fuel \$2.00 Per Gallon ###### Gallons	Per Day			PCOM.130	\$0	\$173,00
Water for Drilling Rig / Completion Fluids (Not Frac Water)				PCOM.135	\$1,000	\$22,00
Mud & Additives						\$350,00
Surface Rentals		CON.140	\$3,000	PCOM.140	\$280,000	\$543,00
Downhale Rentals				PCOM.145	\$0	\$25,00
Formation Evaluation (DST, Coring including evaluation, G&G Services)						
	00.00 Per Day					\$46,00
Open Hole Logging						\$
Cementing & Float Equipment	5. a. j. a. j. a. j. a. j. 1111114					\$179,00
Tubular Inspections				PCOM.160	\$3,700	\$30,70
Casing Crews						\$53,00
Extra Labor, Welding, Etc.		CON.170	\$66,000	PCOM.170	\$0	\$89,00
Land Transporation (Trucking for tangibles)		CON.175	\$8,000	PCOM.175	\$6,800	\$50,80
	00.00 Per Day	CON.180	\$8,500		\$8,500	\$300,00
Trailer House / Camp / Catering	00.00   r Er Day	CON.180	30,300	PCOM.180	\$6,500	\$63,00
Other Misc Expenses		CON.190	\$3,000	PCOM.190	03	
Overhead		CON.190	\$3,000	PCOM.190	\$0	\$30,00
Remedial Cementing				PCOM.215	\$0	\$16,00
MOB/DEMOB				PCOM.215	\$0	\$
Directional Drilling Services						\$195,00
Crane for Construction		CON.230	\$4,000			\$300,00
Solids Control		CON.230	\$4,000			\$4,00
Well Control Equip (Snubbing Svcs.)	100000000000000000000000000000000000000					\$43,00
Fishing & Sidetrack Operations				PCOM.240	\$22,000	\$107,00
Completion Rig				PCOM.245	\$0	\$
				PCOM.115	\$14,000	\$14,00
Coil Tubing				PCOM.250	\$0	\$350,00
Completion Logging, Perforating, WL Units, WL Surveys				PCOM.200	\$0	\$213,00
Composite Plugs				PCOM.390	\$0	\$113,00
Stimulation Pumping Charges, Chemicals, Additives, Sand				PCOM.210	\$0	\$2,881,00
Stimulation Water / Water Transfer / Water Storage						\$299,00
Cimarex Owned Frac / Rental Equipment					\$100,00	
Legal / Regulatory / Curative	CON.300	\$0			\$20,00	
Well Control Insurance \$1.00   Per Foot					\$22,00	
Contingency 5.0  % of Drilling Intangibles	CON.220		PCOM.220	\$48,100	\$451,10	
Construction For Flow Lines		CON.310	\$3,500			\$3,50
Construction For Sales P/L		CON.265	\$0			\$
Total Intangible Cost		Applications and	\$109,400		\$529,100	\$8,929,50
Tangible - Well Equipment	Mark and a second second					
angioie wen equipment						

Casing	Size	Feet	\$/Foot	THIIII III			THE PROPERTY OF THE PARTY OF TH	
Drive Pipe	0	0.00	\$0.00					\$0
Conductor Pipe	0	0.00	\$0.00					\$0
Water String	0	0.00	\$0.00					\$0
Surface Casing	13.375	1500.00	\$43.00					\$65,000
Intermediate Casing 1	9.625	10100.00	\$39.00					\$394,000
Intermediate Casing 2	0	0.00	\$0.00					\$0
Drilling Liner	0	0.00	\$0.00					\$0
Production Casing or Liner	5.5	22000.00	\$22.00					\$484,000
Production Tie-Back	0	0.00	\$0.00					\$0
Tubing	2.375	11620.00	\$5.10			PCOMT.105	\$69,000	\$69,000
Wellhead, Tree, Chokes								\$118,000
Liner Hanger, Isolation Packer								\$0
Packer, Nipples	10.011					PCOMT.400	\$1,800	\$6,800
Pumping Unit, Engine						PCOMT.405	\$0	\$0
Downhole Lift Equipment (BHP, Rods, Anchors, ESI	P, GVLs, PC Pump)					PCOMT.410	\$0	\$0
Tangible - Lease Equipment								
N/C Leose Equipment				CONT,400	\$65,000			\$65,000
Tanks, Tanks Steps, Stairs			The second second	CONT.405	\$58,700			\$58,700
Battery (Heater Treater, Separator, Gas Treating Equipment)					\$115,700			\$115,700
Secondary Containments					\$8,000			\$8,000
Overhead Power Distribution (electric line to facility)					\$3,000			\$3,000
Facility Electrical & Automation					\$31,200			\$31,200
SWD Connection					\$0			\$0
Flow Lines (Line Pipe from wellhead to central facility)					\$23,200			\$23,200
Pipeline to Sales					\$0			\$0
Meters and Metering Equipment					\$28,800			\$28,800
Total Tangibles					\$333,600		\$70,800	\$1,470,400

\$443,000

\$599,900 \$10,399,900