

Authorization For Expenditure

10	SE CRUCHOZ
	CSR CSR
	3-24-14
arh.	

MAREX ENERGY CO				Date Pre		/21/2014	
Region	Well Name	Prospect or Field Name	Property Number		Orith	ng AFE No.	
Cana	RENBARGER 1-22H	CANA CORE PROSPECT (CANA)	350016-389.01	264054			
cation		County	State	Oil	Ty	pe Well Expl	T
IL-210' FSL & 400' FI	EL, BHL- 50' FNL & 330' FEL	Canadian	OK	Gas	X	Prod	
tlmate Type		Est.Start Date E	St. Comp Date	For	mation	-	sured D
riginal Estimate evised Estimate pplemental Estimat	X te	04/21/2014	06/17/2014	Woodford		16,120' Til Vertical De 11,390'	
Il curve, at 12 deg/:	100' build rate, to 11394' TVD and	are included. Drill to 1500', set surface ca i then a 4452' long lateral, in the Middle W n 2-3/8 carbon steel tubing and place on p	oodford target layer.				
tangibles		Doy Hole Cort	After Caring	Point Completed Well Cos			
rilling Costs		Dry Hole Cost \$2,690,000	After Casing	William .	2	\$2,690,0	-
impletion Costs		\$2,500,000	\$3,103,00			\$3,103,0	
tal Intangible Costs		\$2,690,000	\$3,103,00	Ů.		\$5,793,0	00
ngibles		\$502,000	6635.000		T	¢1 437 0	00
ell Equipment ase Equipment		\$502,000	\$635,000 \$143,000	,		\$1,137,0 \$143,00	7
tal Tangible Well Co	ost	\$502,000	\$778,000	THE PERSON NAMED IN		\$1,280,0	
g and Abandon Co	st	\$0	\$0			\$0	
tal Well Cost		\$3,192,000	\$3,881,00	0		\$7,073,0	00
mmens of Wall Ge All tubulars, well or		PAS and CEPS guidelines using the Historic	Price Multiplier.				
All tubulars, well or	e lease equipment is priced by CO	PAS and CEPS guidelines using the Historic ting working interest owner, agree to be coop pay your prorated share of the premiums able to Operator, as to form and limits, at	overed by Operator's w	t to purcha	se your ow	n well contr	ol insur
All tubulars, well or call tubulars, well ore	e cated below, you, as a non-operat lucts operations hereunder and to rificate of such insurance accept illing operations. You agree that it	ting working interest owner, agree to be co o pay your prorated share of the premiums	overed by Operator's w s therefore. If you elec the time this AFE is ret	t to purcha urned, if av	se your ow ailable, but	n well contr in no event	ol insuration
All tubulars, well or all tubulars, well or all tubulars, well or all tubulars and tubulars as operator cond u must provide a ce mmencement of dri ocured by Operator.	acated below, you, as a non-operatucts operations hereunder and to rificate of such insurance accept illing operations. You agree that it.	ting working interest owner, agree to be co o pay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran	overed by Operator's w s therefore. If you elec the time this AFE is ret	t to purcha urned, if av	se your ow ailable, but	n well contr in no event	ol insuration
All tubulars, well or all februarish strategy and soperator cond u must provide a cemmencement of driocured by Operator. I elect to put ell control insurance	r lease equipment is priced by CO acted below, you, as a non-operat lucts operations hereunder and to rtificate of such insurance accept illing operations. You agree that is crchase my own well control insue a procured by Operator, provides,	ting working interest owner, agree to be co o pay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran	overed by Operator's was therefore. If you electhe time this AFE is retice, as provided herein, which was the control of Combined Si	t to purcha urned, if av will result	se your ow railable, but in your bein	n well contr t in no event ng covered l	rol insura t later th by insura
All tubulars, well or all tubulars, well control insurance lated redrilling and or all tubulars, well or all tubulars, well tubulars, well or all tubulars, well or all tubulars, well or all tubulars, well or all tubulars, well or all tubulars, well all t	r lease equipment is priced by CO acted below, you, as a non-operat lucts operations hereunder and to rtificate of such insurance accept illing operations. You agree that is crchase my own well control insue a procured by Operator, provides,	ting working interest owner, agree to be co o pay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy.	overed by Operator's was therefore. If you electhe time this AFE is retice, as provided herein, which was the control of Combined Si	t to purcha urned, if av will result	se your ow railable, but in your bein	n well contr t in no event ng covered l	rol insura t later th by insura
allieontroblassocials of the wise indicated as Operator cond u must provide a commencement of driocured by Operator. I elect to puell control insurance lated redrilling and control insurance lated redrilling and control insurance conditions are sells its gas un furnes delivered over quest to Cimarex's N	r lease equipment is priced by CO attended below, you, as a non-operative of such insurance accept illing operations. You agree that it is procured by Operator, provides, clean-up/pollution expense cover ander arm's-length contracts with a critime. Should you choose to may arketing Department, we will should popartment, we will should popartment.	ting working interest owner, agree to be co o pay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy.	overed by Operator's was therefore. If you electhe time this AFE is retice, as provided herein, www.l.) of Combined SI,000,000 (100% W.I.) of the provided provided fees. In additivil to subject to all of subject to which gas will suant to which gas will	t to purcha urned, if av will result ingle Limit of eductible.	se your ow vailable, but in your beli coverage fo dies may be f such cont	r well control r well control r well control incurred for racts. Upon	ol insure t later th by insure ol and of and r insuffic a written
All tubulars, well or all feathers well or all feathers white indicing as Operator cond u must provide a commencement of drift occured by Operator. I elect to puell control insurance lated redrilling and of the control insurance lated redrilling and control insurance with the control insurance lated redrilling and control insurance with the c	r lease equipment is priced by CO attended below, you, as a non-operative of such insurance accept illing operations. You agree that it is procured by Operator, provides, clean-up/pollution expense cover ander arm's-length contracts with a critime. Should you choose to may arketing Department, we will should popartment, we will should popartment.	ting working interest owner, agree to be co o pay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy. among other terms, for \$20,000,000 (100 ring drilling (through completion) with a \$1 third party purchasers. Such contracts man raket your share of gas with Cimarex, you ware with you the terms and conditions pur	overed by Operator's was therefore. If you electhe time this AFE is retice, as provided herein, www.l.) of Combined SI,000,000 (100% W.I.) of the provided provided fees. In additivil to subject to all of subject to which gas will suant to which gas will	t to purcha urned, if av will result ingle Limit of eductible.	se your ow vailable, but in your beli coverage fo dies may be f such cont	r well control r well control r well control incurred for racts. Upon	ol insure t later th by insure ol and of and r insuffic a written
all tubulars, well or all tubulars of the associated red tubulars and tubulars all tub	r lease equipment is priced by CO atted below, you, as a non-operat fucts operations hereunder and to rtificate of such insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is full operations with the control insurance accept full operations with the control insurance accept full operations. You agree that is full operations with the control insurance accept full operations. You agree that is full operations with the control insurance accept full operations. You agree that is full operations with the control insurance accept full operations. You agree that is full opera	ting working interest owner, agree to be co o pay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy. among other terms, for \$20,000,000 (100 ring drilling (through completion) with a \$1 third party purchasers. Such contracts man raket your share of gas with Cimarex, you ware with you the terms and conditions pur	overed by Operator's with therefore. If you elect the time this AFE is retice, as provided herein, www.l.) of Combined Si,000,000 (100% W.I.) of the combined Si,000,000 (100%	t to purcha urned, if av will result ingle Limit of eductible.	se your ow vailable, but in your beli coverage fo dies may be f such cont	r well control r well control r well control incurred for racts. Upon	ol insure t later th by insure ol and of and r insuffic a written
All tubulars, well or all feathers well or all feathers well and the season of the sea	r lease equipment is priced by CO atted below, you, as a non-operat fucts operations hereunder and to rtificate of such insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is furchase my own well control insurance accept fulling operations. You agree that is full operations with the control insurance accept full operations with the control insurance accept full operations. You agree that is full operations with the control insurance accept full operations. You agree that is full operations with the control insurance accept full operations. You agree that is full operations with the control insurance accept full operations. You agree that is full opera	ting working interest owner, agree to be coppay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy. among other terms, for \$20,000,000 (100 ing drilling (through completion) with a \$1 third party purchasers. Such contracts market your share of gas with Cimarex, you ware with you the terms and conditions purmarex under the terms and conditions set	overed by Operator's with therefore. If you elect the time this AFE is retice, as provided herein, www.l.) of Combined Si,000,000 (100% W.I.) of the combined Si,000,000 (100%	t to purcha urned, if av will result ingle Limit of eductible.	se your ow vailable, but in your beli coverage fo dies may be f such cont	r well control r well control r well control incurred for racts. Upon	ol insure t later th by insure ol and of and r insuffic a written
All tubulars, well or all features objection and control insurance at the control insurance contr	r lease equipment is priced by CO atted below, you, as a non-operat fucts operations hereunder and to rtificate of such insurance accept fulling operations. You agree that is furchase my own well control insu a procured by Operator, provides, clean-up/pollution expense cover fullent arm's-length contracts with fer time. Should you choose to ma full what is the control of the control full should you choose to ma full sheet in the control of the control full sheet arm's-length contracts with it for time. Should you choose to ma full sheet arm's-length contracts with it for time. Should you choose to ma full sheet arm's-length contracts with it for time arm is should you choose to ma full sheet arm is sheet arm i	ting working interest owner, agree to be coppay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy. among other terms, for \$20,000,000 (100 ing drilling (through completion) with a \$1 third party purchasers. Such contracts market your share of gas with Cimarex, you ware with you the terms and conditions purmarex under the terms and conditions set	overed by Operator's with therefore. If you elect the time this AFE is retice, as provided herein, www.l.) of Combined Si ,000,000 (100% W.I.) of yinclude fees. In additivill be subject to all of its suant to which gas will forth above.	t to purcha urned, if av will result ingle Limit of eductible. ion, penalt the terms of be sold. Fi	se your ow ailable, but in your beli coverage fo ies may be f such cont ailure to ma ts may exce bay its prop	n well contributed in the contributed for acts. Upon ake an elect	of insure later the by insure of and of and r insuffic written ion belo
All tubulars, well or all tubulars, well or all tubulars, well or all tubulars, well or all tubulars as operator cond u must provide a cemmencement of dri ocured by Operator. I elect to puell control insurant of dri ocured by Operator. I elect to puell control insurant of dri ocured by Operator. I elect to puell control insurant of dri ocured by Operator. I elect to marex's Nail be deemed an elect to tal in elect to mare in the puell of the control of the control of the puell of the control of the control of the puell of	r lease equipment is priced by CO acted below, you, as a non-operatucts operations hereunder and to ritificate of such insurance accept illing operations. You agree that is procured by Operator, provides, clean-up/pollution expense cover ander arm's-length contracts with the ritime. Should you choose to make time. The time time time time time. The time time time time time time. The time time time time time tim	ting working interest owner, agree to be coppay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insurant rance policy. among other terms, for \$20,000,000 (100 ing drilling (through completion) with a \$1 third party purchasers. Such contracts market your share of gas with Cimarex, you ware with you the terms and conditions purmarex under the terms and conditions set and to the terms and conditions of its conditions of the terms and conditions of its conditions gar and to the terms and conditions of its conditions gar and to the terms and conditions of its conditions gar and to the terms and conditions of its conditions gar and to the terms and conditions of its conditions gar and to the terms and conditions of its conditions gar and to the terms and conditions of its conditions gar and the total gar and the terms and conditions of its conditions gar and the terms and conditions of its conditions gar and the terms and conditions of its conditions gar and the terms and conditions of its conditions gar and the terms and conditions of its conditions gar and the terms and conditions gar and the terms and conditions of its conditions gar and the terms and conditions gar a	overed by Operator's was therefore. If you electhe time this AFE is retice, as provided herein, www.l.) of Combined Si ,000,000 (100% W.l.) of the combined Si ,000,00	t to purcha urned, if av will result ingle Limit of eductible. cion, penalt the terms of be sold. Fi	se your ow ailable, but in your beli coverage fo ies may be f such cont ailure to ma ts may exce bay its prop	n well contributed in the contributed for acts. Upon ake an elect	of insure later the by insure of and of and r insuffic written ion belo
all tubulars, well or all tubulars, well or all tubulars, well or all tubulars, well or all tubulars as Operator cond u must provide a cemmencement of driocured by Operator. I elect to puell control insurance lated redrilling and or all tubulars all t	r lease equipment is priced by CO acted below, you, as a non-operatucts operations hereunder and to ritificate of such insurance accept illing operations. You agree that is procured by Operator, provides, clean-up/pollution expense cover ander arm's-length contracts with the ritime. Should you choose to make time. The time time time time time. The time time time time time time. The time time time time time tim	ting working interest owner, agree to be coppay your prorated share of the premiums able to Operator, as to form and limits, at failure to provide the certificate of insuran rance policy. among other terms, for \$20,000,000 (100 ing drilling (through completion) with a \$1 third party purchasers. Such contracts market your share of gas with Cimarex, you ware with you the terms and conditions purmarex under the terms and conditions set and to the terms and conditions of its contracts of the terms and conditions of its contracts.	overed by Operator's with therefore. If you elect the time this AFE is retice, as provided herein, www.l.) of Combined Si ,000,000 (100% W.I.) of yinclude fees. In additivill be subject to all of its suant to which gas will forth above.	t to purcha urned, if av will result ingle Limit of eductible. cion, penalt the terms of be sold. Fi	se your ow ailable, but in your beli coverage fo ies may be f such cont ailure to ma ts may exce bay its prop	n well contributed in the contributed for acts. Upon ake an elect	t later to by insure of the control



Total Cost

angibles and & Location Preparation / Restoration anges ad / Fluids Disposal Charges y Rate 28.00 DH Days 3.00 ACP Days \$23,000.00 Per Day ac Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	DIDC.100 DIDC.105	Dry Hale Cost \$128,000	DICC.100	Point	Cost
mages ad / Fluids Disposal Charges y Rate 28.00 DH Days 3.00 ACP Days \$\$ \$\$ \$23,000.00 Per Day see Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)		\$128,000			\$151,000
nd / Fluids Disposal Charges y Rate 28.00 DH Days 3.00 ACP Days @ \$23,000.00 Per Day sc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	DIDC.105	224 200		\$23,000	\$21,000
y Rate 28.00 DH Days 3.00 ACP Days \$23,000.00 Per Day se Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	The same of the same of	\$21,000	DICC.105	\$142,000	\$267,000
sc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc.)	DIDC.255	\$125,000	DICC.235	\$69,000	\$713,000
	DIDC.115	\$644,000	DICC.120	369,000	\$23,000
	DIDC.120	\$23,000		\$1,000	\$186,000
	DIDC.125	\$185,000	DICC.125		\$230,000
\$3.50 Per Gallon ######## Gallons Per Day	DIDC.135	\$216,000	DICC.130	\$14,000	\$78,000
ster / Completion Fluids \$0.00 Per Day	DIDC.140	\$23,000	DICC.135	\$55,000	
d & Additives	DIDC.145	\$321,000			\$321,000
face Rentals \$1,300.00 Per Day	DIDC.150	\$36,000	DICC.140	\$156,000	\$192,000
wnhole Rentals	DIDC.155	\$77,000	DICC.145	\$40,000	\$117,000
mation Evaluation (DST, Coring including evaluation, G&G Services)	DIDC.160	\$0			\$1
ad Logging 21.00 Days @ \$700.00 Per Day	DIDC.170	\$15,000		4444444	\$15,00
en Hole Logging	DIDC.180	\$0			\$
menting & Float Equipment	DIDC.185	\$68,000	DICC.155	\$104,000	\$172,00
bular Inspections	DIDC.190	\$14,000	DICC.160	\$10,000	\$24,00
sing Crews	DIDC.195	\$33,000	DICC.165	\$47,000	\$80,00
tra Labor, Welding, Etc.	DIDC.200	\$16,000	DICC.170	\$20,000	\$36,00
nd Transporation (Trucking)	DIDC.205	\$17,000	DICC.175	\$17,000	\$34,00
pervision \$3,000.00 Per Day	DIDC.210	\$99,000	DICC.180	\$24,000	\$123,00
ailer House / Camp / Catering \$0.00 Per Day	DIDC.280	\$33,000	DICC.255	\$7,000	\$40,00
her Misc Expenses	DIDC.220	\$1,000	DICC.190	\$52,000	\$53,00
erhead \$0.00 Per Day	DIDC.225	\$8,000	DICC.195	\$15,000	\$23,00
medial Cementing	DIDC.231	\$0	DICC.215	\$0	\$
DB/DEMOB	DIDC.240	\$120,000			\$120,00
rectional Drilling Services 0.00 Days @ \$0.00 Per Day	DIDC.245	\$187,000			\$187,00
ck, Dispatcher, Crane	DIDC.250	\$0	DICC.230	\$0	\$
	DIDC.275	50	DICC.250	\$0	\$
arine & Air Transportation	DIDC.260	\$41,000			\$41,00
nus control	DIDC.265	\$57,000	DICC.240	\$21,000	\$78,00
ell Control Equip (Snubbing Svcs.)	DIDC.270	. \$0	DICC.245	\$0	\$
hing & Sidetrack Operations mpletion Ria 0.00 Days @ \$0.00 Per Day	7////////		DICC.115	\$35,000	\$35,00
implector mg	44HHH	X#######	DICC.260	\$400,000	\$400,00
a ruong	111111111111111111111111111111111111111	<i>>>>>>>></i>	DICC.200	\$260,000	\$260,00
mpletion Logging, Perforating, WL Units, WL Surveys			DICC.210	\$1,400,000	\$1,400,00
mulation	DIDG 200	\$28,000	DICC.280	\$2,000	\$30,00
gal / Regulatory / Curative	DIDC.300	\$26,000	111111111111111111111111111111111111111	777777777777777777777777777777777777777	\$26,00
ell Control Insurance \$1.59 Per Foot	DIDC.285	\$128,000	DICC.220	\$146,000	\$274,00
ntingency 0.1 % of Drilling Intangibles	DIDC.435	\$128,000	DWEA.110	\$0	\$
nstruction For Well Equipment		<i>XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</i>	DLEQ.110	\$43,000	\$43,00
nstruction For Lease Equipment	44444	X/////////////////////////////////////		\$45,000	\$45,00
instruction For Sales P/L	WHILL		DICC.265		\$5,793,00
tal Intangible Cost		\$2,690,000		\$3,103,000	33,733,00
ngible - Well Equipment Size Feet \$/Foot	VIIIIIII		VIIIIIII	MIMIMIN	
Surg		\$0			ummum ;
700 4000					
onductor Pipe 0 0.00 \$0.00		-	HHHH		
ater String 0 0.00 \$0.00					\$67,0
irface Casing 13.375 1500.00 \$44.77					\$397,0
termediate Casing 9.625 9559.00 \$41.51					
rilling Liner 0 0.00 \$0.00	THE PERSON NAMED IN COLUMN		22/11/11/11		
	DWEB.145	\$0			A300 0
roduction Casing or Liner 5.5 16120.00 \$24.76	17777777		DWEA.100	\$399,000	\$399,0
roduction Tie-Back 0 0.00 \$0.00		200000000000000000000000000000000000000	DWEA.100	\$0	
ibing 2.375 11240.00 \$5.51	VIIIIIII		DWEA.105	\$62,000	\$62,0
/C Well Equipment	111111111	XIIIIIIIII	DWEA.115	\$88,000	\$88,0
lellhead, Tree, Chokes	DWEB.115	\$38,000	DWEA.120	\$79,000	\$117,0
ner Hanger, Isolation Packer	DWEB.100	\$0	DWEA.125	\$0	
ncker, Nipples	111111111111111111111111111111111111111		DWEA.130	\$7,000	\$7,0
umping Unit, Engine			DLEQ.100	\$0	
ft Equipment (BHP, Rods, Anchors)			DLEQ.105	\$0	
angible - Lease Equipment	471976				
/C Lease Equipment	111111111111111111111111111111111111111	XIIIIIIIII	DLEQ.115	\$42,000	\$42,0
		XIIIIIIII	DLEQ,120	\$25,000	\$25,0
onks, Tanks Steps, Stairs attery (Heater Treater, Separator, Gas Treating Equipment)	11111111	X/////////	DLEQ.125	\$58,000	\$58,0
		XIIIIIIII	DLEQ.130	\$18,000	\$18,0
low Lines (Line Pipe from wellhead to central facility)	111111111111111111111111111111111111111		DWEA.135	\$0	
ffshore Production Structure for Facilities	19/19/19		DWEA.140		
ipeline to Sales	VIIIIIII	CEO2 CO	4	\$778,000	\$1,280,0
otal Tangibles		\$502,000		\$770,000	71,200,0

\$7,073,000

\$3,881,000

\$3,192,000