

Authorization For Expenditure



ompany Entity MAREX ENERGY CO					Date Prepa		er 21, 2014		
Region Well Name Cana GRELLNER 1-25H			Prospect or Field Name Property Number CANA CORE PROSPECT (CANA) 350016-866.01			Drilling AFE No. 264191			
		County		State		Tv	rpe Well		
cation IL-200' FSL & 2054' FWL, BHL- 50' FNL & 2054' FWL				ОК	Oil Gas	X	Expl X		
imate Type		Est.Start Date	Est	. Comp Date	Form	nation	Ttl Measu	red Dep	
ginal Estimate vised Estimate oplemental Estimate	X	November 21, 2014	Janu	uary 17, 2015	Woodford		16,120' Tti Vertical Depti 11,390'		
ingibles ling Costs pletion Costs al Intangible Costs gibles Il Equipment se Equipment		\$2,690,000 \$2,690,000 \$2,000		\$3,103,00 \$3,103,00 \$3,103,00 \$635,000 \$143,000	00		\$2,690,000 \$3,103,000 \$5,793,000 \$1,137,000 \$143,000		
		¢502.000		\$779 000	1		S1 280 000	1-3-20-1-120-1	
al Tangible Well Co		\$502,000 \$0		\$778,000 \$0)		\$1,280,000		
tal Tangible Well Co ug and Abandon Cos tal Well Cost	sts	\$502,000 \$0 \$3,192,000 COPAS and CEPS guidelines using the	ne Historic P	\$0 \$3,881,0 0		1	1.2		
and Abandon Cost tal Well Cost mments on Well Cos All tubulars, well or all Control Insurance alless otherwise indicing as Operator condi u must provide a cei mmencement of dri ocured by Operator. I elect to pu	lease equipment is priced by General services and the services of such insurance acceptations are the services of such insurance acceptations. You agree the creates my own well control in a procured by Operator, provides	\$3,192,000 \$3,192,000 COPAS and CEPS guidelines using the correction of the parating working interest owner, agrid to pay your prorated share of the correction of the correct	ee to be cov premiums t limits, at th of insurance	\$3,881,00 \$3,881,00 rice Multiplier. rered by Operator's v therefore. If you elet time this AFE is ret e, as provided herein W.I.) of Combined S	vell control i ct to purchas turned, if ava urned, if ava will result i	e your ow ailable, bu n your bei	\$7,073,000 \$7,073,000 procured by O vn well control it in no event la ing covered by	perator insurar insurar	
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eli Control Insurance as All tubulars, well or eli Control Insurance as Control Insurance as Operator cond as the provide a cere mencement of dri occured by Operator. I elect to pu fell control Insurance lated redrilling and of arketing Election marex sells its gas un solumes delivered over quest to Cimarex's M all be deemed an ele I elect to tal I elect to tal I elect to tal	lease equipment is priced by of lease equipment is priced by operations hereunder and rifficate of such insurance accelling operations. You agree the procured by Operator, provide lean-up/pollution expense conder arm's-length contracts with lease equipment in the procured by Operator, provide lean-up/pollution expense conder arm's-length contracts with lease equipment in the lease eq	\$3,192,000 \$3,192,000 COPAS and CEPS guidelines using the strating working interest owner, agric to pay your prorated share of the eptable to Operator, as to form and at failure to provide the certificate usurance policy. Les, among other terms, for \$20,000 wering drilling (through completion the third party purchasers. Such commarket your share of gas with Cime share with you the terms and conditional contents and conditional contents and conditional contents.	pee to be cov premiums t limits, at the of insurance 0,000 (100%)) with a \$1,0 htracts may arex, you wi ditions pursu ditions set for of its contr	\$0 \$3,881,00 rice Multiplier. rered by Operator's vitherefore. If you elected the time this AFE is retally a provided herein with the subject to all of uant to which gas will porth above.	vell control it to purchas turned, if ava, will result i deductible.	es your ownilable, but n your being your ownilable, but n your being your being your being your being your being your being you had been with a second your being you	\$7,073,000 \$7,073,000 procured by O yn well control to in no event la ing covered by or well control e incurred for in tracts. Upon w hake an election	perator insurar insurar and	

Joint Interest Approval

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Project Cost Estimate

Roads & Location Preparation / Restoration Damages Mud / Fluids Disposal Charges Day Rate 28.00 DH Days 3.00 ACP Days @ Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc Bits	\$			DIDC.100	\$128,000 \$21,000	DICC.100 DICC.105	\$23,000 \$0	\$151,000 \$21,000
Mud / Fluids Disposal Charges Day Rate 28.00 DH Days 3.00 ACP Days @ Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc Bits	\$							\$21,000
Day Rate 28.00 DH Days 3.00 ACP Days @ Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc Bits	\$			DIDCORE				
Misc Preparation Cost (mouse hole, rat hole, pads, pile clusters, misc Bits	\$			DIDC.255	\$125,000	DICC.235	\$142,000	\$267,000
Bits		23,000.00	Per Day	DIDC.115	\$644,000	DICC.120	\$69,000	\$713,000
	c.)			DIDC.120	\$23,000		A	\$23,000
53.50 0 6-11 1444	инии с	D D.		DIDC.125	\$185,000	DICC.125	\$1,000	\$186,000
	#### Go	allons Per Do		DIDC.135	\$216,000	DICC.130	\$14,000	\$230,000
Water / Completion Fluids Mud & Additives		\$0.00	Per Day	DIDC.140	\$23,000	DICC.135	\$55,000	\$78,000
Surface Rentals		\$1,300.00	Par Day	DIDC.145 DIDC.150	\$321,000 \$36,000	DICC.140	\$156,000	\$321,000
Downhole Rentals		\$1,500.00	rei Duy	DIDC.150	\$77,000	DICC.145	\$40,000	\$192,000
Formation Evaluation (DST, Coring including evaluation, G&G Service	ecl			DIDC.160	\$77,000	DICC.145	\$40,000	\$117,000
Mud Logging 21.00 Day.	-	\$700.00	Par Day	DIDC.170	\$15,000			\$15,000
Open Hole Logging	36	\$700.00	rerbuy	DIDC.180	\$0			\$13,000
Cementing & Float Equipment				DIDC.185	\$68,000	DICC.155	\$104,000	\$172,000
Tubular Inspections				DIDC.190	\$14,000	DICC.160	\$10,000	\$24,000
Casing Crews			1,125.11	DIDC.195	\$33,000	DICC.165	\$47,000	\$80,000
Extra Labor, Welding, Etc.				DIDC.200	\$16,000	DICC.170	\$20,000	\$36,000
Land Transporation (Trucking)				DIDC.205	\$17,000	DICC.175	\$17,000	\$34,000
Supervision		\$3,000.00	Per Day	DIDC.210	\$99,000	DICC.180	\$24,000	\$123,000
Trailer House / Camp / Catering			Per Day	DIDC.280	\$33,000	DICC.255	\$7,000	\$40,000
Other Misc Expenses		70.00	J. Lay	DIDC.220	\$1,000	DICC.190	\$52,000	\$53,000
Overhead Overhead		\$0.00 l	Per Day	DIDC.225	\$8,000	DICC.195	\$15,000	\$23,000
Remedial Cementing		70.00	rerbuy	DIDC.231	\$0,000	DICC.215	\$15,000	\$25,000
MOB/DEMOB				DIDC.231	\$120,000	DICC.213	30	\$120,000
Directional Drilling Services 0.00 Days	IS @	\$0.00	Per Day	DIDC.245	\$187,000	eroraterori		\$187,000
Dock, Dispatcher, Crane	3.6	70.00	rerbay	DIDC.250	\$0	DICC.230	\$0	\$107,000
Marine & Air Transportation				DIDC.275	\$0	DICC.250	\$0	\$0
Solids Control		\$0.00	Per Day	DIDC.260	\$41,000	DICC.230	30	\$41,000
Well Control Equip (Snubbing Svcs.)		70.00	rerbuy	DIDC.265	\$57,000	DICC.240	\$21,000	\$78,000
Fishing & Sidetrack Operations				DIDC.270	\$0	DICC.245	\$0	\$70,000
Completion Rig 0.00 Days	IS @	\$0.00	Per Day	DIDC.270	20	DICC.115	\$35,000	\$35,000
Coil Tubing 0.00 Days			Per Day			DICC.260	\$400,000	\$400,000
Completion Logging, Perforating, WL Units, WL Surveys	36	\$0.00	Crouy		A 52 50 50 50 50 50 50 50 50 50 50 50 50 50	DICC.200	\$260,000	\$260,000
Stimulation				deresta a mere y	are este stere sterile	DICC.210	\$1,400,000	\$1,400,000
Legal / Regulatory / Curative		1.0		DIDC.300	\$28,000	DICC.280	\$2,000	\$30,000
Well Control Insurance \$1.59 Per Foot				DIDC.285	\$26,000	Dicc.200	\$2,000	\$26,000
Contingency 0.1 % of Drilling Intangibles				DIDC.435	\$128,000	DICC.220	\$146,000	\$274,000
Construction For Well Equipment				DIDC.433	\$120,000	DWEA.110	\$0	\$0
Construction For Lease Equipment					•	DLEQ.110	\$43,000	\$43,000
Construction For Sales P/L					6066	DICC.265	\$0	\$0
Total Intangible Cost					\$2,690,000	Dicc.203	\$3,103,000	\$5,793,000
Total mangine cost					7-//		10//	
Tangible - Well Equipment								
Casing	ze	Feet	\$/Foot					
Drive Pipe 0		0.00	\$0.00	DWEB.150	\$0			\$0
Conductor Pipe 0		0.00	\$0.00	DWEB.130	\$0			\$0
Water String 0		0.00	\$0.00	DWEB.135	\$0	a em desenant de d		\$0
Surface Casing 13.3	-	1500.00	\$44.77	DWEB.140	\$67,000			\$67,000
Intermediate Casing 9.62	5	9559.00	\$41.51	DWEB.145	\$397,000	7,777,771	200000000000000000000000000000000000000	\$397,000
Drilling Liner 0		0.00	\$0.00	DWEB.145	\$0			\$0
Drilling Liner 0	-	0.00	\$0.00	DWEB.145	\$0			\$0
Production Casing or Liner 5.5		16120.00	\$24.76			DWEA.100	\$399,000	\$399,000
Production Tie-Back 0		0.00	\$0.00			DWEA.100	\$0	\$0
Tubing 2.37	5	11240.00	\$5.51			DWEA.105	\$62,000	\$62,000
N/C Well Equipment						DWEA.115	\$88,000	\$88,000
Wellhead, Tree, Chokes				DWEB.115	\$38,000	DWEA.120	\$79,000	\$117,000
Liner Hanger, Isolation Packer				DWEB.100	\$0	DWEA.125	\$0	\$0
Packer, Nipples				3555		DWEA.130	\$7,000	\$7,000
Pumping Unit, Engine						DLEQ.100	\$0	\$0
Lift Equipment (BHP, Rods, Anchors)						DLEQ.105	\$0	\$0
Tangible - Lease Equipment							A I	
N/C Lease Equipment				Tenent Comment	EVERTOR EVER EXPENSE	DLEQ.115	\$42,000	\$42,000
Tanks, Tanks Steps, Stairs						DLEQ.120	\$25,000	\$25,000
Battony (Hooter Treater Congrator Car Treating Equipment)	1000					DLEQ.125	\$58,000	\$58,000
Battery (Heater Treater, Separator, Gas Treating Equipment)						DLEQ.130	\$18,000	\$18,000
Flow Lines (Line Pipe from wellhead to central facility)			THE RESERVE THE PARTY OF THE PA		Navasas as Salah	DWEA.135	\$0	\$0
Flow Lines (Line Pipe from wellhead to central facility) Offshore Production Structure for Facilities		S18.1.513.		Section and the	SANTAN SANTAN SANTAN SANTAN		4-1	
Flow Lines (Line Pipe from wellhead to central facility) Offshore Production Structure for Facilities Pipeline to Sales			100			DWEA.140	\$0	\$0
Flow Lines (Line Pipe from wellhead to central facility) Offshore Production Structure for Facilities					\$502,000	DWEA.140	\$0 \$778,000	\$1,280,000
Flow Lines (Line Pipe from wellhead to central facility) Offshore Production Structure for Facilities Pipeline to Sales Total Tangibles				DIDC 20E			\$778,000	\$1,280,000
Flow Lines (Line Pipe from wellhead to central facility) Offshore Production Structure for Facilities Pipeline to Sales				DIDC.295	\$502,000 \$0			