

**APÊNDICE**

**TABELA COM CALCULOS DE CUSTO DO METODO 1**

<b>MÉTODO 1</b>							
<b>Altura do Estéril (m)</b>	<b>m³/h Trator</b>	<b>Largura (m)</b>	<b>Comprimento (m)</b>	<b>Volume trator (m³)</b>	<b>Horas trator</b>	<b>R\$ trator</b>	<b>R\$/m³</b>
5	794,39292	25	200	25000	31,4705723	16106,01	0,64424
6	718,98232	25	200	30000	41,7256433	21354,35	0,711812
7	643,57172	25	200	35000	54,3839929	27832,64	0,795218
8	568,16112	25	200	40000	70,4025646	36030,62	0,900766
9	492,75052	25	200	45000	91,3241046	46737,85	1,038619
10	417,33992	25	200	50000	119,806416	61314,53	1,226291
11	341,92932	25	200	55000	160,851957	82320,81	1,496742
12	266,51872	25	200	60000	225,124902	115214,4	1,92024
13	191,10812	25	200	65000	340,121611	174067,4	2,677961
14	115,69751	25	200	70000	605,025965	309640,2	4,423431
15	40,286913	25	200	75000	1861,64675	952753,6	12,70338
16	-35,12369	25	200	80000	-2277,6651	-1165663	-14,5708
17	-110,5343	25	200	85000	-768,99214	-393555	-4,63006
18	-185,9449	25	200	90000	-484,01437	-247709	-2,75232

<b>Custo Horário</b>	
Trator	511,78

**TABELA COM CALCULOS DE CUSTO DO METODO 2**

MÉTODO 2													
Altura do Estéril (m)	Altura trator	m³/h Trator	m³/h EH	Largura (m)	Comprimento (m)	Volume trator (m³)	Volume EH (m³)	Volume total (m³)	Horas trator	Horas EH	R\$ trator	R\$ EH	R\$/m³
5	1,5	1058,33	698	25	200	7500	17500	25000	7,0866363	25,07163	3626,799	21714,29	1,013644
6	2,5	982,91943	698	25	200	12500	17500	30000	12,7172174	25,07163	6508,417	21714,29	0,940757
7	3,5	907,50883	698	25	200	17500	17500	35000	19,283559	25,07163	9868,94	21714,29	0,902378
8	4,5	832,09823	698	25	200	22500	17500	40000	27,0400769	25,07163	13838,57	21714,29	0,888822
9	5,5	756,68762	698	25	200	27500	17500	45000	36,3426058	25,07163	18599,42	21714,29	0,89586
10	6,5	681,27702	698	25	200	32500	17500	50000	47,7045297	25,07163	24414,22	21714,29	0,92257
11	7,5	605,86642	698	25	200	37500	17500	55000	61,8948314	25,07163	31676,54	21714,29	0,970742
12	8,5	530,45582	698	25	200	42500	17500	60000	80,1197732	25,07163	41003,7	21714,29	1,0453
13	9,5	455,04522	698	25	200	47500	17500	65000	104,38523	25,07163	53422,27	21714,29	1,155947
14	10,5	379,63462	698	25	200	52500	17500	70000	138,290866	25,07163	70774,5	21714,29	1,321268
15	11,5	304,22402	698	25	200	57500	17500	75000	189,005459	25,07163	96729,21	21714,29	1,579247
16	12,5	228,81342	698	25	200	62500	17500	80000	273,14832	25,07163	139791,8	21714,29	2,018827
17	13,5	153,40281	698	25	200	67500	17500	85000	440,018002	25,07163	225192,4	21714,29	2,904785
18	14,5	77,992213	698	25	200	72500	17500	90000	929,579979	25,07163	475740,4	21714,29	5,527275

Custo Horário	
Trator	511,78
EH	866,09

### TABELA COM CALCULOS DE CUSTO DO METODO 3

MÉTODO 3																
Altura trator	m³/h Trator	m³/h EH 1° corte	m³/h EH 2° corte	m³/h 777	Volume trator (m³)	Volume total (m³)	Horas trator	Horas EH 1° corte	Horas 777	Horas EH 2° corte	R\$ trator	R\$ EH 1° corte	R\$ EH 2° corte	R\$ 777	R\$ D8	R\$/m³
-2	0	1016,91	698	491,06	-10000	25000	#DIV/0!	17,20899588	35,63719	25,07163324	0	14904,53924	21714,29083	9192,258	7266,843	2,123117
-1	0	1016,91	698	491,06	-5000	30000	#DIV/0!	17,20899588	35,63719	25,07163324	0	14904,53924	21714,29083	9192,258	7266,843	1,769264
0	0	1016,91	698	491,06	0	35000	#DIV/0!	17,20899588	35,63719	25,07163324	0	14904,53924	21714,29083	9192,258	7266,843	1,516512
1	1096,0353	1016,91	698	491,06	5000	40000	4,56189674	17,20899588	35,63719	25,07163324	2334,688	14904,53924	21714,29083	9192,258	7266,843	1,385315
2	1020,6247	1016,91	698	491,06	10000	45000	9,79792055	17,20899588	35,63719	25,07163324	5014,38	14904,53924	21714,29083	9192,258	7266,843	1,29094
3	945,21413	1016,91	698	491,06	15000	50000	15,86942	17,20899588	35,63719	25,07163324	8121,652	14904,53924	21714,29083	9192,258	7266,843	1,223992
4	869,80353	1016,91	698	491,06	20000	55000	22,9936985	17,20899588	35,63719	25,07163324	11767,72	14904,53924	21714,29083	9192,258	7266,843	1,179012
5	794,39292	1016,91	698	491,06	25000	60000	31,4705723	17,20899588	35,63719	25,07163324	16106,01	14904,53924	21714,29083	9192,258	7266,843	1,153066
6	718,98232	1016,91	698	491,06	30000	65000	41,7256433	17,20899588	35,63719	25,07163324	21354,35	14904,53924	21714,29083	9192,258	7266,843	1,145112
7	643,57172	1016,91	698	491,06	35000	70000	54,3839929	17,20899588	35,63719	25,07163324	27832,64	14904,53924	21714,29083	9192,258	7266,843	1,155865
8	568,16112	1016,91	698	491,06	40000	75000	70,4025646	17,20899588	35,63719	25,07163324	36030,62	14904,53924	21714,29083	9192,258	7266,843	1,188114
9	492,75052	1016,91	698	491,06	45000	80000	91,3241046	17,20899588	35,63719	25,07163324	46737,85	14904,53924	21714,29083	9192,258	7266,843	1,247697
10	417,33992	1016,91	698	491,06	50000	85000	119,806416	17,20899588	35,63719	25,07163324	61314,53	14904,53924	21714,29083	9192,258	7266,843	1,345794
11	341,92932	1016,91	698	491,06	55000	90000	160,851957	17,20899588	35,63719	25,07163324	82320,81	14904,53924	21714,29083	9192,258	7266,843	1,504431

Custo Horário	
Trator	511,78
EH	866,09
CAT 777	257,94
D8	422,27

## PRODUÇÃO MINÉRIO/ESTÉRIL 2012

Trator D11	JAN	FEV	MAR	ABRI.	MAI.	JUN.	JUL.	AGO.	SET.	OUT.	NOV.	DEZ	ACUM
<b>Volume (m3)</b>	3.352.432	3.121.639	3.016.841	3.062.164	3.213.577	3.793.140	3.705.382						<b>23.265.175</b>
HT	7.558	7.150	6.565	6.469	7.144	7.634	7.857						<b>50.376</b>
Produtividade	444	437	460	473	450	497	472	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	463
<b>Escavadeira L993/L994</b>													
<b>Volume (m3)</b>	1.210.927	1.222.940	1.051.637	1.017.861	1.155.496	1.163.418	1.549.257						<b>8.371.538</b>
HT	1.802	1.704	1.723	1.669	1.612	1.526	1.948						<b>11.984</b>
Produtividade	672	718	611	610	717	762	795	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	705
<b>Escavadeira 365CL</b>													
<b>Volume (m3)</b>	-	-	-	-	163.211	<b>112.500</b>	<b>110.386</b>						<b>386.097</b>
HT	-	-	-	-	293	<b>257</b>	<b>256</b>						<b>806</b>
Produtividade	-	-	-	-	557	438	431						486
<b>Escavadeira com Caminhão CAT777</b>													
<b>Volume (m3)</b>	291.278	224.812	286.964	384.770	322.000	322.504	550.867						<b>2.383.195</b>
HT	276	230	295	382	378	288	509						<b>2.358</b>
Produtividade	<b>1.054</b>	<b>977</b>	<b>972</b>	<b>1.008</b>	<b>852</b>	<b>1.120</b>	<b>1.082</b>	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	<b>1.018</b>
Produt.Sistema	<b>504</b>	<b>503</b>	<b>507</b>	<b>524</b>	<b>515</b>	<b>556</b>	<b>560</b>	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	<b>525</b>
<b>Espessura Minério(m)</b>	<b>1,43</b>	<b>1,47</b>	<b>1,52</b>	<b>1,58</b>	<b>1,54</b>	<b>1,48</b>	<b>1,56</b>						<b>1,51</b>
<b>Espessura Cap.(m)</b>	<b>12,52</b>	<b>13,17</b>	<b>13,41</b>	<b>13,81</b>	<b>14,40</b>	<b>14,52</b>	<b>14,53</b>						<b>13,81</b>
<b>DMT(km)</b>	<b>4,682</b>	<b>4,723</b>	<b>4,789</b>	<b>4,963</b>	<b>5,079</b>	<b>5,047</b>	<b>5,070</b>						<b>4,911</b>
<b>Minério(t)</b>	<b>1.176.788</b>	<b>1.085.830</b>	<b>1.108.944</b>	<b>1.048.162</b>	<b>1.173.197</b>	<b>1.157.449</b>	<b>1.281.567</b>						<b>8.031.936</b>
<b>Estéril(m3)</b>	<b>4.854.638</b>	<b>4.569.391</b>	<b>4.355.442</b>	<b>4.464.795</b>	<b>4.854.284</b>	<b>5.391.563</b>	<b>5.915.892</b>						<b>34.406.004</b>
<b>Mov. Pilha-Britador (t)</b>	<b>323.649</b>	<b>311.200</b>	<b>389.961</b>	<b>407.876</b>	<b>353.410</b>	<b>170.946</b>	<b>307.361</b>						<b>2.264.403</b>