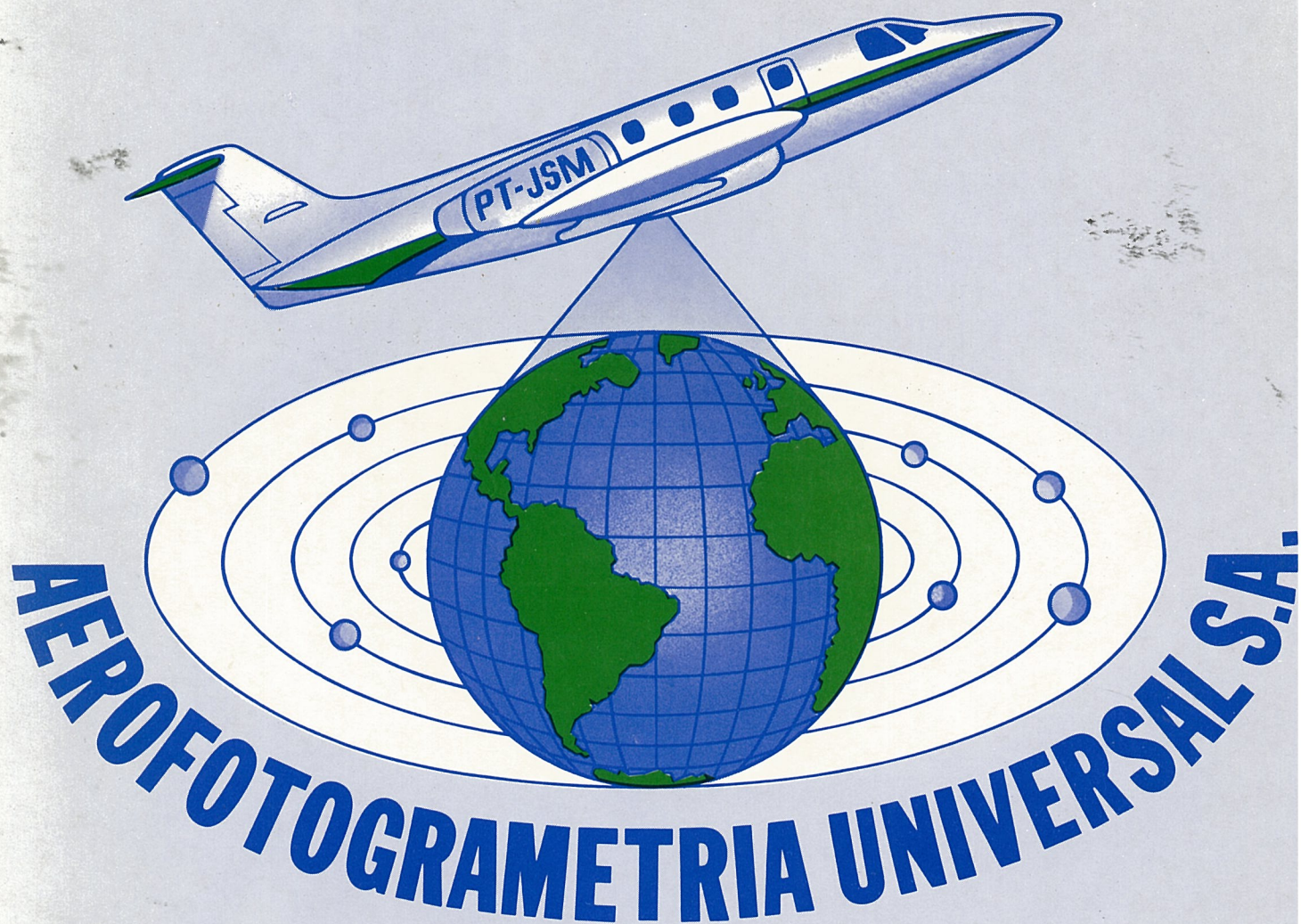




MINERAIS DO PARANÁ S/A
NIVELAMENTO GEOMÉTRICO



528.8
A 252m

MINERAIS DO PARANÁ S/A

NIVELAMENTO GEOMÉTRICO

na 300000
ADOTOLIB

Registro n. 703



Biblioteca/Mineropar

MINEROPAR
BIBLIOTECA

Reg. 703 Data 24.10.97

NIVELAMENTO GEOMÉTRICO

Foi efetuado o nivelamento geométrico, com o nível digital NA3003 da Wild, com leituras simples, tendo feito as 03 linhas de nivelamento para a obtenção e verificação da altitude sendo distribuído:

Linha 01

Vértice 91643 (Ponta Grossa) e
VT01 (Biscaia)

Linha 02

VT03 (Castro) Vértice auxiliar implantado

Linha 03

91644 (Jaguariaíva)

Na linha 01, o nivelamento iniciou-se na RN 36, com altitude de 910,0880 m, cujo ponto pertence à rede altimétrica básica executada para FAMEPAR/Município de Ponta Grossa e de cujo circuito, com a tolerância em $6\text{mm } \sqrt{k}$, com início na RN 2040-E, com altitude em 849,1218m e finalizado na RN 2015-U, cuja altitude é 952,7015m, pertencentes ao Sistema Geodésico Nacional do IBGE, chegando-se ao vértice do IAP 91643 (Ponta Grossa) e conta-nivelada ao ponto de partida para conhecer a altitude deste vértice. Continua-se o nivelamento rumo ao vértice VT01 (Biscaia), localizado na Área I. Efetuou-se, também, o transporte de altitude aos pontos de apoio: HV-201, HV-156 e HV-049 para a verificação destas altitudes com os do resultado do processamento das observações GPS.

Na linha 02, houve apenas o nivelamento com o início da RN 2018-U, pertencente ao Sistema Geodésico Nacional, com a altitude em 1002,2047m para conhecer a altitude do VT03 (Castro) que foi monumentalizado pela AEROFOTOGRAMETRIA UNIVERSAL S.A. para auxiliar ao transporte de coordenadas dos vértices do IAP aos vértices VT01 e VT02, nas áreas de interesse. A altitude encontrada é 702,8636m e 910,7315m; respectivamente estes valores foram utilizados como injeção fixa no ajustamento da rede básica com as observações GPS para a determinação das coordenadas do VT01-VT02.

Na linha 03, também, apenas o nivelamento com o início na RN 2017-E, pertencente ao Sistema Geodésico Nacional do IBGE com altitude em 859,1977m para conhecer a altitude do vértice 91644 pertencente a rede de alta precisão do IAP (Jaguariaíva) ou seja, 913,4120m. Este valor também serviu como injeção fixa no ajustamento das observações GPS.

A tolerância para estas linhas foi de $8\text{mm}\sqrt{k}$, que por si só justifica-se para o uso da escala de trabalho das áreas de interesse, ou seja, 1:5.000, sendo que nesta escala a altimetria pode variar em até 2,5m.

O nível digital NA3003 permite os lances de visada de até 100m distante, para uma boa leitura dos valores altimétricos e também diferentes distâncias das visadas de ré e de vante, por ser o aparelho dotado de componentes eletrônicos que permitem as correções necessárias e aliada a tolerância vertical da escala 1:5.000 e equidistância as curvas de nível em 5m, não houve a necessidade de efetuar o contra-nivelamento, com a exceção da seção RN36-91643 da linha 01.

A determinação altimétrica do vértice (Socavão) foi conhecida com o ajustamento das observações GPS, com a rede básica de pontos VT01 (Biscaia), VT03 (Castro), 91644 (Janquariaíva) e 91643 (Ponta Grossa), todos como injunções fixas, às altitudes conhecidas pelo nivelamento geométrico efetuada pela AEROFOTOGRAMETRIA UNIVERSAL S.A.



ESQUEMA DE NIVELAMENTO

PONTO	Altitude Inicial (m)	Altitude Final (m)	Distância (m)	Desnível (m)
RN-36 → 91643	910,0880	908,1448	855,83	- 1,9432
91643 → RN-36	908,1448	910,0922	852,17	1,9474
RN-36 → PS-55	910,0880	994,5225	4.764,01	84,4345
PS-55 → PS-56	994,5225	1.021,8118	1.776,40	27,2892
PS-56 → PS-500	1021,8118	829,0881	20.018,13	- 192,7233
PS-500 → HV-201	829,0881	842,1059	2.769,43	2,9082
PS-500 → PS-501	829,0881	832,0926	5.666,81	3,0045
PS-501 → HV-156	832,0926	850,1880	2.296,03	18,0954
PS-501 → VT-01	832,0926	702,8636	6.734,78	- 129,229
PS-501 → HV-049	832,0926	921,0121	1.564,13	88,9195
RN2018U → VT-03	1002,2047	1.057,8639	539,43	55,6592
RN2017E → PS-315	859,1977	834,5882	2.360,96	- 24,6095
PS-315 → PS-316	834,5882	885,9747	1.419,65	51,3865
PS-316 → 91644	885,9747	913,4120	962,19	27,4373



PLANILHA JUSTIFICANDO ORIGEM DA RN36

FAMEPAR CÁLCULO DO NIVELAMENTO GEOMÉTRICO PMP6007/PMP6008/PMP6011 PMP6013/PMP6015

Linha-03 - PONTA GROSSA

BÁSICO

SECUNDÁRIO

DATA 09/11/95

FOLHA: 01

SEGMENTO SENTIDO DO NIVELAMENTO	CAD.	FLS.	DIST. (km)	DIST. (km)	VISADAS		DIF. DE NÍVEL C/SINAL (m)	DIF. DE NÍVEL MÉDIA (m)	TOLER. $6\sqrt{k}$ (mm)	ALTITUDE NÃO COMPENSADA	CORREÇÃO	ALTITUDE COMPENSADA	ESTAÇÃO
					RÉ	VANTE							
RN-2040E → RN-27							-17.2270				-0.0006	849.1218	RN-2040-E
			2,14										
RN-27 → RN-28							-37.0254			831.8948	-0.0006	831.8942	RN-27
			1,69										
RN-28 → RN-29							+59.6684			794.8694	-0.0008	794.8682	RN-28
			2,79										
RN-29 → RN-30							+9.7747			854.5378	-0.0004	854.5358	RN-29
			1,36										
RN-30 → RN-31							-7.2930			864.3125	-0.0007	864.3101	RN-30
			2,23										
RN-31 → RN-32							+30.5308			857.0195	-0.0005	857.0164	RN-31
			1,75										
RN-32 → RN-17							-25.9574			887.5503	-0.0005	887.5467	RN-32
			1,72										
RN-17 → RN-33							+33.7025			861.5929	-0.0008	861.5888	RN-17
			2,77										
RN-33 → RN-34							-24.0266			895.2954	-0.0007	895.2905	RN-33
			2,40										
RN-34 → RN-35							+40.2058			871.2688	-0.0006	871.2632	RN-34
			2,14										
RN-35 → RN-36							-1.3798			911.4746	-0.0006	911.4684	RN-35
			2,12										
										910.0948	-0.0006	910.0880	RN-36

Σ D = E =

CÁLCULO DO NIVELAMENTO GEOMÉTRICO

DATA 09/11/95 FOLHA: 02

SECUNDÁRIO

BÁSICO

L

FOLHA: 02

[illegible]

Tolerancia: 0.0326

[illegible]

$\Sigma D = 24.13 \text{ kmm}$	$\Sigma = 33.520$	$E = + 0.0007$
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$$- \text{PARC} / A = 0.029 \text{ cm}^{-1}$$

FAMEPAR CÁLCULO DO NIVELAMENTO GEOMÉTRICO PMPS006 PMPS009

Linha-04- Ponta Grossa

FOLHA 01

BÁSICO

SECUNDÁRIO

DATA

SENTIDO DO NIVELAMENTO	CAD.	FLS.	DIST. (km)	DIST. MÉDIA (km)	VISADAS		DIF. DE NIVEL C/SINAL (m)	DIF. DE NIVEL MÉDIA (m)	TOLER. $\pm \sqrt{k}$ (mm)	ALTITUDE NÃO COMPENSADA	CORREÇÃO	ALTITUDE COMPENSADA	ESTAÇÃO
					RÉ	VANTE							
RN-2040-A → RN-10				1.73			-45.6359				-	846.2423	RN-2040-A
RN-10 → RN-11				1.56			+39.4065			800.6064	-	800.6064	RN-10
RN-11 → RN-12				1.21			+45.2397			840.0129	-	840.0129	RN-11
RN-12 → RN-13				1.89			-20.8130			885.2526	-	885.2526	RN-12
RN-13 → RN-14				1.83			-36.0457			864.4396	-	864.4396	RN-13
RN-14 → RN-15				2.18			-66.8533			828.3939	-	828.3939	RN-14
RN-15 → RN-19				1.36			+4.4177			895.2472	-	895.2472	RN-15
RN-19 → RN-16				1.67			-57.6844			899.6649	-	899.6649	RN-19
RN-16 → RN-18				3.39			+22.8145			841.9805	-0.0001	841.9805	RN-16
RN-18 → RN-26X				2.46			+19.3174			864.7950	-0.0001	864.7949	RN-18
RN-26X → RN-20				2.27			+23.5927			884.1124	-0.0001	884.1122	RN-26X
										907.7051		907.7048	RN-20
Σ =													E =

[illegible]

CNGA1UC1.XLS 21/03/98

4 20554

BÁSICO

DIF-DE NÍVEL MÉDIA

SECUNDÁRIO

DATA

FOLHA: 01

DIST. MÉDIA (km)	DIST. (km)	VISADAS		DIF-DE NÍVEL C/SINAL (m)	DIF-DE NÍVEL MÉDIA (m)	TOLER. $6\sqrt{k}$ (mm)	ALTITUDE NÃO COMPENSADA	CORREÇÃO	ALTITUDE COMPENSADA	ESTAÇÃO
		RÉ	VANTE							
	2.14			-17.2270				-0.0006	849.1218	RN-2040-E
	1.69			-37.0254			831.8948	-0.0006	831.8942	RN-27
	2.79			+59.6684			794.8694	-0.0008	794.8682	RN-28
	1.36			+9.7747			854.5378	-0.0004	854.5358	RN-29
	2.23			-7.2930			864.3125	-0.0007	864.3101	RN-30
	1.75			+30.5308			857.0195	-0.0005	857.0164	RN-31
	1.72			-25.9574			887.5503	-0.0005	887.5467	RN-32
	2.77			+33.7025			861.5929	-0.0008	861.5888	RN-17
	2.40			-24.0266			895.2954	-0.0007	895.2905	RN-33
	2.14			+40.2058			871.2688	-0.0006	871.2632	RN-34
	2.12			-1.3798			911.4746	-0.0006	911.4684	RN-35
							910.0948		910.0880	RN-36

E =

CHGRUC1 JUL 21/03/96



CÓDIGOS DE LEITURA DO RELATÓRIO DO NÍVEL ELETRÔNICO

Códigos:

[571]	Diferença entre nivelamento e contra da visada
[572]	Soma entre nivelamento e contra (ou fechamento do trecho)
[573]	Soma da diferença de equidistância (disRé - disV)
[574]	Soma de distâncias ou distância acumulada
[331]	Visada mira re (direto)
[332]	Visada mira vante (direto)
[335]	Visada mira ré (contra)
[336]	Visada mira vante (contra)
[333]	Visada intermediária
[41XXXX+?.....X]	Início de trecho
[41XXXX+!.....331]	Repetida a visada re
[41XXXX+!.....332]	Repetida a visada vante
[11XXXX+XXXXXXXX]	Número do bloque e ponto
[32..XX+XXXXXXXX]	Distância
[83..XX+XXXXXXXX]	Altitude ou cota



RELATÓRIO DO NIVELAMENTO GEOMÉTRICO

OBRA:MINEROPAR

LINHA:01

N-36, VT-91643, PS-55, PS-56, PS-500 E HV-201.

ARQUIVO:MIN611.NIV

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110002+RN	36	32..00+00028510	331106+00007744
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OBRA: MINEROPAR
LINHA-01 vT01
QUIVO: 012.NIV

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110403+PS 501 32..00+00030960 331108+00189580
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110729+00000109 573..0+00191720 574..0+05643910 83..06+07124618
110730+00000109 32..00+00017500 331108+00025157
110731+00000110 32..00+00026180 332108+00345416
110732+00000110 573..0+00183040 574..0+05687590 83..06+07092593
110733+00000110 32..00+00022250 331108+00050556
110734+00000111 32..00+00025380 332108+00214577
110735+00000111 573..0+00179910 574..0+05735210 83..06+07076190
110736+00000111 32..00+00042840 331108+00048769
110737+00000112 32..00+00046120 332108+00160665
110738+00000112 573..0+00176640 574..0+05824170 83..06+07065001
110739+00000112 32..00+00051520 331108+00109999
110740+00000113 32..00+00022070 332108+00150923
110741+00000113 573..0+00206080 574..0+05897760 83..06+07060908
110742+00000113 32..00+00050870 331108+00182600
110743+00000114 32..00+00053130 332108+00136477
110744+00000114 573..0+00203820 574..0+06001770 83..06+07065521
110745+00000114 32..00+00049020 331108+00295961
110746+00000115 32..00+00012360 332108+00037733
110747+00000115 573..0+00240480 574..0+06063140 83..06+07091344
110748+00000115 32..00+00023590 331108+00370524
110749+00000116 32..00+00016440 332108+00011393
110750+00000116 573..0+00247640 574..0+06103170 83..06+07127257
110751+00000116 32..00+00034230 331108+00149715
110752+00000117 32..00+00024220 332108+00337619
110753+00000117 573..0+00257650 574..0+06161630 83..06+07108466
110754+00000117 32..00+00018690 331108+00010460

110755+00000118	32..00+00019530	332108+00245326	
110756+00000118	573..0+00256810	574..0+06199840	83..06+07084980
110757+00000118	32..00+00047930	331108+00145761	
110758+00000119	32..00+00029340	332108+00070739	
110759+00000119	573..0+00275400	574..0+06277120	83..06+07092482
110760+00000119	32..00+00053260	331108+00303960	
110761+00000120	32..00+00036390	332108+00126610	
110762+00000120	573..0+00292270	574..0+06366770	83..06+07110217
110763+00000120	32..00+00022610	331108+00056684	
110764+00000121	32..00+00025890	332108+00297542	
110765+00000121	573..0+00288990	574..0+06415280	83..06+07086131
110766+00000121	32..00+00017420	331108+00054016	
110767+00000122	32..00+00024220	332108+00304806	
110768+00000122	573..0+00282190	574..0+06456910	83..06+07061052
110769+00000122	32..00+00016250	331108+00044318	
110770+00000123	32..00+00034110	332108+00289744	
110771+00000123	573..0+00264330	574..0+06507270	83..06+07036510
110772+00000123	32..00+00036300	331108+00041179	
110773+00000124	32..00+00026430	332108+00201953	
110774+00000124	573..0+00274200	574..0+06570010	83..06+07020432
110775+00000124	32..00+00050270	331108+00130855	
110776+00000125	32..00+00045870	332108+00155069	
110777+00000125	573..0+00278600	574..0+06666150	83..06+07018011
110778+00000125	32..00+00044630	331108+00172136	
110779+VT 01	32..00+00024000	332108+00065890	
110780+VT 01	573..0+00299230	574..0+06734780	83..06+07028636

OBRA:MINEROPAR
HV:049
ARQUIVO:013.NIV

110803+PS	501	83..16+08320926	
110804+PS	501	32..00+00089510	331106+00035750
110805+00000001		32..00+00010690	332106+00005622 83..06+08351054
110806+00000001		32..00+00026920	331106+00035128
110807+00000002		32..00+00016350	332106+00002003 83..06+08384179
110808+00000002		32..00+00044200	331106+00033027
110809+00000003		32..00+00014250	332106+00003289 83..06+08413917
110810+00000003		32..00+00017360	331106+00031104
110811+00000004		32..00+00023750	332106+00002406 83..06+08442616
110812+00000004		32..00+00048250	331106+00030289
110813+00000005		32..00+00011020	332106+00003375 83..06+08469529
110814+00000005		32..00+00017070	331106+00038226
110815+00000006		32..00+00009460	332106+00002090 83..06+08505666
110816+00000006		32..00+00017920	331106+00035640
110817+00000007		32..00+00011260	332106+00003626 83..06+08537680
110818+00000007		32..00+00033500	331106+00037269
110819+00000008		32..00+00015930	332106+00003438 83..06+08571511
110820+00000008		32..00+00050860	331106+00032593
110821+00000009		32..00+00013890	332106+00001668 83..06+08602436
110822+00000009		32..00+00038060	331106+00034894
110823+00000010		32..00+00013100	332106+00003153 83..06+08634176
110824+00000010		32..00+00018310	331106+00038973
110825+00000011		32..00+00009990	332106+00001210 83..06+08671939
110826+00000011		32..00+00018910	331106+00039275
110827+00000012		32..00+00007050	332106+00001949 83..06+08709265
110828+00000012		32..00+00012690	331106+00037823
110829+00000013		32..00+00005490	332106+00003958 83..06+08743130
110830+00000013		32..00+00013140	331106+00039131
110831+00000014		32..00+00008630	332106+00001659 83..06+08780602
110832+00000014		32..00+00018970	331106+00038497
110833+00000015		32..00+00083010	332106+00006032 83..06+08813067
110834+00000015		32..00+00020000	331106+00036323
110835+00000016		32..00+00011350	332106+00002110 83..06+08847280
110836+00000016		32..00+00043530	331106+00037586
110837+00000017		32..00+00020630	332106+00002566 83..06+08882299
110838+00000017		32..00+00029850	331106+00036943
110839+00000018		32..00+00012100	332106+00003950 83..06+08915292
110840+00000018		32..00+00026640	331106+00037871
110841+00000019		32..00+00018650	332106+00002505 83..06+08950658
110842+00000019		32..00+00025240	331106+00036310
110843+00000020		32..00+00012140	332106+00003187 83..06+08983782
110844+00000020		32..00+00020340	331106+00035201
110845+00000021		32..00+00016160	332106+00001072 83..06+09017911
110846+00000021		32..00+00031720	331106+00038470
110847+00000022		32..00+00016450	332106+00002263 83..06+09054118
110848+00000022		32..00+00031160	331106+00038159
110849+00000023		32..00+00014450	332106+00001953 83..06+09090324
110850+00000023		32..00+00027600	331106+00035839
110851+00000024		32..00+00018710	332106+00002992 83..06+09123171
110852+00000024		32..00+00035180	331106+00037913
110853+00000025		32..00+00019940	332106+00003788 83..06+09157295
110854+00000025		32..00+00030330	331106+00035889
110855+00000026		32..00+00013230	332106+00002844 83..06+09190341
110856+00000026		32..00+00023670	331106+00038025

110857+00000027 32..00+00010320 332106+00002268 83..06+09226098
110858+00000027 32..00+00024340 331106+00037080
110859+00000028 32..00+00051750 332106+00008202 83..06+09254976
110860+00000028 32..00+00026880 331106+00031854
110861+00000029 32..00+00014890 332106+00003604 83..06+09283226
110862+00000029 32..00+00022830 331106+00012197
110863+00000030 32..00+00021130 332106+00035379 83..06+09260044
110864+00000030 32..00+00013500 331106+00004835
110865+00000031 32..00+00061060 332106+00024292 83..06+09240587
110866+00000031 32..00+00018500 331106+00007443
110867+00000032 32..00+00025380 332106+00030721 83..06+09217309
110868+00000032 32..00+00019290 331106+00008512
110869+HV 49 32..00+00027050 332106+00015700 83..06+09210121

OBRA:MINEROPAR
LINHA:01
RN-2018U IBGE
CASTRO
ARQUIVO:MIN002.NIV

410339+?.....1

110340+RN 2018U	83..16+10022047	
110341+RN 2018U	32..00+00020360	331108+00133316
110342+000000001	32..00+00026500	332108+00029663
110343+000000001	573..0-00006140	574..0+00046860 83..06+10032412
110344+000000001	32..00+00013500	331108+00228212
110345+000000002	32..00+00014750	332108+00089660
110346+000000002	573..0-00007390	574..0+00075100 83..06+10046268
110347+000000002	32..00+00019470	331108+00357524
110348+000000003	32..00+00020100	332108+00026928
110349+000000003	573..0-00008020	574..0+00114670 83..06+10079327
110350+000000003	32..00+00041760	331108+00374098
110351+000000004	32..00+00025540	332108+00040117
110352+000000004	573..0+00008200	574..0+00181970 83..06+10112725
110353+000000004	32..00+00044780	331108+00316264
110354+000000005	32..00+00017800	332108+00093892
110355+000000005	573..0+00035170	574..0+00244560 83..06+10134962
110356+000000005	32..00+00013510	331108+00355789
110357+000000006	32..00+00010100	332108+00011137
110358+000000006	573..0+00038590	574..0+00268170 83..06+10169428
110359+000000006	32..00+00016340	331108+00367644
110360+000000007	32..00+00010450	332108+00039322
110361+000000007	573..0+00044480	574..0+00294960 83..06+10202260
110362+000000007	32..00+00024230	331108+00369848
110363+000000008	32..00+00012200	332108+00027149
110364+000000008	573..0+00056520	574..0+00331400 83..06+10236530
110365+000000008	32..00+00019220	331108+00328791
110366+000000009	32..00+00006490	332108+00055244
110367+000000009	573..0+00069250	574..0+00357110 83..06+10263885
110368+000000009	32..00+00014250	331108+00359953
110369+000000010	32..00+00008380	332108+00008733
110370+000000010	573..0+00075120	574..0+00379740 83..06+10299007
110371+000000010	32..00+00012800	331108+00383332
110372+000000011	32..00+00005740	332108+00036677
110373+000000011	573..0+00082180	574..0+00398280 83..06+10333672
110374+000000011	32..00+00009570	331108+00328968
110375+000000012	32..00+00003840	332108+00054869
110376+000000012	573..0+00087910	574..0+00411700 83..06+10361082
110377+000000012	32..00+00010440	331108+00370639
110378+000000013	32..00+00004720	332108+00044462
110379+000000013	573..0+00093640	574..0+00426860 83..06+10393700
110380+000000013	32..00+00009780	331108+00339803
110381+000000014	32..00+00007170	332108+00045991
110382+000000014	573..0+00096240	574..0+00443800 83..06+10423081
110383+000000014	32..00+00015780	331108+00373860
110384+000000015	32..00+00006690	332108+00051135
110385+000000015	573..0+00105330	574..0+00466270 83..06+10455353
110386+000000015	32..00+00012410	331108+00296150
110387+000000016	32..00+00004920	332108+00017250
110388+000000016	573..0+00112810	574..0+00483600 83..06+10483243
110389+000000016	32..00+00007980	331108+00332900

110390+00000017 32..00+00006110 332108+00069432
110391+00000017 573..0+00114680 574..0+00497690 83..06+10509590
110392+00000017 32..00+00006290 331108+00318006
110393+00000018 32..00+00008260 332108+00024854
110394+00000018 573..0+00112710 574..0+00512230 83..06+10538905
110395+00000018 32..00+00011030 331108+00318426
110396+00000019 32..00+00007050 332108+00042782
110397+00000019 573..0+00116690 574..0+00530310 83..06+10566470
110398+00000019 32..00+00004790 331108+00203712
110399+VT 03 32..00+00004320 332108+00082025
110400+VT 03 573..0+00117160 574..0+00539430 83..06+10578639

OBRA:MINEROPAR
LINHA-01
RN-2017E IBGE
JAGUARIAIVA
ARQUIVO:MIN001.NIV

410170+?.....1

110171+RN 2017E	83..16+08591977	
110172+RN 2017E	32..00+00031180	331108+00121937
110173+00000001	32..00+00023120	332108+00064888
110174+00000001	573..0+00008060	574..0+00054300 83..06+08597682
110175+00000001	32..00+00043540	331108+00346018
110176+00000002	32..00+00043670	332108+00025355
110177+00000002	573..0+00007930	574..0+00141510 83..06+08629748
110178+00000002	32..00+00052130	331108+00222219
110179+00000003	32..00+00053040	332108+00172538
110180+00000003	573..0+00007010	574..0+00246680 83..06+08634716
110181+00000003	32..00+00058190	331108+00048734
110182+00000004	32..00+00059690	332108+00352401
110183+00000004	573..0+00005510	574..0+00364570 83..06+08604350
110184+00000004	32..00+00024210	331108+00041521
110185+00000005	32..00+00047900	332108+00370682
110186+00000005	573..0-00018180	574..0+00436680 83..06+08571433
110187+00000005	32..00+00018310	331108+00058873
110188+00000006	32..00+00027310	332108+00309376
110189+00000006	573..0-00027180	574..0+00482310 83..06+08546383
110190+00000006	32..00+00022310	331108+00029298
110191+00000007	32..00+00030960	332108+00340683
110192+00000007	573..0-00035830	574..0+00535570 83..06+08515245
110193+00000007	32..00+00022280	331108+00029381
110194+00000008	32..00+00027010	332108+00313911
110195+00000008	573..0-00040560	574..0+00584870 83..06+08486792
110196+00000008	32..00+00019150	331108+00040922
110197+00000009	32..00+00023370	332108+00286761
110198+00000009	573..0-00044780	574..0+00627390 83..06+08462208
110199+00000009	32..00+00023280	331108+00023831
110200+00000010	32..00+00026350	332108+00303306
110201+00000010	573..0-00047840	574..0+00677010 83..06+08434260
110202+00000010	32..00+00023690	331108+00015200
110203+00000011	32..00+00025220	332108+00295782
110204+00000011	573..0-00049370	574..0+00725920 83..06+08406202
110205+00000011	32..00+00015690	331108+00057191
110206+00000012	32..00+00043820	332108+00318851
110207+00000012	573..0-00077500	574..0+00785420 83..06+08380036
110208+00000012	32..00+00063460	331108+00163022
110209+00000013	32..00+00030040	332108+00114713
110210+00000013	573..0-00044080	574..0+00878920 83..06+08384867
110211+00000013	32..00+00059350	331108+00266671
110212+00000014	32..00+00057940	332108+00036258
110213+00000014	573..0-00042670	574..0+00996210 83..06+08407908
110214+00000014	32..00+00055410	331108+00262825
110215+00000015	32..00+00033480	332108+00077399
110216+00000015	573..0-00020740	574..0+01085110 83..06+08426451
110217+00000015	32..00+00060000	331108+00329418
110218+00000016	32..00+00040650	332108+00034208
110219+00000016	573..0-00001390	574..0+01185760 83..06+08455972
110220+00000016	32..00+00061610	331108+00292314
110221+00000017	32..00+00034900	332108+00172763
110222+00000017	573..0+00025320	574..0+01282270 83..06+08467927

110223+00000017	32..00+00051580	331108+00090492	
110224+00000018	32..00+00055060	332108+00232388	
110225+00000018	573..0+00021850	574..0+01388910	83..06+08453737
110226+00000018	32..00+00033600	331108+00085232	
110227+00000019	32..00+00020520	332108+00178847	
110228+00000019	573..0+00034930	574..0+01443040	83..06+08444376
110229+00000019	32..00+00045800	331108+00120460	
110230+00000020	32..00+00024830	332108+00159271	
110231+00000020	573..0+00055900	574..0+01513670	83..06+08440495
110232+00000020	32..00+00056830	331108+00090131	
110233+00000021	32..00+00055520	332108+00234500	
110234+00000021	573..0+00057220	574..0+01626020	83..06+08426058
110235+00000021	32..00+00049310	331108+00036908	
110236+00000022	32..00+00047870	332108+00283630	
110237+00000022	573..0+00058660	574..0+01723200	83..06+08401386
110238+00000022	32..00+00055460	331108+00048041	
110239+00000023	32..00+00053990	332108+00216282	
110240+00000023	573..0+00060130	574..0+01832640	83..06+08384561
110241+00000023	32..00+00069170	331108+00102801	
110242+00000024	32..00+00029460	332108+00196570	
110243+00000024	573..0+00099840	574..0+01931280	83..06+08375184
110244+00000024	32..00+00039850	331108+00078336	
110245+00000025	32..00+00049780	332108+00283966	
110246+00000025	573..0+00089910	574..0+02020910	83..06+08354622
110247+00000025	32..00+00044960	331108+00110394	
110248+00000026	32..00+00045340	332108+00148993	
110249+00000026	573..0+00089520	574..0+02111210	83..06+08350762
110250+00000026	32..00+00043060	331108+00158896	
110251+00000027	32..00+00055690	332108+00106811	
110252+00000027	573..0+00076890	574..0+02209970	83..06+08355970
110253+00000027	32..00+00057600	331108+00079227	
110254+00000028	32..00+00047320	332108+00199541	
110255+00000028	573..0+00087160	574..0+02314890	83..06+08343939
110256+00000028	32..00+00026810	331108+00168598	
110257+PS 315	32..00+00019270	332108+00149162	
110258+PS 315	573..0+00094700	574..0+02360960	83..06+08345882

110259+?.....1

110260+PS 315	83..16+08345882		
110261+PS 315	32..00+00029300	331108+00068338	
110262+00000001	32..00+00028410	332108+00167335	
110263+00000001	573..0+00000890	574..0+00057700	83..06+08335983
110264+00000001	32..00+00041990	331108+00121596	
110265+00000002	32..00+00045610	332108+00122019	
110266+00000002	573..0+00002720	574..0+00145300	83..06+08335940
110267+00000002	32..00+00057310	331108+00131226	
110268+00000003	32..00+00037110	332108+00168822	
110269+00000003	573..0+00017480	574..0+00239730	83..06+08332180
110270+00000003	32..00+00045850	331108+00176107	
110271+00000004	32..00+00046720	332108+00167097	
110272+00000004	573..0+00016610	574..0+00332300	83..06+08333081
110273+00000004	32..00+00052490	331108+00129459	
110274+00000005	32..00+00044310	332108+00142302	
110275+00000005	573..0+00024790	574..0+00429090	83..06+08331797
110276+00000005	32..00+00050100	331108+00154977	
110277+00000006	32..00+00050560	332108+00153366	
110278+00000006	573..0+00024330	574..0+00529760	83..06+08331958
110279+00000006	32..00+00054740	331108+00152160	

110280+00000007	32..00+00039590	332108+00073117	
110281+00000007	573..0+00039480	574..0+00624090	83..06+08339863
110282+00000007	32..00+00027280	331108+00356245	
110283+00000008	32..00+00038220	332108+00121908	
110284+00000008	573..0+00028540	574..0+00689580	83..06+08363296
110285+00000008	32..00+00022190	331108+00285974	
110286+00000009	32..00+00013910	332108+00031966	
110287+00000009	573..0+00036820	574..0+00725680	83..06+08388697
110288+00000009	32..00+00023390	331108+00373632	
110289+00000010	32..00+00015640	332108+00035062	
110290+00000010	573..0+00044560	574..0+00764710	83..06+08422554
110291+00000010	32..00+00025790	331108+00375421	
110292+00000011	32..00+00026650	332108+00201731	
110293+00000011	573..0+00043700	574..0+00817150	83..06+08439923
110294+00000011	32..00+00037080	331108+00265891	
110295+00000012	32..00+00020290	332108+00018886	
110296+00000012	573..0+00060500	574..0+00874520	83..06+08464624
110297+00000012	32..00+00020740	331108+00339948	
110298+00000013	32..00+00010010	332108+00051310	
110299+00000013	573..0+00071230	574..0+00905270	83..06+08493487
110300+00000013	32..00+00020690	331108+00372094	
110301+00000014	32..00+00009390	332108+00048761	
110302+00000014	573..0+00082540	574..0+00935350	83..06+08525821
110303+00000014	32..00+00018710	331108+00367804	
110304+00000015	32..00+00010250	332108+00038726	
110305+00000015	573..0+00090990	574..0+00964320	83..06+08558729
110306+00000015	32..00+00020900	331108+00383704	
110307+00000016	32..00+00014240	332108+00023870	
110308+00000016	573..0+00097650	574..0+00999460	83..06+08594712
110309+00000016	32..00+00020810	331108+00327921	
110310+00000017	32..00+00010880	332108+00073820	
110311+00000017	573..0+00107580	574..0+01031150	83..06+08620122
110312+00000017	32..00+00022060	331108+00354449	
110313+00000018	32..00+00017620	332108+00009302	
110314+00000018	573..0+00112020	574..0+01070830	83..06+08654637
110315+00000018	32..00+00027620	331108+00364099	
110316+00000019	32..00+00016470	332108+00029303	
110317+00000019	573..0+00123170	574..0+01114930	83..06+08688116
110318+00000019	32..00+00020720	331108+00370866	
110319+00000020	32..00+00014770	332108+00024287	
110320+00000020	573..0+00129130	574..0+01150420	83..06+08722774
110321+00000020	32..00+00021010	331108+00373962	
110322+00000021	32..00+00012950	332108+00097671	
110323+00000021	573..0+00137180	574..0+01184380	83..06+08750403
110324+00000021	32..00+00025280	331108+00297422	
110325+00000022	32..00+00021650	332108+00015521	
110326+00000022	573..0+00140820	574..0+01231320	83..06+08778593
110327+00000022	32..00+00026890	331108+00338431	
110328+00000023	32..00+00018380	332108+00029684	
110329+00000023	573..0+00149330	574..0+01276580	83..06+08809468
110330+00000023	32..00+00027970	331108+00340896	
110331+00000024	32..00+00017260	332108+00037781	
110332+00000024	573..0+00160030	574..0+01321810	83..06+08839780
110333+00000024	32..00+00033000	331108+00283241	
110334+00000025	32..00+00033180	332108+00060985	
110335+00000025	573..0+00159860	574..0+01387990	83..06+08862005
110336+00000025	32..00+00017850	331108+00117133	
110337+PS 316	32..00+00013800	332108+00139714	
110338+PS 316	573..0+00163910	574..0+01419650	83..06+08859747

0001+?.....2
110002+PS 316 83..16+08859747
110003+PS 316 32..00+00028260 331108+00173698
110004+00000001 32..00+00024800 332108+00157355
110005+00000001 32..00+00024770 336108+00157390
110006+PS 316 32..00+00028270 335108+00173717
110007+00000001 571..8+00000016 572..8+00000016 574..0+00053050 83..06+08861381
110008+00000001 32..00+00032790 331108+00091810
110009+00000002 32..00+00035520 332108+00203756
110010+00000002 32..00+00035510 336108+00203760
110011+00000001 32..00+00032800 335108+00091792
110012+00000002 571..8+00000022 572..8+00000038 574..0+00121360 83..06+08850185
110013+00000002 32..00+00035020 331108+00126768
110014+00000003 32..00+00032330 332108+00139649
110015+00000003 32..00+00032290 336108+00139692
110016+00000002 32..00+00035020 335108+00126759
110017+00000003 571..8+00000051 572..8+00000089 574..0+00188690 83..06+08848894
110018+00000003 32..00+00042150 331108+00184373
110019+00000004 32..00+00038170 332108+00083168
110020+00000004 32..00+00038170 336108+00083166
110021+00000003 32..00+00042180 335108+00184367
110022+00000004 571..8+00000004 572..8+00000093 574..0+00269030 83..06+08859014
110023+00000004 32..00+00038500 331108+00231923
110024+00000005 32..00+00031400 332108+00063546
110025+00000005 32..00+00031410 336108+00063570
110026+00000004 32..00+00038530 335108+00231994
110027+00000005 571..8-00000048 572..8+00000046 574..0+00338960 83..06+08875854
110028+00000005 32..00+00038490 331108+00204583
110029+00000006 32..00+00025600 332108+00141650
110030+00000006 32..00+00025600 336108+00141636
110031+00000005 32..00+00038510 335108+00204608
110032+00000006 571..8-00000038 572..8+00000007 574..0+00403050 83..06+08882150
110033+00000006 32..00+00038550 331108+00253616
110034+00000007 32..00+00031830 332108+00054223
110035+00000007 32..00+00031820 336108+00054081
110036+00000006 32..00+00038550 335108+00253607
110037+00000007 571..8-00000133 572..8-00000126 574..0+00473430 83..06+08902096
110038+00000007 32..00+00027840 331108+00252133
110039+00000008 32..00+00037620 332108+00087848
110040+00000008 32..00+00037610 336108+00087845
110041+00000007 32..00+00027880 335108+00252189
110042+00000008 571..8-00000058 572..8-00000184 574..0+00538900 83..06+08918527
110043+00000008 32..00+00051470 331108+00236636
110044+00000009 32..00+00040100 332108+00072388
110045+00000009 32..00+00040100 336108+00072414
110046+00000008 32..00+00051470 335108+00236609
110047+00000009 571..8+00000053 572..8-00000131 574..0+00630480 83..06+08934949
110048+00000009 32..00+00033020 331108+00289220
110049+00000010 32..00+00017270 332108+00039646
110050+00000010 32..00+00017270 336108+00039636
110051+00000009 32..00+00033000 335108+00289218
110052+00000010 571..8-00000007 572..8-00000138 574..0+00680750 83..06+08959907
110053+00000010 32..00+00028570 331108+00365853
110054+00000011 32..00+00013300 332108+00036679
110055+00000011 32..00+00013290 336108+00036742
110056+00000010 32..00+00028560 335108+00365879
110057+00000011 571..8+00000037 572..8-00000101 574..0+00722620 83..06+08992823
110058+00000011 32..00+00024970 331108+00372568

110059+00000012 32..00+00011800 332108+00055724
110060+00000012 32..00+00011800 336108+00055751
110061+00000011 32..00+00024940 335108+00372545
110062+00000012 571..8+00000050 572..8-00000051 574..0+00759380 83..06+09024504
110063+00000012 32..00+00034640 331108+00396193
110064+00000013 32..00+00013510 332108+00057142
110065+00000013 32..00+00013510 336108+00057147
110066+00000012 32..00+00034620 335108+00396182
110067+00000013 571..8+00000017 572..8-00000034 574..0+00807520 83..06+09058409
110068+00000013 32..00+00031380 331108+00398284
110069+00000014 32..00+00014350 332108+00045278
110070+00000014 32..00+00014360 336108+00045296
110071+00000013 32..00+00031400 335108+00398326
110072+00000014 571..8-00000024 572..8-00000058 574..0+00853260 83..06+09093711
110073+00000014 32..00+00030420 331108+00304046
110074+00000015 32..00+00009180 332108+00043170
110075+00000015 32..00+00009190 336108+00043189
110076+00000014 32..00+00030430 335108+00304054
110077+00000015 571..8+00000010 572..8-00000048 574..0+00892870 83..06+09119798
110078+00000015 32..00+00034990 331108+00184263
110079+IAP91644 32..00+00034310 332108+00041022
110080+IAP91644 32..00+00034300 336108+00041026
110081+00000015 32..00+00035050 335108+00184237
110082+IAP91644 571..8+00000029 572..8-00000019 574..0+00962190 83..06+09134120

OBRA:MINEROPAR
~~BISCAIA~~ 140156
ARQUIVO:MIN011.NIV

410548+?.....1

110549+PS	501	83..16+08320926	
110550+PS	501	32..00+00024890	331108+00063346
110551+00000001		32..00+00035470	332108+00352221
110552+00000001		573..0-00010580	574..0+00060350 83..06+08292038
110553+00000001		32..00+00046610	331108+00036446
110554+00000002		32..00+00058740	332108+00272938
110555+00000002		573..0-00022710	574..0+00165700 83..06+08268389
110556+00000002		32..00+00018800	331108+00076581
110557+00000003		32..00+00036250	332108+00261115
110558+00000003		573..0-00040160	574..0+00220760 83..06+08249936
110559+00000003		32..00+00049380	331108+00058851
110560+00000004		32..00+00061640	332108+00053495
110561+00000004		573..0-00052420	574..0+00331780 83..06+08250471
110562+00000004		32..00+00039390	331108+00112950
110563+00000005		32..00+00045560	332108+00322816
110564+00000005		573..0-00058600	574..0+00416730 83..06+08229485
110565+00000005		32..00+00026870	331108+00302754
110566+00000006		32..00+00008290	332108+00019156
110567+00000006		573..0-00040020	574..0+00451890 83..06+08257845
110568+00000006		32..00+00016260	331108+00386882
110569+00000007		32..00+00008430	332108+00006605
110570+00000007		573..0-00032190	574..0+00476580 83..06+08295872
110571+00000007		32..00+00014450	331108+00342597
110572+00000008		32..00+00007830	332108+00011667
110573+00000008		573..0-00025560	574..0+00498860 83..06+08328965
110574+00000008		32..00+00010410	331108+00352393
110575+00000009		32..00+00006190	332108+00008234
110576+00000009		573..0-00021350	574..0+00515460 83..06+08363381
110577+00000009		32..00+00008680	331108+00336449
110578+00000010		32..00+00004340	332108+00040901
110579+00000010		573..0-00017010	574..0+00528480 83..06+08392936
110580+00000010		32..00+00008580	331108+00333764
110581+00000011		32..00+00006360	332108+00014399
110582+00000011		573..0-00014790	574..0+00543420 83..06+08424873
110583+00000011		32..00+00010740	331108+00340010
110584+00000012		32..00+00006030	332108+00028304
110585+00000012		573..0-00010080	574..0+00560190 83..06+08456043
110586+00000012		32..00+00009900	331108+00302299
110587+00000013		32..00+00007200	332108+00019078
110588+00000013		573..0-00007380	574..0+00577290 83..06+08484365
110589+00000013		32..00+00010120	331108+00270135
110590+00000014		32..00+00010030	332108+00005982
110591+00000014		573..0-00007300	574..0+00597440 83..06+08510781
110592+00000014		32..00+00017990	331108+00355219
110593+00000015		32..00+00007980	332108+00026431
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110595+00000015		32..00+00018590	331108+00316518
110596+00000016		32..00+00013780	332108+00013103
110597+00000016		573..0+00007520	574..0+00655770 83..06+08574001
110598+00000016		32..00+00021270	331108+00347477
110599+00000017		32..00+00007780	332108+00028249
110600+00000017		573..0+00021000	574..0+00684830 83..06+08605924
110601+00000017		32..00+00018710	331108+00380068

110602+00000018	32..00+00008170	332108+00016501	
110603+00000018	573..0+00031550	574..0+00711700	83..06+08642280
110604+00000018	32..00+00018210	331108+00374480	
110605+00000019	32..00+00007020	332108+00035111	
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110608+00000020	32..00+00007250	332108+00033486	
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110610+00000020	32..00+00018270	331108+00392438	
110611+00000021	32..00+00007720	332108+00025662	
110612+00000021	573..0+00065870	574..0+00790010	83..06+08744252
110613+00000021	32..00+00009500	331108+00258739	
110614+00000022	32..00+00012010	332108+00013100	
110615+00000022	573..0+00063360	574..0+00811520	83..06+08768816
110616+00000022	32..00+00024340	331108+00345499	
110617+00000023	32..00+00010260	332108+00064459	
110618+00000023	573..0+00077440	574..0+00846120	83..06+08796920
110619+00000023	32..00+00027700	331108+00354399	
110620+00000024	32..00+00011930	332108+00029948	
110621+00000024	573..0+00093200	574..0+00885740	83..06+08829366
110622+00000024	32..00+00046380	331108+00248070	
110623+00000025	32..00+00020640	332108+00082454	
110624+00000025	573..0+00118940	574..0+00952770	83..06+08845927
110625+00000025	32..00+00044090	331108+00251734	
110626+00000026	32..00+00023410	332108+00030592	
110627+00000026	573..0+00139630	574..0+01020270	83..06+08868041
110628+00000026	32..00+00019010	331108+00334277	
110629+00000027	32..00+00009010	332108+00015801	
110630+00000027	573..0+00149630	574..0+01048290	83..06+08899889
110631+00000027	32..00+00014020	331108+00375065	
110632+00000028	32..00+00010310	332108+00024032	
110633+00000028	573..0+00153340	574..0+01072610	83..06+08934992
110634+00000028	32..00+00017390	331108+00348119	
110635+00000029	32..00+00008760	332108+00006529	
110636+00000029	573..0+00161970	574..0+01098770	83..06+08969151
110637+00000029	32..00+00010490	331108+00334420	
110638+00000030	32..00+00006540	332108+00020334	
110639+00000030	573..0+00165930	574..0+01115800	83..06+09000560
110640+00000030	32..00+00013920	331108+00340204	
110641+00000031	32..00+00009680	332108+00022483	
110642+00000031	573..0+00170170	574..0+01139390	83..06+09032332
110643+00000031	32..00+00024790	331108+00341616	
110644+00000032	32..00+00007660	332108+00041490	
110645+00000032	573..0+00187300	574..0+01171850	83..06+09062345
110646+00000032	32..00+00023300	331108+00194222	
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110648+00000033	573..0+00171090	574..0+01234650	83..06+09069157
110649+00000033	32..00+00050410	331108+00222453	
110650+00000034	32..00+00013150	332108+00020266	
110651+00000034	573..0+00208360	574..0+01298220	83..06+09089376
110652+00000034	32..00+00022650	331108+00156288	
110653+00000035	32..00+00051260	332108+00295358	
110654+00000035	573..0+00179750	574..0+01372130	83..06+09075469
110655+00000035	32..00+00018610	331108+00021243	
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110657+00000036	573..0+00141250	574..0+01447860	83..06+09051232
110658+00000036	32..00+00025500	331108+00043623	
110659+00000037	32..00+00020810	332108+00358743	
110660+00000037	573..0+00145940	574..0+01494160	83..06+09019720
110661+00000037	32..00+00009970	331108+00025946	

110662+00000038	32..00+00014350	332108+00327280	
110663+00000038	573..0+00141550	574..0+01518490	83..06+08989586
110664+00000038	32..00+00009810	331108+00019621	
110665+00000039	32..00+00016160	332108+00356015	
110666+00000039	573..0+00135210	574..0+01544460	83..06+08955947
110667+00000039	32..00+00010730	331108+00028001	
110668+00000040	32..00+00032870	332108+00377564	
110669+00000040	573..0+00113070	574..0+01588050	83..06+08920991
110670+00000040	32..00+00010070	331108+00040968	
110671+00000041	32..00+00017820	332108+00374052	
110672+00000041	573..0+00105310	574..0+01615940	83..06+08887682
110673+00000041	32..00+00008800	331108+00034610	
110674+00000042	32..00+00011590	332108+00346098	
110675+00000042	573..0+00102520	574..0+01636330	83..06+08856534
110676+00000042	32..00+00006000	331108+00032191	
110677+00000043	32..00+00008940	332108+00320898	
110678+00000043	573..0+00099580	574..0+01651270	83..06+08827663
110679+00000043	32..00+00006540	331108+00012911	
110680+00000044	32..00+00008120	332108+00283182	
110681+00000044	573..0+00098010	574..0+01665930	83..06+08800636
110682+00000044	32..00+00007510	331108+00015790	
110683+00000045	32..00+00013500	332108+00349770	
110684+00000045	573..0+00092020	574..0+01686930	83..06+08767238
110685+00000045	32..00+00007500	331108+00042136	
110686+00000046	32..00+00011380	332108+00340126	
110687+00000046	573..0+00088130	574..0+01705810	83..06+08737439
110688+00000046	32..00+00007490	331108+00014553	
110689+00000047	32..00+00009780	332108+00321033	
110690+00000047	573..0+00085840	574..0+01723080	83..06+08706791
110691+00000047	32..00+00005770	331108+00036826	
110692+00000048	32..00+00009500	332108+00331192	
110693+00000048	573..0+00082100	574..0+01738350	83..06+08677354
110694+00000048	32..00+00005860	331108+00034409	
110695+00000049	32..00+00008460	332108+00332263	
110696+00000049	573..0+00079500	574..0+01752670	83..06+08647569
110697+00000049	32..00+00006060	331108+00012246	
110698+00000050	32..00+00008590	332108+00331790	
110699+00000050	573..0+00076970	574..0+01767320	83..06+08615614
110700+00000050	32..00+00006750	331108+00004901	
110701+00000051	32..00+00011660	332108+00356154	
110702+00000051	573..0+00072070	574..0+01785730	83..06+08580489
110703+00000051	32..00+00010750	331108+00008172	
110704+00000052	32..00+00010590	332108+00264696	
110705+00000052	573..0+00072230	574..0+01807060	83..06+08554837
110706+00000052	32..00+00014610	331108+00019840	
110707+00000053	32..00+00019340	332108+00332023	
110708+00000053	573..0+00067500	574..0+01841010	83..06+08523618
110709+00000053	32..00+00010360	331108+00020539	
110710+00000054	32..00+00014480	332108+00327585	
110711+00000054	573..0+00063380	574..0+01865860	83..06+08492914
110712+00000054	32..00+00048580	331108+00220271	
110713+00000055	32..00+00049080	332108+00129736	
110714+00000055	573..0+00062890	574..0+01963520	83..06+08501967
110715+00000055	32..00+00054250	331108+00059284	
110716+00000056	32..00+00050840	332108+00065584	
110717+00000056	573..0+00066300	574..0+02068610	83..06+08501337
110718+00000056	32..00+00026010	331108+00076369	
110719+00000057	32..00+00017580	332108+00294554	
110720+00000057	573..0+00074730	574..0+02112200	83..06+08479519
110721+00000057	32..00+00010630	331108+00028702	

110722+00000058 32..00+00061310 332108+00250215
110723+00000058 573..0+00024050 574..0+02184140 83..06+08457367
110724+00000058 32..00+00022050 331108+00315879
110725+00000059 32..00+00006540 332108+00030408
110726+00000059 573..0+00039560 574..0+02212730 83..06+08485915
110727+00000059 32..00+00012450 331108+00376721
110728+00000060 32..00+00007010 332108+00005743
110729+00000060 573..0+00045000 574..0+02232190 83..06+08523012
110730+00000060 32..00+00014910 331108+00353829
110731+00000061 32..00+00020780 332108+00234891
110732+00000061 573..0+00039130 574..0+02267880 83..06+08534906
110733+00000061 32..00+00007570 331108+00009076
110734+00000062 32..00+00008850 332108+00259260
110735+00000062 573..0+00037850 574..0+02284310 83..06+08509888
110736+00000062 32..00+00005700 331108+00105583
110737+HV 156 32..00+00006030 332108+00185665
110738+HV 156 573..0+00037520 574..0+02296030 83..06+08501880

OBRA:MINEROPAR
LINHA-01
PONTA GROSSA
ARQUIVO:010.NIV

410210+?.....1

110211+PS	500	83..16+08290881	
110212+PS	500	32..00+00034070	331108+00347662
110213+00000001		32..00+00013540	332108+00030590
110214+00000001		573..0+00020530	574..0+00047610 83..06+08322588
110215+00000001		32..00+00021030	331108+00337732
110216+00000002		32..00+00011310	332108+00047046
110217+00000002		573..0+00030250	574..0+00079940 83..06+08351657
110218+00000002		32..00+00024040	331108+00338337
110219+00000003		32..00+00012010	332108+00069987
110220+00000003		573..0+00042280	574..0+00116000 83..06+08378492
110221+00000003		32..00+00019200	331108+00292601
110222+00000004		32..00+00015140	332108+00031373
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110533+00000107	32..00+00017540	331108+00016047	
110534+00000108	32..00+00032950	332108+00293103	
110535+00000108	573..0+00157500	574..0+05317330	83..06+08334323
110536+00000108	32..00+00062780	331108+00120075	
110537+00000109	32..00+00036030	332108+00158919	
110538+00000109	573..0+00184250	574..0+05416140	83..06+08330439
110539+00000109	32..00+00041130	331108+00079881	
110540+00000110	32..00+00046740	332108+00299806	
110541+00000110	573..0+00178650	574..0+05504020	83..06+08308446
110542+00000110	32..00+00060760	331108+00173537	
110543+00000111	32..00+00035200	332108+00107683	
110544+00000111	573..0+00204210	574..0+05599980	83..06+08315032
110545+00000111	32..00+00047250	331108+00179504	
110546+PS 501	32..00+00019580	332108+00120563	
110547+PS 501	573..0+00231880	574..0+05666810	83..06+08320926

24°10'40.22"S
50°13'04.68"W

24°10'14.40"S
49°19'37.99"W

RN-2017E
PS-315
PS-316
JAGUARIAÍVA
VT-91644

CASTRO
VT-03
RN-2018U

SOCAVÃO
VT-02

HV-050

HV-046

RN-36
PS-65
PS-56
PS-500
VT-91643
PONTA GROSSA
HV-156
HV-049
HV-201
BISCAIA
VT-01
PS-501



ESQUEMA DE NIVELAMENTO

PROJETO MINEROPAR

25°24'47.26"S
50°12'36.65"W

25°24'19.95"S
49°18'38.06"W

