

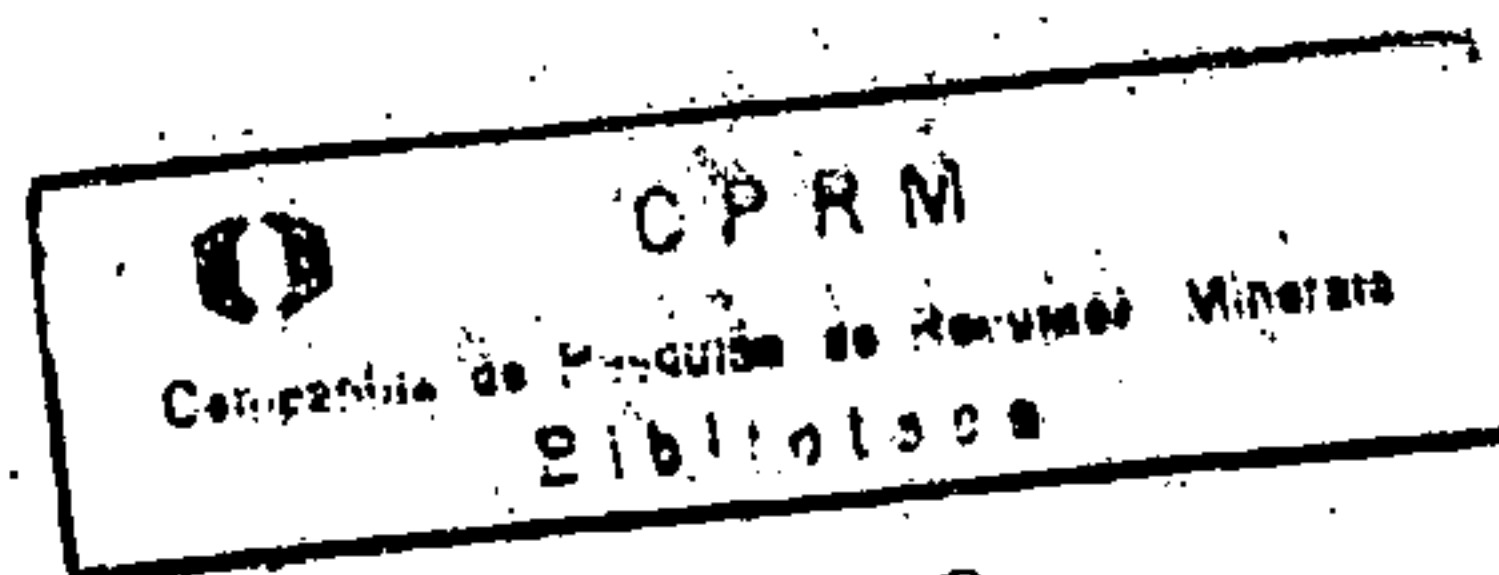
PROJETO PATOS DE MINAS

RELATÓRIO DE PROGRESSO

VOL. II

SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

OUTUBRO - 1975



REL 1018

V. 2

EX. 2

VOLUME II

BOLETINS DE ANÁLISES

PHL 036589
2004



COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: MITSUI

TIPO DE ANÁLISE: COLORIMETRIA

FURO DE SONDA: 2148-PM-001-MG

OBSERVAÇÃO: ** Dosados por via úmida.

* Fósforo soluvel dosado por colorimetria.

***Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 3,0	478/74	12,6						5,6
3,0 a 6,0	479	11,0						54,5
6,0 a 9,0	480	12,2						51,7
9,0 a 12,0	481	12,2						61,2
12,0 a 15,0	482	11,3						64,5
15,0 a 18,0	483	10,1	10,7	14,0	7,2			57,1
18,0 a 21,0	484	12,3						55,8
21,0 a 24,0	544	14,3	16,5	11,2	7,0			47,0
24,0 a 27,0	534	18,6	19,5	10,9	2,1			49,2
27,0 a 30,0	541	18,7	19,3	10,1	4,0			49,6
30,0 a 33,0	545	18,7	24,4	11,7	5,1			51,2
33,0 a 36,0	531	15,7	16,1	12,8	2,4			61,8
36,0 a 39,0	539	14,7	19,3	12,2	3,7			64,0
39,0 a 42,0	543	15,9	18,8	11,7	4,3			58,6
42,0 a 45,0	530	19,9	21,0	11,4	2,2			56,8
45,0 a 48,0	532	21,7	21,0	9,2	1,9			48,0
48,0 a 51,0	533	19,0	17,0	11,9	1,7			53,4
51,0 a 54,0	538	19,0	24,6	10,0	4,6			48,1

Cont. Furo: 2148-PM-001-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL.
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	CÍTRICA A 2%
54,0 a 57,0	546/74	16,6	20,7	9,7	4,0			54,3
57,0 a 60,0	542	15,6	18,5	11,0	4,5			51,3
60,0 a 63,0	536	17,6	19,0	13,2	1,8			52,0
63,0 a 66,0	535	14,3	16,1	11,8	1,9			54,0
66,0 a 69,0	537	13,0	9,7	15,2	2,3			47,2
69,0 a 72,0	547	3,6	8,1	2,8	4,3			64,0
72,0 a 75,0	548	2,9	10,9	1,8	4,0			54,9
75,0 a 78,0	549	2,7	10,9	1,8	3,7			57,7
78,0 a 81,0	550	2,3	12,1	2,3	3,6			56,3
81,0 a 84,0	573	2,7	12,3	2,0	3,7			41,9
84,0 a 87,0	574	2,0	12,5	1,3	4,0			43,0
87,0 a 90,0	575	1,4	10,1	1,8	3,7			49,6
90,0 a 93,0	576	1,4	13,2	1,3	4,0			69,9
93,0 a 96,0	577	1,7	10,5	1,8	4,3			41,3
96,0 a 99,0	578	1,4	11,8	2,5	4,3			49,6
99,0 a 102,0	579	1,9	10,9	1,5	4,0			53,8
102,0 a 105,0	580	2,4	10,9	1,5	4,0			53,1
105,0 a 108,0	581	2,1	10,5	1,3	1,6			53,3
108,0 a 111,0	582	2,0	12,6	1,4	3,9			50,0
111,0 a 114,0	583	2,0	11,6	1,5	3,7			50,0
114,0 a 117,0	584	2,7	11,9	1,0	3,8			57,7
117,0 a 120,0	585	2,9	13,6	1,0	3,7			45,1
120,0 a 123,0	586	2,0	12,8	0,9	3,5			57,0
123,0 a 126,0	587	2,4	11,8	0,5	3,8			53,1
126,0 a 129,0	588	1,4	10,8	1,3	4,2			49,6
129,0 a 132,0	589	1,0	10,5	1,8	4,0			71,0
132,0 a 135,0	605	1,0	12,7	1,1	4,8			71,0
135,0 a 138,0	606	1,7	14,9	1,0	4,2			41,5

Cont. Furo: 2148-PM-001-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
138,0 a 141,0	607/74	5,0	15,0	1,6	4,5			37,1
141,0 a 144,0	608	5,0	15,1	1,4	4,5			48,6
144,0 a 147,0	609	4,0	21,6	1,9	3,6			35,7
147,0 a 150,0	610	3,7	28,5	1,5	2,8			30,6
150,0 a 153,0	611	3,9	27,6	1,3	3,2			25,9
153,0 a 156,0	612	4,4	28,1	2,0	2,9			29,1
156,0 a 159,0	613	4,0	29,3	1,5	2,4			25,0
159,0 a 162,0	614	4,4	29,5	1,9	2,8			25,7
162,0 a 165,0	615	5,6	31,3	2,0	2,7			25,6
165,0 a 168,0	616	5,0	29,1	1,4	2,5			25,8
168,0 a 171,0	617	5,3	30,8	1,3	2,7			24,4
171,0 a 174,0	618	4,9	29,2	1,0	2,4			26,5
174,0 a 177,0	619	4,9	29,3	1,8	2,5			29,4
177,0 a 180,0	620	4,4	27,8	1,4	2,7			38,8
180,0 a 183,0	621	6,0	29,7	0,9	2,7			26,1
183,0 a 186,0	622	6,7	31,7	0,2	2,5			27,7
186,0 a 189,0	623	7,6	30,6	0,2	2,4			33,9
189,0 a 192,0	624	6,6	32,0	0,8	2,4			26,1
192,0 a 195,0	625	4,6	29,3	0,2	2,7			24,9
195,0 a 198,0	626	5,6	30,3	0,2	2,4			28,1
198,0 a 201,0	627	6,0	29,7	0,6	2,4			26,1
201,0 a 204,0	628	7,7	34,5	0,5	2,3			25,9
204,0 a 207,0	629	8,3	31,7	0,5	4,3			27,6
207,0 a 210,0	630	7,4	33,1	5,9	3,2			23,1
210,0 a 213,0	631	7,4	33,2	0,2	2,1			26,9
213,0 a 216,0	632	6,3	30,7	0,8	2,4			22,7
216,0 a 219,0	633	5,1	32,3	0,9	2,7			19,4

Cont. Furo: 2148-PM-001-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
219,0 a 222,0	634 /74	6,9	31,4	0,3	2,3			29,1
222,0 a 225,0	645	7,1	34,5	1,0	2,1			26,0
225,0 a 228,0	636	5,6	33,9	0,8	2,3			20,4
228,0 a 231,0	637	5,3	32,1	1,0	2,1			18,9
231,0 a 232,0	638	8,4	33,2	1,5	2,7			23,6

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: MITSUI

TIPO DE ANÁLISE: COLORIMÉTRICA

FURO DE SONDA: 2148-PM-002-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 3,0	775/74	4,0	1,7	5,8	11,8			2,7
3,0 a 6,0	776	3,1	0,4	3,8	7,8			3,5
6,0 a 9,0	777	2,3	3,1	4,3	6,4			0,0
9,0 a 12,0	778	1,6	0,8	2,8	6,1			3,2
12,0 a 15,0	779	1,9	2,4	2,8	6,1			0,0
15,0 a 18,0	780	1,6	1,0	2,3	6,1			0,0
18,0 a 21,0	781	1,6	1,1	2,3	6,1			45,2
21,0 a 24,0	782	3,1	3,5	1,3	5,6			63,5
24,0 a 27,0	783	5,3	6,1	1,8	5,3			70,3
27,0 a 30,0	784	4,4	5,0	1,5	5,6			71,1
30,0 a 33,0	785	4,6	5,6	5,6	5,1			62,4
33,0 a 36,0	786	4,1	5,9	3,9	5,1			61,9
36,0 a 39,0	787	3,4	1,1	3,0	4,8			66,8
39,0 a 42,0	788	3,0	2,2	2,9	4,9			71,3
42,0 a 45,0	789	4,4	2,8	3,0	4,5			64,5
45,0 a 48,0	790	3,6	2,0	3,3	4,5			67,9
48,0 a 51,0	791	4,0	8,3	2,0	4,3			60,7
51,0 a 54,0	792	2,7	5,3	2,5	4,5			62,9

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: MITSUI

TIPO DE ANÁLISE: COLORIMÉTRICA

FURO DE SONDA: 2148-PM-003-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria

** Dosado por via úmida

*** Absorção atômica.

PROFUNDIDADE (m)	N.º DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 2,0	943/74	5,6						0,0
2,0 a 4,0	944	10,4						1,0
4,0 a 6,0	945	3,4						6,4
6,0 a 8,0	946	2,9						11,9
8,0 a 10,0	947	9,0						65,1
10,0 a 12,0	948	12,4						64,3
12,0 a 14,0	949	12,7						64,0
14,0 a 16,0	950/74	12,9	18,2	4,1	4,5			63,3
16,0 a 18,0	951	10,6	12,6	4,8	4,8			66,2
18,0 a 20,0	952	12,0	18,8	5,6	4,3			65,1
20,0 a 22,0	953	8,6	11,2	5,1	4,3			65,0
22,0 a 24,0	954	4,0	4,9	2,3	4,8			60,7
24,0 a 26,0	955	2,7	3,5	2,5	4,8			52,6
26,0 a 28,0	956	3,0	4,2	3,9	4,3			71,3
28,0 a 30,0	957	2,9	5,6	2,3	4,8			59,8
30,0 a 32,0	958	4,6	7,0	4,3	5,1			74,9
32,0 a 34,0	959	3,6	4,2	2,5	4,5			59,8
34,0 a 36,0	960	4,1	4,6	3,3	5,4			58,5

Cont. Furo: 2148-PM-003-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
36,0 a 38,0	961/74	4,1	4,6	2,8	5,6			65,5
38,0 a 40,0	962	16,4	21,0	5,1	4,3			47,8
40,0 a 42,0	963	17,9	23,8	5,6	4,7			51,2
42,0 a 44,0	964	10,2	12,9	6,2	5,1			60,5
44,0 a 46,0	965	10,0	11,8	5,6	5,2			61,4
46,0 a 48,0	966	9,4	12,3	4,1	5,8			59,1
48,0 a 50,0	967	5,7	7,4	3,6	7,2			62,6
50,0 a 52,0	968	15,3	19,1	5,9	5,9			49,5
52,0 a 54,0	969	14,3	18,4	5,5	4,5			52,0
54,0 a 56,0	970	14,2	19,9	4,1	4,8			54,5
56,0 a 58,0	971	13,2	17,1	4,2	4,3			55,5
58,0 a 60,0	972	14,7	21,2	4,1	4,0			56,3
60,0 a 62,0	973	13,3	19,3	3,8	3,5			61,3
62,0 a 64,0	974	16,2	23,3	3,9	3,2			54,8
64,0 a 66,0	975	17,7	23,8	3,8	2,9			48,4
66,0 a 68,0	976	16,0	21,9	4,6	4,5			51,8
68,0 a 70,0	977	14,3	19,2	3,9	4,0			54,0
70,0 a 72,0	978	13,7	19,6	4,3	4,0			55,2
72,0 a 74,0	979	8,6	10,4	4,0	5,1			91,7
74,0 a 75,35	980	4,9	8,0	4,2	5,4			64,8

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-004-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	008/75	4,8	7,0	3,7	5,1			
1,0 a 2,0	009	4,4	4,6	3,3	5,1			
2,0 a 3,0	010	7,3	10,0	3,9	4,5			
3,0 a 4,0	011	3,6	5,0	3,6	5,2			
4,0 a 5,0	012	3,3	4,1	2,5	5,0			
5,0 a 6,0	013	2,8	3,4	2,5	4,0			
6,0 a 7,0	014	3,4	4,9	2,5	4,8			
7,0 a 8,0	015	4,0	5,6	2,5	5,1			
8,0 a 9,0	016	2,9	3,6	2,2	4,8			
9,0 a 10,0	017	3,0	3,4	2,6	4,5			
10,0 a 11,0	018	4,0	5,5	2,5	5,4			
11,0 a 12,0	019	10,0	11,5	3,4	5,1			
12,0 a 13,0	020	13,2	16,0	3,3	4,5			
13,0 a 14,0	021	13,5	17,7	3,8	4,5			
14,0 a 15,0	022	16,3	23,2	4,4	4,3			
15,0 a 16,0	023	14,8	20,0	5,1	4,4			
16,0 a 17,0	024	15,2	19,5	4,4	4,4			
17,0 a 18,0	025	15,2	21,0	3,9	4,3			

Cont. Furo: 2148-PM-004-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	026/75	12,3	17,0	4,3	5,1			
19,0 a 20,0	027	13,4	18,4	4,3	4,8			
20,0 a 21,0	028	12,4	18,1	4,3	4,8			
21,0 a 22,0	029	13,4	17,1	4,6	4,7			
22,0 a 23,0	030	10,5	14,9	3,8	4,8			
23,0 a 24,0	031	12,1	16,8	3,8	4,5			
24,0 a 25,0	032	13,0	17,9	3,9	4,9			
25,0 a 26,0	033	10,8	14,3	4,3	5,1			
26,0 a 27,0	034	9,1	12,5	3,2	5,4			
27,0 a 28,0	035	15,5	19,9	3,8	4,1			
28,0 a 29,0	036	15,8	19,3	4,3	4,5			
29,0 a 30,0	037	14,4	18,8	4,8	4,8			
30,0 a 31,0	038	3,9	5,3	5,3	5,1			
31,0 a 32,0	039	18,1	25,0	5,6	4,0			
32,0 a 33,0	040	14,3	17,4	5,6	5,1			
33,0 a 34,0	041	6,8	10,7	3,7	5,4			
34,0 a 35,0	042	1,9	1,6	3,3	5,4			
35,0 a 36,0	043	1,4	1,1	2,9	5,6			
36,0 a 37,0	044	1,3	1,7	1,8	5,6			
37,0 a 38,0	045	1,3	1,1	3,3	5,6			
38,0 a 39,0	046	1,5	1,9	3,3	5,6			
39,0 a 40,0	047	2,1	3,2	2,3	5,9			
40,0 a 41,0	048	2,2	2,7	3,0	6,2			
41,0 a 42,0	049	2,8	3,1	3,3	6,2			
42,0 a 43,0	050	5,4	8,1	3,9	6,1			
43,0 a 44,0	051	4,2	6,4	6,1	6,2			
44,0 a 45,0	052	4,0	7,0	7,1	6,4			

Cont. Furo: 2148-PM-004-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	053/75	5,5	8,7	7,6	6,2			
46,0 a 47,0	054	8,3	11,5	8,1	5,9			
47,0 a 48,0	055	5,2	8,0	6,4	6,4			
48,0 a 49,0	056	6,4	8,4	7,5	6,2			
49,0 a 50,0	057	7,5	10,2	5,9	5,8			
50,0 a 51,0	058	8,8	11,8	3,0	4,5			
51,0 a 52,0	059	9,6	12,1	3,2	4,5			
52,0 a 53,0	060	16,1	19,9	4,6	4,0			
53,0 a 54,0	061	12,8	17,1	3,3	4,0			
54,0 a 55,0	062	15,7	19,3	3,6	4,3			
55,0 a 56,0	063	11,5	13,4	4,1	4,5			
56,0 a 57,0	064	11,2	16,0	4,3	4,0			
57,0 a 58,0	065	7,5	11,5	4,1	4,3			
58,0 a 59,0	066	7,8	19,1	3,8	4,0			
59,0 a 60,0	067	9,5	16,3	4,5	4,5			
60,0 a 61,0	068	8,9	13,7	5,3	5,1			
61,0 a 62,0	069	9,4	10,6	4,3	4,5			
62,0 a 63,0	070	10,3	17,4	4,4	4,5			
63,0 a 64,0	071	11,3	18,8	4,7	4,9			
64,0 a 65,0	072	13,5	16,5	5,2	4,8			
65,0 a 66,0	073	18,6	23,4	5,9	4,0			
66,0 a 67,0	074	23,8	32,7	4,6	3,5			
67,0 a 68,0	075	25,2	33,4	4,1	2,9			
68,0 a 69,0	076	21,2	24,1	5,1	3,3			
69,0 a 70,0	077	11,6	9,9	3,8	4,4			
70,0 a 71,0	841	1,5						
71,0 a 72,0	842	1,2						

Cont. Puro: 2148-PM-004-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	843/75	1,2						
73,0 a 74,0	844	1,6						
74,0 a 75,0	845	1,1						
75,0 a 76,0	846	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-005-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2479/75	2,1						
1,0 a 2,0	2480	2,1						
2,0 a 3,0	2481	1,8						
3,0 a 4,0	2482	2,0						
4,0 a 5,0	2483	1,8						
5,0 a 6,0	2484	1,9						
6,0 a 7,0	2485	2,1						
7,0 a 8,0	2486	2,3						
8,0 a 9,0	2487	2,7						
9,0 a 10,0	2488	2,4						
10,0 a 11,0	2489	2,2						
11,0 a 12,0	2490	2,7						
12,0 a 13,0	2491	2,4						
13,0 a 14,0	2492	1,5						
14,0 a 15,0	2493	1,0						
15,0 a 16,0	2494	0,8						
16,0 a 17,0	2495	0,5						
17,0 a 18,0	2496	0,4						

Cont. Furo: 2148-PM-005-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2497/75	0,2						
19,0 a 20,0	2498	0,2						
20,0 a 21,0	2499	0,4						
21,0 a 22,0	2500	0,4						
22,0 a 23,0	2501	0,2						
23,0 a 24,0	2502	0,2						
24,0 a 25,0	2503	0,2						
25,0 a 26,0	2504	0,1						
26,0 a 27,0	2505	0,2						
27,0 a 28,0	2506	0,2						
28,0 a 29,0	2507	0,3						
29,0 a 30,0	2508	0,3						
30,0 a 31,0	2509	0,3						
31,0 a 32,0	2510	0,4						
32,0 a 33,0	2511	0,3						
33,0 a 34,0	2512	0,3						
34,0 a 35,0	2513	0,3						
35,0 a 36,0	2514	0,2						
36,0 a 37,0	2515	0,4						
37,0 a 38,0	2516	0,4						
38,0 a 39,0	2517	0,5						
39,0 a 40,0	2518	0,2						
40,0 a 41,0	2519	0,3						
41,0 a 42,0	2520	0,2						
42,0 a 43,0	2521	0,3						
43,0 a 44,0	2522	0,2						
44,0 a 45,0	2523	0,2						

Cont. Furo: 2148-PM-005-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	2524/75	0,2						
46,0 a 47,0	2525	0,3						
47,0 a 48,0	2526	0,2						
48,0 a 49,0	2527	0,2						
49,0 a 50,0	2528	0,2						
50,0 a 51,0	2529	0,4						
51,0 a 52,0	2530	0,3						
52,0 a 53,0	2531	0,3						
53,0 a 54,0	2532	0,4						
54,0 a 55,0	2533	0,3						
55,0 a 56,0	2534	0,3						
56,0 a 57,0	2535	0,5						
57,0 a 58,0	2536	0,3						
58,0 a 59,0	2537	0,5						
59,0 a 60,0	2538	0,3						
60,0 a 61,0	2539	0,4						
61,0 a 62,0	2540	0,5						
62,0 a 63,0	2541	0,6						
63,0 a 64,0	2542	0,4						
64,0 a 65,0	2543	0,6						
65,0 a 66,0	2544	0,3						
66,0 a 67,0	2545	0,3						
67,0 a 68,0	2546	0,4						
68,0 a 69,0	2547	0,3						
69,0 a 70,0	2548	0,4						
70,0 a 71,0	2549	0,5						
71,0 a 72,0	2550	-						
72,0 a 73,0	2551	0,3						

Cont. Furo: 2148-PM-005-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
73,0 a 74,0	2552/75	0,3						
74,0 a 75,0	2553	0,4						
75,0 a 76,0	2554	0,6						
76,0 a 77,0	2555	0,3						
77,0 a 78,0	2556	0,5						
78,0 a 79,0	2557	0,5						
79,0 a 80,0	2558	0,6						
80,0 a 81,0	2559	0,7						
81,0 a 82,0	2560	1,2						
82,0 a 83,0	2561	2,3						
83,0 a 84,0	2562	1,0						
84,0 a 85,0	2563	1,2						
85,0 a 86,0	2564	1,0						
86,0 a 87,0	2565	1,3						
87,0 a 88,0	2566	1,3						
88,0 a 89,0	2567	1,4						
89,0 a 90,0	2568	0,9						
90,0 a 91,0	2569	0,3						
91,0 a 92,0	2570	0,4						
92,0 a 93,0	2571	0,2						
93,0 a 94,0	2572	0,2						
94,0 a 95,0	2573	0,2						
95,0 a 96,0	2574	0,2						
96,0 a 97,0	2575	0,3						
97,0 a 98,0	2576	0,2						
98,0 a 99,0	2577	0,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-006-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0								
1,0 a 2,0								
2,0 a 3,0	086/75	5,9	0,7	7,0	7,5			
3,0 a 4,0	087	6,0	0,6	5,6	9,0			
4,0 a 5,0	088	4,2						
5,0 a 6,0	089	5,7						
6,0 a 7,0	090	5,7						
7,0 a 8,0	091	12,0	10,2	4,8	7,5			
8,0 a 9,0	092	11,6	12,7	4,2	4,5			
9,0 a 10,0	093	9,1						
10,0 a 11,0	094	10,5	10,9	4,8	5,1			
11,0 a 12,0	095	14,6	18,1	4,8	4,5			
12,0 a 13,0	096	14,4	15,1	5,3	3,4			
13,0 a 14,0	097	12,8	14,6	5,4	4,8			
14,0 a 15,0	098	14,9	18,2	6,2	4,8			
15,0 a 16,0	099	10,2	12,9	4,8	5,9			
16,0 a 17,0	100	10,1	12,5	5,6	5,9			
17,0 a 18,0	101	9,7	12,6	5,2	5,6			

Cont. Furo: 2148-PM-006-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	102/75	10,1	12,6	5,0	5,2			
19,0 a 20,0	103	9,5	12,1	4,6	4,8			
20,0 a 21,0	104	10,8	11,1	5,1	4,0			
21,0 a 22,0	105	9,5	12,5	5,3	4,5			
22,0 a 23,0	106	9,3						
23,0 a 24,0	107	7,6						
24,0 a 25,0	108	8,5						
25,0 a 26,0	109	9,2						
26,0 a 27,0	110	12,3	12,6	3,6	4,5			
27,0 a 28,0	111	11,3	14,9	4,1	4,8			
28,0 a 29,0	112	12,3	13,7	4,3	3,9			
29,0 a 30,0	113	10,9	13,7	3,8	4,0			
30,0 a 31,0	114	9,3						
31,0 a 32,0	115	6,4						
32,0 a 33,0	116	8,0						
33,0 a 34,0	117	7,2						
34,0 a 35,0	118	6,1						
35,0 a 36,0	119	4,4						
36,0 a 37,0	120	5,0						
37,0 a 38,0	121	6,3						
38,0 a 39,0	122	7,2						
39,0 a 40,0	123	7,2						
40,0 a 41,0	124	5,0						
41,0 a 42,0	125	3,2						
42,0 a 43,0	126	2,5						
43,0 a 44,0	127	3,4						
44,0 a 45,0	128	3,4						

Cont. Furo: 2148-PM-006-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	129/75	3,1						
46,0 a 47,0	130	3,4						
47,0 a 48,0	131	5,1						
48,0 a 49,0	132	5,4						
49,0 a 50,0	133	4,9						
50,0 a 51,0	134	5,7						
51,0 a 52,0	135	5,9						
52,0 a 53,0	136	4,6						
53,0 a 54,0	137	4,8						
54,0 a 55,0	138	6,3						
55,0 a 56,0	139	5,0						
56,0 a 57,0	140	4,2						
57,0 a 58,0	141	6,2						
58,0 a 59,0	142	6,1						
59,0 a 60,0	143	8,9						
60,0 a 61,0	144	10,4	12,3	4,3	4,8			
61,0 a 62,0	145	11,1	11,5	4,3	4,8			
62,0 a 63,0	146	7,4						
63,0 a 64,0	147	8,1						
64,0 a 65,0	148	8,9						
65,0 a 66,0	149	8,0						
66,0 a 67,0	150	3,1						
67,0 a 68,0	151	3,5						
68,0 a 69,0	152	3,4						
69,0 a 70,0	153	3,2						
70,0 a 71,0	154	3,4						
71,0 a 72,0	155	2,7						
72,0 a 73,0	156	1,6						

Cont. Furo: 2148-PM-006-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
73,0 a 74,0	157/75	1,3						
74,0 a 75,0	158	<0,5						
75,0 a 76,0	159	<0,5						
76,0 a 77,0	160	<0,5						
77,0 a 78,0	161	1,4						
78,0 a 79,0	162	0,5						
79,0 a 80,0	163	0,5						
80,0 a 81,0	164	0,5						
81,0 a 82,0	165	<0,5						
82,0 a 83,0	166	<0,5						
83,0 a 84,0	167	<0,5						
84,0 a 85,0	168	0,5						
85,0 a 86,0	169	1,3						
86,0 a 87,0	170	7,1						
87,0 a 88,0	171	5,9						
88,0 a 89,0	172	5,9						
89,0 a 90,0	173	6,3						
90,0 a 91,0	174	8,0						
91,0 a 92,0	175	6,0						
92,0 a 93,0	176	5,3						
93,0 a 94,0	177	4,6						
94,0 a 95,0	178	5,6						
95,0 a 96,0	179	6,2						
96,0 a 97,0	180	9,8	11,5	3,1	3,7			
97,0 a 98,0	181	2,3						
98,0 a 99,0	182	1,3						
99,0 a 100,0	183	1,2						
100,0 a 101,0	184	1,5						

Cont. Furo: 2148-PM-006-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
101,0 a 102,0	185/75	1,3						
102,0 a 103,0	186	1,6						
103,0 a 104,0	187	1,2						
104,0 a 105,0	188	1,2						
105,0 a 106,0	189	0,9						
106,0 a 107,0	190	1,2						
107,0 a 108,0	191	1,0						
108,0 a 109,0	192	1,0						
109,0 a 110,0	193	1,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-007-MG

OBSERVAÇÃO: ** Dosados por via úmida.

* Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	** CaO	** Al ₂ O ₃	** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	194/75	15,4	<0,1	14,5	6,2			62,2
1,0 a 2,0	195	15,7	3,6	11,2	8,0			26,5
2,0 a 3,0	196	22,1	20,0	7,6	4,8			58,9
3,0 a 4,0	197	22,0	25,5	7,4	3,5			62,4
4,0 a 5,0	198	22,6	29,4	6,1	3,1			35,5
5,0 a 6,0	199	19,3	25,1	5,1	3,3			61,4
6,0 a 7,0	200	19,6	25,8	4,6	3,2			52,2
7,0 a 8,0	201	19,5	25,4	5,6	3,3			56,4
8,0 a 9,0	202	21,5	27,8	6,1	3,3			58,3
9,0 a 10,0	203	22,5	28,6	4,1	2,7			50,1
10,0 a 11,0	204	21,3	28,9	5,0	3,1			61,4
11,0 a 12,0	205	20,4	28,3	3,8	2,9			56,6
12,0 a 13,0	206	18,6	24,9	6,0	3,5			61,4
13,0 a 14,0	207	17,0	21,9	5,3	5,1			68,0
14,0 a 15,0	208	19,9	25,7	5,9	4,3			56,5
15,0 a 16,0	209	17,2	23,6	4,8	3,7			55,2
16,0 a 17,0	210	17,1	21,0	5,0	3,2			53,6
17,0 a 18,0	211	18,0	22,7	4,8	4,3			50,5

Cont. Furo: 2148-PM-007-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	212/75	17,4	21,2	4,8	4,1			62,6
19,0 a 20,0	213	17,5	22,7	4,7	4,3			61,3
20,0 a 21,0	214	16,9	23,0	4,4	3,5			
21,0 a 22,0	215	13,5	19,1	4,3	4,3			
22,0 a 23,0	216	14,9	20,0	4,5	5,9			
23,0 a 24,0	217	13,8	19,9	5,6	4,5			
24,0 a 25,0	218	15,1	21,7	6,1	3,7			
25,0 a 26,0	219	18,6	25,5	5,9	3,7			
26,0 a 27,0	220	16,9	24,1	6,1	3,5			
27,0 a 28,0	221	18,1	26,0	5,9	3,9			
28,0 a 29,0	222	18,8	27,1	6,4	3,5			
29,0 a 30,0	223	21,8	31,1	5,3	2,9			
30,0 a 31,0	224	19,2	26,1	6,1	2,9			
31,0 a 32,0	225	17,8	25,8	6,4	3,3			
32,0 a 33,0	226	16,3	22,0	6,0	1,7			
33,0 a 34,0	227	20,3	33,4	3,6	3,2			
34,0 a 35,0	228	19,8	29,4	4,3	3,2			
35,0 a 36,0	229	18,4	23,4	4,6	3,2			
36,0 a 37,0	230	21,9	31,9	4,0	3,2			
37,0 a 38,0	231	19,6	25,5	3,8	3,5			
38,0 a 39,0	232	18,4	25,8	3,9	3,2			
39,0 a 40,0	233	16,3	23,3	4,3	4,0			
40,0 a 41,0	234	18,0	23,3	4,6	4,0			
41,0 a 42,0	235	19,1	25,9	4,3	3,5			
42,0 a 43,0	236	15,6	21,3	6,9	3,7			
43,0 a 44,0	237	17,1	22,2	6,1	3,5			
44,0 a 45,0	238	16,6	19,3	6,6	4,0			
45,0 a 46,0	239	14,2	18,5	5,6	3,7			
46,0 a 47,0	240	16,3	20,8	5,3	4,0			

Cont. Furo: 2148-PM-007-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
47,0 a 48,0	241/75	14,4	19,3	5,9	4,0			
48,0 a 49,0	242	13,0	19,1	6,5	4,5			
49,0 a 50,0	243	14,9	20,5	6,4	4,0			
50,0 a 51,0	244	15,8	22,2	6,9	4,0			
51,0 a 52,0	245	13,2	16,8	6,8	4,2			
52,0 a 53,0	246	15,1	20,2	6,9	4,3			
53,0 a 54,0	247	16,4	21,6	5,6	4,3			
54,0 a 55,0	248	13,1	17,7	6,1	4,3			
55,0 a 56,0	249	13,6	18,5	5,3	4,3			
56,0 a 57,0	250	11,7	15,7	6,1	4,8			
57,0 a 58,0	251	12,9	17,7	5,3	4,9			
58,0 a 59,0	252	13,0	18,5	5,7	4,5			
59,0 a 60,0	253	9,8	13,2	6,6	4,5			
60,0 a 61,0	254	8,6						
61,0 a 62,0	255	5,2						
62,0 a 63,0	256	7,4						
63,0 a 64,0	257	4,8						
64,0 a 65,0	258	3,0						
65,0 a 66,0	259	4,5						
66,0 a 67,0	260	4,0						
67,0 a 68,0	411	3,9						
68,0 a 69,0	412	3,6						
69,0 a 70,0	413	3,1						
70,0 a 71,0	414	4,0						
71,0 a 72,0	415	6,8						
72,0 a 73,0	416	3,4						
73,0 a 74,0	417	3,3						
74,0 a 75,0	418	6,3						

Cont. Furo: 2148-PM-007-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
75,0 a 76,0	419/75	4,6						
76,0 a 77,0	420	2,7						
77,0 a 78,0	421	3,7						
78,0 a 79,0	422	4,6						
79,0 a 80,0	423	5,2						
80,0 a 81,0	424	5,0						
81,0 a 82,0	425	2,8						
82,0 a 83,0	426	3,2						
83,0 a 84,0	427	5,1						
84,0 a 85,0	428	5,6						
85,0 a 86,0	429	3,5						
86,0 a 87,0	430	2,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO FATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-008-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	261/75	11,9	2,7	12,2	5,9			9,3
1,0 a 2,0	262	4,0						11,5
2,0 a 3,0	263	3,2						2,9
3,0 a 4,0	264	9,1						42,3
4,0 a 5,0	265	14,5	15,7	7,9	5,6			62,6
5,0 a 6,0	266	17,0	16,0	6,1	4,5			58,1
6,0 a 7,0	267	10,8	11,8	5,3	5,4			63,2
7,0 a 8,0	268	10,1	11,8	4,1	4,5			65,6
8,0 a 9,0	269	9,7	12,5	4,3	4,5			75,4
9,0 a 10,0	270	7,4						80,0
10,0 a 11,0	271	9,3	10,5	5,1	4,5			71,0
11,0 a 12,0	272	12,5	13,7	5,9	4,5			78,2
12,0 a 13,0	273	13,1	14,6	5,6	4,3			63,1
13,0 a 14,0	274	9,1						73,1
14,0 a 15,0	275	8,0						78,2
15,0 a 16,0	276	12,1	12,8	6,1	4,5			72,7
16,0 a 17,0	277	11,3	12,8	5,5	4,5			58,6
17,0 a 18,0	278	11,8	13,7	5,9	5,1			70,1

Cont. Furo: 2148-PM-008-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	279/75	7,9						78,8
19,0 a 20,0	280	6,6						66,5
20,0 a 21,0	281	10,2	10,5	3,6	4,8			
21,0 a 22,0	282	16,6	15,7	5,5	4,7			
22,0 a 23,0	283	16,7	17,2	5,3	4,9			
23,0 a 24,0	284	14,7	16,8	5,1	4,9			
24,0 a 25,0	285	13,4	15,7	4,3	4,8			
25,0 a 26,0	286	12,2	13,9	4,6	5,1			
26,0 a 27,0	287	16,7	17,5	4,3	4,5			
27,0 a 28,0	288	17,9	20,0	5,6	4,3			
28,0 a 29,0	289	16,6	20,0	6,1	4,9			
29,0 a 30,0	290	16,8	19,8	4,8	4,0			
30,0 a 31,0	291	13,0	16,8	4,2	4,3			
31,0 a 32,0	292	16,1	19,6	4,7	4,5			
32,0 a 33,0	293	15,7	20,9	5,0	4,3			
33,0 a 34,0	294	12,9	17,8	3,4	4,5			
34,0 a 35,0	295	14,8	19,1	5,2	4,0			
35,0 a 36,0	296	20,8	27,2	5,1	3,5			
36,0 a 37,0	297	17,0	22,0	4,1	4,3			
37,0 a 38,0	298	15,9	19,9	4,6	4,8			
38,0 a 39,0	299	16,0	19,7	5,1	4,0			
39,0 a 40,0	300	19,5	24,3	5,7	3,7			
40,0 a 41,0	301	16,7	18,5	5,1	3,7			
41,0 a 42,0	302	17,4	19,9	5,1	3,5			
42,0 a 43,0	303	18,6	21,9	5,7	3,7			
43,0 a 44,0	304	15,7	20,0	5,9	3,5			
44,0 a 45,0	305	15,4	17,9	4,3	4,0			
45,0 a 46,0	306	17,9	21,0	5,5	3,7			

Cont. Furo: 2148-PM-008-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	307/75	14,7	19,1	5,6	3,5			
47,0 a 48,0	308	19,0	24,4	6,4	2,9			
48,0 a 49,0	309	19,2	25,0	5,2	3,3			
49,0 a 50,0	310	17,2	19,2	4,8	4,0			
50,0 a 51,0	311	13,9	14,9	4,8	4,5			
51,0 a 52,0	312	11,7	17,4	4,5	3,7			
52,0 a 53,0	313	17,5	21,0	5,9	4,3			
53,0 a 54,0	314	17,2	21,9	5,3	4,2			
54,0 a 55,0	315	13,5	19,9	3,7	3,9			
55,0 a 56,0	316	13,3	18,2	5,5	4,0			
56,0 a 57,0	317	14,3	19,6	5,5	4,0			
57,0 a 58,0	318	15,5	19,9	5,5	4,0			
58,0 a 59,0	319	12,3	16,0	4,3	4,3			
59,0 a 60,0	320	12,5	16,4	4,6	4,0			
60,0 a 61,0	321	16,3	19,5	3,8	4,0			
61,0 a 62,0	322	15,1	18,9	3,8	4,3			
62,0 a 63,0	323	10,9	14,0	3,6	4,3			
63,0 a 64,0	324	6,0						
64,0 a 65,0	847	2,5						
65,0 a 66,0	848	2,2						
66,0 a 67,0	849	4,2						
67,0 a 68,0	850	4,1						
68,0 a 69,0	851	3,4						
69,0 a 70,0	852	2,5						
70,0 a 71,0	853	2,5						
71,0 a 72,0	854	3,0						
72,0 a 73,0	855	2,5						
73,0 a 74,0	856	3,6						

Cont. Furo: 2148-PM-008-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
74,0 a 75,0	857/75	2,7						
75,0 a 76,0	858	1,9						
76,0 a 77,0	859	1,6						
77,0 a 78,0	860	2,3						
78,0 a 79,0	861	2,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-009-MG

OBSERVAÇÃO: ** Dosado por via úmida.

* Fósforo soluvel dosado por colorimetria.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	431/75	17,2	7,6	10,3	5,1			48,7
1,0 a 2,0	432	16,2	12,5	4,6	4,3			69,9
2,0 a 3,0	433	16,7	18,2	4,5	4,0			72,0
3,0 a 4,0	434	12,8	13,6	5,7	3,2			71,1
4,0 a 5,0	435	11,6	13,4	3,4	3,3			77,9
5,0 a 6,0	436	11,7	13,5	3,6	4,0			54,7
6,0 a 7,0	437	12,3	14,2	3,8	3,5			71,8
7,0 a 8,0	438	13,2	12,9	3,3	3,7			73,1
8,0 a 9,0	439	12,9	15,3	3,7	3,7			76,8
9,0 a 10,0	440	12,0	14,1	3,2	3,5			75,8
10,0 a 11,0	441	14,3	17,8	4,8	4,0			77,9
11,0 a 12,0	442	17,0	19,9	4,8	3,6			70,4
12,0 a 13,0	443	17,6	23,0	4,8	4,1			67,2
13,0 a 14,0	444	18,9	23,8	4,1	3,5			66,2
14,0 a 15,0	445	14,3	18,6	5,7	4,9			66,8
15,0 a 16,0	446	13,6	18,9	5,3	4,5			70,0
16,0 a 17,0	447	13,7	19,1	6,1	4,3			81,0

Cont. Furo: 2148-PM-009-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	448/75	16,5	21,9	4,3	3,7			66,4
18,0 a 19,0	449	14,1	17,4	5,3	4,0			63,7
19,0 a 20,0	450	13,0	16,8	5,3	4,3			73,3
20,0 a 21,0	451	12,7	15,2	4,1	4,0			
21,0 a 22,0	452	9,3	13,5	3,8	4,5			
22,0 a 23,0	453	7,8						
23,0 a 24,0	454	10,9	13,5	4,3	3,7			
24,0 a 25,0	455	7,1						
25,0 a 26,0	456	4,5						
26,0 a 27,0	457	6,7						
27,0 a 28,0	458	7,2						
28,0 a 29,0	459	6,3						
29,0 a 30,0	460	7,9						
30,0 a 31,0	461	4,0						
31,0 a 32,0	462	6,0						
32,0 a 33,0	463	7,3						
33,0 a 34,0	464	5,1						
34,0 a 35,0	465	6,0						
35,0 a 36,0	466	5,2						
36,0 a 37,0	467	5,8						
37,0 a 38,0	468	6,2						
38,0 a 39,0	469	4,1						
39,0 a 40,0	470	3,5						
40,0 a 41,0	471	6,9						
41,0 a 42,0	472	5,7						
42,0 a 43,0	473	7,6						
43,0 a 44,0	474	6,5						
44,0 a 45,0	475	4,7						

Cont. Furo: 2148-PM-009-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	476/75	5,4						
46,0 a 47,0	477	4,7						
47,0 a 48,0	478	4,2						
48,0 a 49,0	479	2,5						
49,0 a 50,0	480	3,1						
50,0 a 51,0	481	3,3						
51,0 a 52,0	482	3,1						
52,0 a 53,0	483	4,9						
53,0 a 54,0	484	3,7						
54,0 a 55,0	485	4,6						
55,0 a 56,0	486	6,2						
56,0 a 57,0	487	8,1						
57,0 a 58,0	488	5,8						
58,0 a 59,0	489	5,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-010-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	490/75	17,3	6,9	6,6	5,6			
1,0 a 2,0	491	11,6	11,8	5,2	5,1			
2,0 a 3,0	492	13,8	12,6	7,1	4,8			
3,0 a 4,0	493	11,2	10,9	5,8	5,1			
4,0 a 5,0	494	12,7	9,2	6,4	5,4			
5,0 a 6,0	495	8,8						
6,0 a 7,0	496	6,0						
7,0 a 8,0	497	6,0						
8,0 a 9,0	498	6,6						
9,0 a 10,0	499	10,4	5,5	7,9	5,4			
10,0 a 11,0	500	5,8						
11,0 a 12,0	501	6,1						
12,0 a 13,0	502	3,7						
13,0 a 14,0	503	4,6						
14,0 a 15,0	504	3,5						
15,0 a 16,0	505	3,1						
16,0 a 17,0	506	3,8						

Cont. Furo: 2148-PM-10-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	507/75	2,8						
18,0 a 19,0	508	3,2						
19,0 a 20,0	509	3,3						
20,0 a 21,0	510	4,5						
21,0 a 22,0	511	3,5						
22,0 a 23,0	512	2,3						
23,0 a 24,0	513	3,3						
24,0 a 25,0	514	4,9						
25,0 a 26,0	515	5,3						
26,0 a 27,0	516	5,4						
27,0 a 28,0	517	7,8						
28,0 a 29,0	518	14,3	16,3	4,6	4,9			
29,0 a 30,0	519	11,5	13,0	4,6	4,8			
30,0 a 31,0	520	14,0	15,7	5,1	5,1			
31,0 a 32,0	521	11,5	14,0	5,1	5,2			
32,0 a 33,0	522	14,0	15,7	4,8	4,9			
33,0 a 34,0	523	13,3	16,8	5,6	4,7			
34,0 a 35,0	524	14,2	18,6	5,7	4,9			
35,0 a 36,0	525	10,7	13,6	5,3	5,1			
36,0 a 37,0	526	9,6	11,8	5,7	4,4			
37,0 a 38,0	527	6,5						
38,0 a 39,0	528	7,6						
39,0 a 40,0	529	13,0	14,6	5,1	4,8			
40,0 a 41,0	530	8,9						
41,0 a 42,0	531	9,8	11,5	6,2	5,3			
42,0 a 43,0	532	10,2	14,3	4,8	4,8			
43,0 a 44,0	533	12,0	15,1	5,3	4,8			

Cont. Furo: 2148-PM-010-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	534/75	12,5	15,1	5,3	5,1			
45,0 a 46,0	535	13,7	16,4	5,0	4,8			
46,0 a 47,0	536	18,1	23,1	5,2	5,4			
47,0 a 48,0	537	17,5	21,0	5,6	4,8			
48,0 a 49,0	538	15,2	18,5	5,5	4,5			
49,0 a 50,0	539	13,0	16,8	4,8	4,8			
50,0 a 51,0	540	17,0	22,1	5,4	4,4			
51,0 a 52,0	541	14,6	19,3	5,1	4,3			
52,0 a 54,0	542	14,1	20,5	5,3	4,0			
53,0 a 54,0	543	12,6	16,5	5,2	4,8			
54,0 a 55,0	544	15,7	20,2	5,6	4,5			
55,0 a 56,0	545	17,7	23,0	5,3	4,7			
56,0 a 57,0	546	15,9	21,2	5,9	4,3			
57,0 a 58,0	547	17,3	20,5	5,6	4,3			
58,0 a 59,0	548	13,5	16,8	5,1	4,3			
59,0 a 60,0	549	12,5	15,4	6,1	4,8			
60,0 a 61,0	550	13,6	10,0	5,1	4,3			
61,0 a 62,0	551	15,9	19,1	5,8	4,3			
62,0 a 63,0	552	16,6	20,2	5,0	4,0			
63,0 a 64,0	553	15,9	19,2	4,3	3,5			
64,0 a 65,0	554	17,2	19,8	5,2	3,5			
65,0 a 66,0	555	16,9	20,0	5,5	3,7			
66,0 a 67,0	556	18,5	20,6	5,0	4,0			
67,0 a 68,0	557	12,6	14,0	4,2	4,5			
68,0 a 69,0	558	12,4	13,0	6,5	4,8			
69,0 a 70,0	559	12,7	14,7	6,2	4,3			
70,0 a 71,0	560	17,9	19,8	2,5	4,0			

Cont. Furo: 2148-PM-010-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
71,0 a 72,0	561/75	19,1	23,4	5,7	4,3			
72,0 a 73,0	562	15,4	19,5	6,4	4,6			
73,0 a 74,0	563	14,2	18,4	6,1	4,8			
74,0 a 75,0	564	12,5						
75,0 a 76,0	565	12,9	15,7	6,6	4,8			
76,0 a 77,0	566	10,8	16,7	7,5	4,6			
77,0 a 78,0	567	12,1	14,0	7,1	4,9			
78,0 a 79,0	568	10,1	26,4	1,8	4,0			
79,0 a 80,0	569	9,0	35,6	<0,1	2,7			
80,0 a 81,0	570	12,8	36,7	1,3	2,4			
81,0 a 82,0	571	9,0						
82,0 a 83,0	572	8,8						
83,0 a 84,0	573	4,8						
84,0 a 85,0	574	4,2						
85,0 a 86,0	575	2,9						
86,0 a 87,0	576	3,5						
87,0 a 88,0	577	3,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-011-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	325/75	6,7						
1,0 a 2,0	326	7,4						
2,0 a 3,0	327	4,7						
3,0 a 4,0	328	2,9						
4,0 a 5,0	329	8,1						
5,0 a 6,0	330	13,5	14,7	3,9	4,1			
6,0 a 7,0	331	16,4	16,8	5,0	4,5			
7,0 a 8,0	332	17,7	21,9	4,7	3,7			
8,0 a 9,0	333	15,6	19,9	4,1	4,0			
9,0 a 10,0	334	6,4						
10,0 a 11,0	335	12,5	13,5	4,7	4,3			
11,0 a 12,0	336	9,6	11,1	4,2	4,6			
12,0 a 13,0	337	6,8						
13,0 a 14,0	338	3,6						
14,0 a 15,0	339	9,3	10,1	4,3	5,4			
15,0 a 16,0	340	7,6						
16,0 a 17,0	341	6,4						

Cont. Furo: 2148-PM-011-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	342/75	4,8						
18,0 a 19,0	343	4,1						
19,0 a 20,0	344	2,2						
20,0 a 21,0	345	5,3						
21,0 a 22,0	346	6,6						
22,0 a 23,0	347	6,7						
23,0 a 24,0	348	6,2						
24,0 a 25,0	349	6,1						
25,0 a 26,0	350	6,6						
26,0 a 27,0	351	6,3						
27,0 a 28,0	352	9,6	11,2	5,9	4,8			
28,0 a 29,0	353	7,2						
29,0 a 30,0	354	3,1						
30,0 a 31,0	355	2,7						
31,0 a 32,0	356	2,1						
32,0 a 33,0	357	1,4						
33,0 a 34,0	358	2,2						
34,0 a 35,0	359	1,6						
35,0 a 36,0	360	1,5						
36,0 a 37,0	361	3,3						
37,0 a 38,0	362	2,8						
38,0 a 39,0	363	1,7						
39,0 a 40,0	364	2,6						
40,0 a 41,0	365	1,9						
41,0 a 42,0	366	3,4						
42,0 a 43,0	367	2,2						
43,0 a 44,0	368	2,1						

Cont. Furo: 2148-PM-011-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	369/75	2,4						
45,0 a 46,0	370	3,3						
46,0 a 47,0	371	1,6						
47,0 a 48,0	372	1,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-012-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 0,1	373/75	9,8	12,5	4,8	4,5			
1,0 a 2,0	374	9,5	14,4	6,0	4,8			
2,0 a 3,0	375	9,2						
3,0 a 4,0	376	9,0						
4,0 a 5,0	377	10,5	12,3	5,0	4,5			
5,0 a 6,0	378	20,0	23,1	4,9	4,5			
6,0 a 7,0	379	6,1						
7,0 a 8,0	380	9,8	12,9	4,6	4,5			
8,0 a 9,0	381	7,0						
9,0 a 10,0	382	2,9						
10,0 a 11,0	383	2,4						
11,0 a 12,0	384	3,0						
12,0 a 13,0	385	5,0						
13,0 a 14,0	386	8,4						
14,0 a 15,0	387	10,0	14,2	5,0	4,5			
15,0 a 16,0	388	11,1	15,7	4,1	4,3			
16,0 a 17,0	389	8,5						

Cont. Furo: 2148-PM-012-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	390/75	7,8						
18,0 a 19,0	391	6,5						
19,0 a 20,0	392	5,1						
20,0 a 21,0	393	3,2						
21,0 a 22,0	394	3,6						
22,0 a 23,0	395	2,7						
23,0 a 24,0	396	3,8						
24,0 a 25,0	397	4,1						
25,0 a 26,0	398	3,7						
26,0 a 27,0	399	3,0						
27,0 a 28,0	400	3,2						
28,0 a 29,0	401	1,6						
29,0 a 30,0	402	9,6	20,4	3,1	3,7			
30,0 a 31,0	403	6,1						
31,0 a 32,0	404	1,6						
32,0 a 33,0	405	1,8						
33,0 a 34,0	406	3,2						
34,0 a 35,0	407	1,7						
35,0 a 36,0	408	2,5						
36,0 a 37,0	409	4,2						
37,0 a 38,0	410	4,0						
38,0 a 39,0	862	3,5						
39,0 a 40,0	863	1,7						
40,0 a 41,0	864	1,0						
41,0 a 42,0	865	3,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-013-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	578/75	3,9						
1,0 a 2,0	579	2,1						
2,0 a 3,0	580	3,0						
3,0 a 4,0	581	2,5						
4,0 a 5,0	582	5,4						
5,0 a 6,0	583	3,5						
6,0 a 7,0	584	6,8						
7,0 a 8,0	585	5,5						
8,0 a 9,0	586	5,5						
9,0 a 10,0	587	3,8						
10,0 a 11,0	588	3,0						
11,0 a 12,0	589	4,7						
12,0 a 13,0	590	1,6						
13,0 a 14,0	591	2,7						
14,0 a 15,0	592	1,6						
15,0 a 16,0	593	5,3						
16,0 a 17,0	594	1,8						

Cont. Furo: 2148-PM-013-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	595/75	2,5						
18,0 a 19,0	596	2,0						
19,0 a 20,0	597	5,0						
20,0 a 21,0	598	3,3						
21,0 a 22,0	599	3,1						
22,0 a 23,0	600	3,2						
23,0 a 24,0	601	5,0						
24,0 a 25,0	602	2,4						
25,0 a 26,0	603	2,8						
26,0 a 27,0	604	2,6						
27,0 a 28,0	605	3,6						
28,0 a 29,0	606	2,4						
29,0 a 30,0	607	3,4						
30,0 a 31,0	608	3,5						
31,0 a 32,0	609	5,1						
32,0 a 33,0	610	6,3						
33,0 a 34,0	611	5,5						
34,0 a 35,0	612	2,5						
35,0 a 36,0	613	7,4						
36,0 a 37,0	614	4,9						
37,0 a 38,0	615	6,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTOGRÁFICA

FURO DE SONDA: 2148-PM-014-MG

OBSERVAÇÃO:** Dosado por via úmida.

* Fósforo solúvel dosado por colorimetria.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	866/75	17,1	7,7	7,4	5,6			52,12
1,0 a 2,0	867	10,6	10,5	4,2	3,5			56,03
2,0 a 3,0	868	10,6	10,6	4,2	4,8			67,58
3,0 a 4,0	869	14,9	13,5	5,9	4,5			56,87
4,0 a 5,0	870	14,4	15,7	5,5	4,3			61,37
5,0 a 6,0	871	14,3	14,3	5,1	4,8			58,57
6,0 a 7,0	872	12,5	14,4	4,8	4,0			58,27
7,0 a 8,0	873	14,5	13,2	5,7	4,0			52,83
8,0 a 9,0	874	14,4	17,2	4,5	3,7			52,52
9,0 a 10,0	875	13,9	16,5	4,8	5,1			55,65
10,0 a 11,0	876	16,3	16,8	4,6	4,0			57,48
11,0 a 12,0	877	16,0	16,8	5,0	3,9			57,58
12,0 a 13,0	878	18,3	22,0	4,8	3,6			52,87
13,0 a 14,0	879	15,6	18,6	4,5	3,9			58,91
14,0 a 15,0	880	14,1	16,3	4,2	4,3			66,28
15,0 a 16,0	881	19,4	23,3	5,6	3,7			62,77
16,0 a 17,0	882	20,4	22,4	4,6	3,5			56,94
17,0 a 18,0	883	19,1	23,3	6,9	3,7			62,51

Cont. Furo: 2148-PM-014-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	884/75	19,4	24,7	5,1	4,0			54,38
19,0 a 20,0	885	17,7	22,2	4,8	4,3			61,99
20,0 a 21,0	886	17,3	22,2	7,1	4,0			59,33
21,0 a 22,0	887	15,6	21,0	6,6	4,0			63,05
22,0 a 23,0	888	17,0	21,6	7,1	3,7			61,83
23,0 a 24,0	889	18,9	24,3	5,7	3,7			62,98
24,0 a 25,0	890	19,5	25,0	5,1	3,7			61,65
25,0 a 26,0	891	12,3	17,8	4,3	4,3			65,44
26,0 a 27,0	892	16,0	24,1	5,1	4,0			67,94
27,0 a 28,0	893	14,8	19,9	5,3	4,1			66,87
28,0 a 29,0	894	13,8	19,5	4,5	4,1			72,18
29,0 a 30,0	895	14,1	18,5	3,6	4,3			68,64
30,0 a 31,0	896	15,5	19,6	4,3	4,0			61,37
31,0 a 32,0	897	16,8	21,9	5,3	3,7			68,22
32,0 a 33,0	898	14,5	18,5	4,2	4,0			69,33
33,0 a 34,0	899	13,4	18,5	4,8	3,8			68,92
34,0 a 35,0	900	12,1	15,8	4,3	3,7			74,62
35,0 a 36,0	901	13,0	17,1	4,8	3,7			80,53
36,0 a 37,0	902	16,0	20,0	4,8	3,5			71,43
37,0 a 38,0	903	13,8	16,5	4,1	3,7			70,97
38,0 a 39,0	904	10,9	16,6	5,3	4,3			76,88
39,0 a 40,0	905	13,5	16,5	7,9	4,3			72,73
40,0 a 41,0	906	14,3	14,3	7,9	4,8			59,65
41,0 a 42,0	907	15,6	17,9	8,3	4,0			66,87
42,0 a 43,0	908	13,5	15,4	7,0	6,3			66,20
43,0 a 44,0	909	6,7						76,43
44,0 a 45,0	910	6,0						74,33

Cont. Furo: 2148-PM-014-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	911/75	4,8						81,11
46,0 a 47,0	912	4,9						68,42
47,0 a 48,0	913	4,0						73,48
48,0 a 49,0	914	2,7						75,25
49,0 a 50,0	915	3,7						80,11
50,0 a 51,0	916	3,4						73,28
51,0 a 52,0	917	4,6						83,64
52,0 a 53,0	918	2,4						77,66
53,0 a 54,0	919	2,3						74,47
54,0 a 55,0	920	3,9						71,20
55,0 a 56,0	921	5,8						61,60
56,0 a 57,0	922	6,4						67,85
57,0 a 58,0	923	6,1						67,85
58,0 a 59,0	924	6,9						60,99
59,0 a 60,0	925	7,1						66,49
60,0 a 61,0	926	7,3						87,58
61,0 a 62,0	927	7,1						69,78
62,0 a 63,0	928	6,8						74,52
63,0 a 64,0	929	12,1	15,1	6,9	5,2			75,84
64,0 a 65,0	930	11,3	13,5	6,6	4,8			77,17
65,0 a 66,0	931	9,3	11,5	6,6	4,8			71,47
66,0 a 67,0	932	11,7	12,9	6,9	4,7			72,92
67,0 a 68,0	933	13,3	15,4	4,6	4,0			48,04
68,0 a 69,0	934	10,0	10,5	6,0	5,2			61,75
69,0 a 70,0	935	7,1						65,60
70,0 a 71,0	936	6,3						72,57
71,0 a 72,0	937	7,2						76,84
72,0 a 73,0	938	5,9						70,58

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-015-MG

OBSERVAÇÃO: * Fósforo soluvel dosado por colorimetria

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	616/75	3,1						17,28
1,0 a 2,0	617	4,5						0,05
2,0 a 3,0	618	6,0						0,07
3,0 a 4,0	619	7,5						58,34
4,0 a 5,0	620	8,3						62,62
5,0 a 6,0	621	7,5						74,71
6,0 a 7,0	622	7,1						64,84
7,0 a 8,0	623	7,3						82,41
8,0 a 9,0	624	7,9						76,02
9,0 a 10,0	625	7,8						62,72
10,0 a 11,0	626	8,8						72,18
11,0 a 12,0	627	8,5						79,15
12,0 a 13,0	628	12,4	14,3	5,0	5,6			69,18
13,0 a 14,0	629	7,1						77,32
14,0 a 15,0	630	5,6						63,44
15,0 a 16,0	631	2,8						82,30
16,0 a 17,0	632	2,9						68,31

Cont. Furo: 2148-PM-015-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	633/75	2,6						57,93
18,0 a 19,0	634	3,3						83,27
19,0 a 20,0	635	1,1						75,60
20,0 a 21,0	636	5,3						
21,0 a 22,0	637	5,4						
22,0 a 23,0	638	2,7						
23,0 a 24,0	639	1,7						
24,0 a 25,0	640	1,3						
25,0 a 26,0	641	4,9						
26,0 a 27,0	642	4,6						
27,0 a 28,0	642-B	3,0						
28,0 a 29,0	643	5,0						
29,0 a 30,0	644	3,0						
30,0 a 31,0	645	1,1						
31,0 a 32,0	646	1,6						
32,0 a 33,0	647	2,0						
33,0 a 34,0	648	5,6						
34,0 a 35,0	649	5,2						
35,0 a 36,0	650	2,5						
36,0 a 27,0	651	3,6						
37,0 a 38,0	652	2,4						
38,0 a 39,0	653	1,6						
39,0 a 40,0	654	1,0						
40,0 a 41,0	655	2,3						
41,0 a 42,0	656	1,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-016-MG

OBSERVAÇÃO: ** Dosado por via umida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	939/75	14,0	6,7	7,8	7,2			
1,0 a 2,0	940	13,5	12,6	5,1	5,2			
2,0 a 3,0	941	15,4	15,1	5,5	4,8			
3,0 a 4,0	942	14,7	15,4	3,8	3,7			
4,0 a 5,0	943	14,6	16,6	5,5	4,5			
5,0 a 6,0	944	16,2	18,2	5,3	4,4			
6,0 a 7,0	945	19,1	21,0	5,2	3,7			
7,0 a 8,0	946	21,8	26,6	5,9	3,2			
8,0 a 9,0	947	19,2	21,0	5,7	4,5			
9,0 a 10,0	948	13,7	16,3	5,5	4,3			
10,0 a 11,0	949	12,0	16,0	3,8	4,0			
11,0 a 12,0	950	9,1						
12,0 a 13,0	951	13,3	19,1	3,3	3,2			
13,0 a 14,0	952	15,4	18,5	4,1	3,2			
14,0 a 15,0	953	11,5	15,7	3,3	3,5			
15,0 a 16,0	954	11,5	15,1	3,3	3,5			
16,0 a 17,0	955	11,3	15,4	2,9	3,7			

Cont. Furo: 2148-PM-016-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	956/75	15,0	19,1	4,1	3,7			
18,0 a 19,0	957	13,4	17,2	3,4	3,5			
19,0 a 20,0	958	15,2	16,0	3,6	2,9			
20,0 a 21,0	959	14,7	17,9	3,6	3,7			
21,0 a 22,0	960	18,8	22,9	4,6	3,2			
22,0 a 23,0	961	14,2	16,8	4,6	4,8			
23,0 a 24,0	962	13,8	17,4	4,6	3,5			
24,0 a 25,0	963	14,3	19,9	5,1	3,5			
25,0 a 26,0	964	15,0	16,3	4,1	3,7			
26,0 a 27,0	965	12,9	16,3	3,6	3,7			
27,0 a 28,0	966	15,6	17,7	3,8	3,6			
28,0 a 29,0	967	14,0	15,7	4,8	4,3			
29,0 a 30,0	968	11,9	14,3	4,1	4,3			
30,0 a 31,0	969	15,9	19,1	4,3	3,8			
31,0 a 32,0	970	16,7	19,1	5,6	4,0			
32,0 a 33,0	971	16,6	19,1	6,0	4,0			
33,0 a 34,0	972	14,8	19,9	5,5	3,2			
34,0 a 35,0	973	14,7	19,9	5,3	3,7			
35,0 a 36,0	974	7,8						
36,0 a 37,0	975	6,8						
37,0 a 38,0	976	6,0						
38,0 a 39,0	977	5,9						
39,0 a 40,0	978	8,5						
40,0 a 41,0	979	9,8	14,2	4,9	4,4			
41,0 a 42,0	980	7,5						
42,0 a 43,0	981	9,3	14,6	5,3	4,7			
43,0 a 44,0	982	13,2	16,7	4,6	3,7			

Cont. Furo: 2148-PM-016-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	983/75	13,1	15,4	4,6	3,1			
45,0 a 46,0	984	15,0	19,3	4,3	3,7			
46,0 a 47,0	985	12,6	17,5	4,8	3,5			
47,0 a 38,0	986	13,7	16,3	5,6	3,7			
48,0 a 39,0	987	10,6	13,9	5,9	3,2			
49,0 a 50,0	988	11,0	15,4	5,5	2,7			
50,0 a 51,0	989	12,4	14,6	5,6	2,9			
51,0 a 52,0	990	19,2	24,0	5,5	4,1			
52,0 a 53,0	991	13,4	16,3	5,6	2,9			
53,0 a 54,0	992	18,4	22,4	5,6	3,2			
54,0 a 55,0	993	19,8	23,0	5,0	3,2			
55,0 a 56,0	994	18,8	23,6	5,6	3,7			
56,0 a 57,0	995	16,3	21,6	5,9	3,9			
57,0 a 58,0	996	14,3	16,8	5,9	4,0			
58,0 a 59,0	997	18,6	24,1	5,3	4,3			
59,0 a 60,0	998	17,9	22,4	6,5	4,3			
60,0 a 61,0	999	17,4	21,9	6,5	6,2			
61,0 a 62,0	1000	17,2	22,0	5,9	4,0			
62,0 a 63,0	1001	15,7	20,2	6,4	4,0			
63,0 a 64,0	1002							
64,0 a 65,0	1003	18,3	23,3	5,0	4,4			
65,0 a 66,0	1004	14,9	21,3	5,2	4,0			
66,0 a 67,0	1005	16,5	17,4	5,3	4,3			
67,0 a 68,0	1006	13,3	14,0	5,7	6,4			
68,0 a 69,0	1007	16,5	21,9	0,2	2,4			
69,0 a 70,0	1008	10,7	17,7	1,8	2,3			
70,0 a 71,0	1009	12,4	21,3	1,5	2,4			

2148-PM-016-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-017-MG

OBSERVAÇÃO: ** Dosado por via umida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	658/75	7,9						
1,0 a 2,0	659	12,2	11,5	2,4	5,4			
2,0 a 3,0	660	11,3	13,2	5,5	5,4			
3,0 a 4,0	661	8,7						
4,0 a 5,0	662	8,2						
5,0 a 6,0	663	6,4						
6,0 a 7,0	664	5,6						
7,0 a 8,0	665	2,6						
8,0 a 9,0	666	1,9						
9,0 a 10,0	667	3,2						
10,0 a 11,0	668	6,8						
11,0 a 12,0	669	8,4						
12,0 a 13,0	670	6,4	14,3	5,4	5,6			
13,0 a 14,0	671	6,8						
14,0 a 15,0	672	6,3						
15,0 a 16,0	673	9,7	12,1	5,1	3,9			
16,0 a 17,0	674	3,4						

Cont. Furo: 2148-PM-017-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	675/75	1,9						
18,0 a 19,0	676	1,6						
19,0 a 20,0	677	1,3						
20,0 a 21,0	678	2,3						
21,0 a 22,0	679	2,2						
22,0 a 23,0	680	2,2						
23,0 a 24,0	681	5,5						
24,0 a 25,0	682	6,7						
25,0 a 26,0	683	6,4						
26,0 a 27,0	684	7,5						
27,0 a 28,0	685	8,5						
28,0 a 29,0	686	10,5	12,9	4,6	4,8			
29,0 a 30,0	687	12,2	15,6	4,1	4,1			
30,0 a 31,0	688	12,3	14,6	4,2	4,4			
31,0 a 32,0	689	12,4	17,7	3,4	4,0			
32,0 a 33,0	690	8,5						
33,0 a 34,0	691	7,8						
34,0 a 35,0	692	8,7						
35,0 a 36,0	693	9,7	14,9	3,3	4,4			
36,0 a 37,0	694	8,7						
37,0 a 38,0	695	7,8						
38,0 a 39,0	696	12,0	25,2	1,5	3,2			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS.
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-018-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	697/75	2,0						
1,0 a 2,0	698	1,7						
2,0 a 3,0	699	2,8						
3,0 a 4,0	700	2,4						
4,0 a 5,0	701	2,4						
5,0 a 6,0	702	2,0						
6,0 a 7,0	703	3,7						
7,0 a 8,0	704	1,5						
8,0 a 9,0	705	1,3						
9,0 a 10,0	706	0,9						
10,0 a 11,0	707	0,9						
11,0 a 12,0	708	0,8						
12,0 a 13,0	709	1,4						
13,0 a 14,0	710	1,0						
14,0 a 15,0	711	1,6						
15,0 a 16,0	712	2,6						
16,0 a 17,0	713	1,6						

Cont. Furo: 2148-PM-018-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	714/75	2,2						
18,0 a 19,0	715	5,3						
19,0 a 20,0	716	3,9						
20,0 a 21,0	717	7,6						
21,0 a 22,0	718	7,4						
22,0 a 23,0	719	7,1						
23,0 a 24,0	720	5,3						
24,0 a 25,0	721	6,9						
25,0 a 26,0	722	6,7						
26,0 a 27,0	723	8,0						
27,0 a 28,0	724	8,3						
28,0 a 29,0	725	6,4						
29,0 a 30,0	726	10,7	14,0	4,7	5,9			
30,0 a 31,0	727	12,1	17,0	3,8	4,7			
31,0 a 32,0	728	10,0	12,3	3,6	4,8			
32,0 a 33,0	729	3,5						
33,0 a 34,0	730	1,6						
34,0 a 35,0	731	1,3						
35,0 a 36,0	732	3,7						
36,0 a 37,0	733	5,7						
37,0 a 38,0	734	6,8						
38,0 a 39,0	735	1,4						
39,0 a 40,0	736	1,4						
40,0 a 41,0	737	1,4						
41,0 a 42,0	738	1,5						
42,0 a 43,0	739	1,2						
43,0 a 44,0	740	1,4						

Cont. Furo: 2148-PM-018-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-019-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	744/75	3,9						
1,0 a 2,0	745	2,6						
2,0 a 3,0	746	2,0						
3,0 a 4,0	747	1,7						
4,0 a 5,0	748	1,2						
5,0 a 6,0	749	1,7						
6,0 a 7,0	750	0,8						
7,0 a 8,0	751	1,3						
8,0 a 9,0	752	3,1						
9,0 a 10,0	753	3,1						
10,0 a 11,0	754	1,9						
11,0 a 12,0	755	1,3						
12,0 a 13,0	756	3,1						
13,0 a 14,0	757	5,2						
14,0 a 15,0	758	3,9						
15,0 a 16,0	759	4,2						
16,0 a 17,0	760	2,0						

Cont. Furo: 2148-PM-019-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 19,0	761/75	1,7						
18,0 a 19,0	762	3,8						
19,0 a 20,0	763	3,1						
20,0 a 21,0	764	3,7						
21,0 a 22,0	765	3,7						
22,0 a 23,0	766	1,7						
23,0 a 24,0	767	3,2						
24,0 a 25,0	768	5,2						
25,0 a 26,0	769	3,5						
26,0 a 27,0	770	2,4						
27,0 a 28,0	771	3,2						
28,0 a 29,0	772	5,3						
29,0 a 30,0	773	4,3						
30,0 a 31,0	774	4,0						
31,0 a 32,0	775	5,0						
32,0 a 33,0	776	2,8						
33,0 a 34,0	777	5,6						
34,0 a 35,0	778	3,4						
35,0 a 36,0	779	2,3						
36,0 a 37,0	780	1,4						
37,0 a 38,0	781	1,2						
38,0 a 39,0	782	3,8						
39,0 a 40,0	783	2,4						
40,0 a 41,0	784	2,9						
41,0 a 42,0	785	2,3						
42,0 a 43,0	786	2,0						
43,0 a 44,0	787	1,3						

Cont. Furo: 2148-PM-019-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	788/75	2,8						
45,0 a 46,0	789	2,9						
46,0 a 47,0	790	2,5						
47,0 a 48,0	791	2,3						
48,0 a 49,0	792	4,0						
49,0 a 50,10	793	2,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-020-MG

OBSERVAÇÃO: ** Dosado por via úmida.

* Fósforo solúvel dosado por colorimetria.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0								
1,0 a 2,0	2246/75	16,7	2,2	1,0	7,5			
2,0 a 3,0	2247	12,0	8,4	6,4	5,9			
3,0 a 4,0	224	13,5	14,8	5,7	5,0			
4,0 a 5,0	2249	13,6	17,1	4,8	4,4			
5,0 a 6,0	2250	16,5	17,9	7,1	4,4			
6,0 a 7,0	2251	18,0	22,1	5,1	3,9			
7,0 a 8,0	2252	12,3	15,9	6,1	3,2			
8,0 a 9,0	2253	12,3	16,5	5,1	4,4			
9,0 a 10,0	2254	10,1	14,0	5,1	4,3			
10,0 a 11,0	2255	11,8	13,7	6,1	4,9			
11,0 a 12,0	2256	12,2	17,6	4,2	4,1			
12,0 a 13,0	2257	11,0	15,9	4,8	4,2			
13,0 a 14,0	2258	12,8	17,6	4,6	4,2			
14,0 a 15,0	2259	14,9	18,7	3,8	4,1			
15,0 a 16,0	2260	16,9	21,3	4,6	4,0			
16,0 a 17,0	2261	17,7	21,0	4,3	3,7			

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	2262/75	17,8	22,4	3,8	3,8			
18,0 a 19,0	2263	11,4	15,9	3,0	3,1			
19,0 a 20,0	2264	11,0	15,9	5,6	4,4			
20,0 a 21,0	2265	12,8	18,5	6,6	4,4			
21,0 a 22,0	2266	11,8	15,9	5,6	4,2			
22,0 a 23,0	2267	10,3	15,9	3,6	4,1			
23,0 a 24,0	2268	10,1	14,5	4,7	4,6			
24,0 a 25,0	2269	14,5	18,7	5,6	4,5			
25,0 a 26,0	2270	17,5	21,8	6,0	4,1			
26,0 a 27,0	2271	15,9	18,2	6,0	4,2			
27,0 a 28,0	2272	15,0	18,7	5,7	4,1			
28,0 a 29,0	2273	16,7	20,7	5,6	4,3			
29,0 a 30,0	2274	18,6	22,4	4,4	4,2			
30,0 a 31,0	2275	16,5	20,1	6,9	4,3			
31,0 a 32,0	2276	17,3	18,7	6,2	3,6			
32,0 a 33,0	2277	14,6	16,8	5,6	4,6			
33,0 a 34,0	2278	12,9	14,8	6,9	4,7			
34,0 a 35,0	2279	14,9	17,6	7,1	4,6			
35,0 a 36,0	2280	11,9	15,1	6,4	6,0			
36,0 a 37,0	2281	13,3	15,7	6,9	5,1			
37,0 a 38,0	2282	15,7	18,5	5,9	5,6			
38,0 a 39,0	2283	17,1	20,1	4,6	4,1			
39,0 a 40,0	2284	19,2	23,5	4,8	3,6			
40,0 a 41,0	2285	15,9	20,1	4,6	4,2			
41,0 a 42,0	2286	13,5	15,7	5,1	4,3			
42,0 a 43,0	2287	12,0	14,8	4,7	4,6			
43,0 a 44,0	2288	12,3	15,4	4,3	4,1			

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	2289/75	14,7	17,3	5,1	4,0			
45,0 a 46,0	2290	13,7	17,6	3,4	3,5			
46,0 a 47,0	2291	10,0	12,3	4,3	4,2			
47,0 a 48,0	2292	13,6	16,2	3,8	3,7			
48,0 a 49,0	2293	10,5	13,1	4,1	4,4			
49,0 a 50,0	2294	10,0	12,3	4,6	5,1			
50,0 a 51,0	2295	8,7						
51,0 a 52,0	2296	6,8						
52,0 a 53,0	2297	16,4	18,5	4,6	3,7			
53,0 a 54,0	2298	9,0						
54,0 a 55,0	2299	17,1	19,6	3,8	4,1			
55,0 a 56,0	2300	16,1	17,9	4,6	5,1			
56,0 a 57,0	2301	12,6	15,1	3,8	4,1			
57,0 a 58,0	2302	12,0	14,0	3,5	4,2			
58,0 a 59,0	2303	13,6	17,6	0,4	3,6			
59,0 a 60,0	2304	9,2						
60,0 a 61,0	2305	10,6	17,9	1,9	3,6			
61,0 a 62,0	2306	11,6	19,9	1,8	3,4			
62,0 a 63,0	2307	15,2	21,3	2,3	3,9			
63,0 a 64,0	2308	18,3	23,8	2,3	3,6			
64,0 a 65,0	2309	15,1	21,0	1,78	3,6			
65,0 a 66,0	2310	12,7	19,6	4,4	4,0			
66,0 a 67,0	2311	11,2	24,9	0,8	3,2			
67,0 a 68,0	2312	7,1						
68,0 a 69,0	2313	7,8						
69,0 a 70,0	2314	9,6	31,9	1,0	2,1			
70,0 a 71,0	2315	9,5	30,8	1,3	2,4			

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
71,0 a 72,0	2316/75	8,7						
72,0 a 73,0	2317	10,9	36,9	0,8	1,6			
73,0 a 74,0	2318	9,1						
74,0 a 75,0	2319	7,7						
75,0 a 76,0	2320	8,3						
76,0 a 77,0	2321	10,0	34,7	0,8	2,2			
77,0 a 78,0	2322	11,2	33,6	1,8	2,5			
78,0 a 79,0	2323	11,1	36,4	0,6	1,8			
79,0 a 80,0	2324	10,5	33,0	1,5	2,2			
80,0 a 81,0	2325	11,1	37,5	0,8	1,8			
81,0 a 82,0	2326	11,6	21,3	0,2	1,9			
82,0 a 83,0	2327	12,5	36,9	0,2	1,6			
83,0 a 84,0	2328	11,7	31,9	1,4	1,9			
84,0 a 85,0	2329	11,9	30,2	0,6	2,1			
85,0 a 86,0	2330	11,4	34,7	3,2	1,6			
86,0 a 87,0	2331	12,9	33,6	1,1	2,1			
87,0 a 88,0	2332	13,0	34,7	1,0	1,9			
88,0 a 89,0	2333	12,7	31,3	0,6	2,0			
89,0 a 90,0	2334	14,1	29,9	0,9	2,2			
90,0 a 91,0	2335	11,9	28,3	0,6	2,7			
91,0 a 92,0	2336	12,1	30,5	0,9	2,2			
92,0 a 93,0	2337	14,6	28,3	1,4	2,3			
93,0 a 94,0	2338	12,7	31,3	0,5	1,8			
94,0 a 95,0	2339	11,3	22,9	1,0	2,1			
95,0 a 96,0	2340	9,2						
96,0 a 97,0	2341	14,5	28,5	1,3	2,2			
97,0 a 98,0	2342	15,6	31,6	1,0	2,3			

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
98,0 a 99,0	2343/5	12,1	37,5	0,4	1,7			
99,0 a 100,0	2344	10,2	31,1	0,4	2,3			
100,0 a 101,0	2345	13,8	31,9	1,1	2,1			
101,0 a 102,0	2346	16,4	28,0	1,0	2,6			
102,0 a 103,0	2347	13,8	39,2	0,5	1,7			
103,0 a 104,0	2348	15,5	35,2	0,8	2,4			
104,0 a 105,0	2349	13,0	36,4	0,5	2,1			
105,0 a 106,0	2350	13,2	30,2	1,1	2,1			
106,0 a 107,0	2351	15,1	31,3	0,8	2,2			
107,0 a 108,0	2352	18,0	28,0	1,3	2,8			
108,0 a 109,0	2353	15,4	36,9	1,0	2,0			
109,0 a 110,0	2354	11,9	39,7	0,4	2,0			
110,0 a 111,0	2355	14,1	40,8	0,8	1,9			
111,0 a 112,0	2356	16,7	40,8	0,2	1,9			
112,0 a 113,0	2357	13,3	34,7	0,8	2,2			
113,0 a 114,0	2358	12,4	36,4	0,4	1,9			
114,0 a 115,0	2359	11,4	38,6	0,1	1,6			
115,0 a 116,0	2360	12,8	36,4	0,2	1,9			
116,0 a 117,0	2361	14,4	34,7	0,5	2,1			
117,0 a 118,0	2362	15,6	28,8	1,0	2,6			
118,0 a 119,0	2363	17,4	36,9	1,1	1,9			
119,0 a 120,0	2364	16,9	34,7	1,1	2,0			
120,0 a 121,0	2365	11,1	37,05	0,8	1,8			
121,0 a 122,0	2366	14,2	29,4	1,3	2,4			
122,0 a 123,0	2367	13,6	38,6	0,5	1,7			
123,0 a 124,0	2368	14,3	36,4	0,5	1,8			
124,0 a 125,0	2369	14,5	34,7	0,9	1,9			

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRECA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
125,0 a 126,0	2370/5	16,2	39,7	1,0	1,6			
126,0 a 127,0	2371	17,3	39,7	0,1	1,6			
127,0 a 128,0	2372	17,1	38,6	0,8	1,8			
128,0 a 129,0	2373	13,7	33,6	2,3	2,3			
129,0 a 130,0	2374	14,5	37,5	0,5	2,0			
130,0 a 131,0	2375	14,4	39,2	0,6	1,8			
131,0 a 132,0	2376	15,3	35,2	1,0	2,1			
132,0 a 133,0	2377	15,2	35,8	0,2	2,1			
133,0 a 134,0	2378	14,2	33,6	1,0	2,2			
134,0 a 135,0	2379	15,4	34,7	1,3	2,1			
135,0 a 136,0	2380	15,7	33,6	1,5	2,3			
136,0 a 137,0	2381	15,5	31,3	1,3	2,5			
137,0 a 138,0	2382	11,8	29,7	0,8	2,5			
138,0 a 139,0	2383	12,7	35,2	1,0	1,9			
139,0 a 140,0	2384	15,8	36,9	1,0	1,9			
140,0 a 141,0	2385	17,5	33,0	1,1	2,1			
141,0 a 142,0	2386	17,3	36,4	1,1	1,7			
142,0 a 143,0	2387	16,0	35,2	0,9	1,8			
143,0 a 144,0	2388	15,8	36,9	1,0	1,9			
144,0 a 145,0	2389	15,7	36,9	7,5	1,9			
145,0 a 146,0	2390	16,5	31,9	1,3	2,1			
146,0 a 147,0	2391	15,6	40,3	1,0	2,0			
147,0 a 148,0	2392	15,4	40,3	1,3	1,9			
148,0 a 149,0	2393	15,1	35,8	1,0	2,1			
149,0 a 150,0	2394	13,9	39,7	0,9	1,7			
150,0 a 151,0	2395	14,5	40,8	0,6	1,7			
151,0 a 152,0	2396	15,6	36,9	1,3	2,2			

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
152,0 a 153,0	2397/5	17,1	36,4	1,5	2,1			
153,0 a 154,0	2398	19,9	32,5	1,3	2,7			
154,0 a 155,0	2399	13,6	43,6	0,4	1,4			
155,0 a 156,0	2400	17,4	46,4	0,0	1,3			
156,0 a 157,0	2401	15,9	40,8	0,6	1,6			
157,0 a 158,0	2402	13,1	35,2	1,1	2,3			
158,0 a 159,0	2403	13,2	36,9	3,7	2,1			
159,0 a 160,0	2404	13,2	39,7	0,9	1,9			
160,0 a 161,0	2405	13,7	35,2	1,0	2,3			
161,0 a 162,0	2406	15,4	29,7	1,1	2,9			
162,0 a 163,0	2407	13,5	32,5	1,6	2,7			
163,0 a 164,0	2408	13,8	35,2	1,5	2,4			
164,0 a 165,0	2409	11,8	32,5	1,1	2,4			
165,0 a 166,0	2410	12,9	33,0	1,6	2,6			
166,0 a 167,0	2411	14,4	38,0	1,0	2,2			
167,0 a 168,0	2412	13,8	36,9	1,3	2,3			
168,0 a 169,0	2413	12,9	33,0	1,5	2,5			
169,0 a 170,0	2414	13,2	35,2	1,1	2,4			
170,0 a 171,0	2415	11,7	33,0	1,4	2,6			
171,0 a 172,0	2416	11,4	29,1	1,0	2,9			
172,0 a 173,0	2417	5,2						
173,0 a 174,0	2418	4,4						
174,0 a 175,0	2419	11,1						
175,0 a 176,0	2420	6,2						
176,0 a 177,0	2421	5,0						
177,0 a 178,0	2422	5,8						
178,0 a 179,0	2423	4,6						

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
179,0 a 180,0	2424/75	4,9						
180,0 a 181,0	2425	5,5						
181,0 a 182,0	2426	3,0						
182,0 a 193,0	2427	2,7						
183,0 a 184,0	2428	3,1						
184,0 a 185,0	2429	2,7						
185,0 a 186,0	2430	2,3						
186,0 a 187,0	2431	2,7						
187,0 a 188,0	2432	4,9						
188,0 a 189,0	2433	3,7						
189,0 a 190,0	2434	2,9						
190,0 a 191,0	2435	2,6						
191,0 a 192,0	2436	3,2						
192,0 a 193,0	2437	3,2						
193,0 a 194,0	2438	2,8						
194,0 a 195,0	2439	3,9						
195,0 a 196,0	2440	4,2						
196,0 a 197,0	2441	2,2						
197,0 a 198,0	2442	2,3						
198,0 a 199,0	2443	3,2						
199,0 a 200,0	2444	2,9						
200,0 a 201,0	2445	2,8						
201,0 a 202,0	2446	2,7						
202,0 a 203,0	2447	2,5						
203,0 a 204,0	2448	3,8						
204,0 a 205,0	2449	4,0						
205,0 a 206,0	2450	3,5						

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
206,0 a 207,0	2451/75	3,8						
207,0 a 208,0	2452	5,6						
208,0 a 209,0	2453	6,2						
209,0 a 210,0	2454	4,4						
210,0 a 211,0	2455	3,5						
211,0 a 212,0	2456	3,6						
212,0 a 213,0	2457	4,8						
213,0 a 214,0	2458	2,8						
214,0 a 215,0	2459	4,6						
215,0 a 216,0	2460	2,9						
216,0 a 217,0	2461	2,9						
217,0 a 218,0	2462	3,6						
218,0 a 219,0	2463	3,6						
219,0 a 220,0	2464	4,0						
220,0 a 221,0	2465	2,9						
221,0 a 222,0	2466	3,5						
222,0 a 223,0	2467	3,3						
223,0 a 224,0	2468	3,1						
224,0 a 225,0	2469	2,5						
225,0 a 226,0	2470	4,1						
226,0 a 227,0	2471	2,6						
227,0 a 228,0	2472	3,1						
228,0 a 229,0	2473	1,8						
229,0 a 230,0	2474	3,0						
230,0 a 231,0	2475	3,5						
231,0 a 232,0	2476	3,6						
232,0 a 233,0	2477	4,3						

Cont. Furo: 2148-PM-020-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
233,0 a 234,0	2478/75	6,0						
234,0 a 235,0	2479	2,2						
235,0 a 236,0	2480	3,0						
236,0 a 237,0	2481	6,3						
237,0 a 238,0	2482	2,8						
238,0 a 239,0	2483	6,0						
239,0 a 240,0	2484	9,0						
240,0 a 241,0	2485	6,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: MITSUI

TIPO DE ANÁLISE: SOLUBILIDADE CÍTRICA A 2%

FURO DE SONDA: 2148-PM-021-MG

OBSERVAÇÃO: ** Dosado por via úmida.

* Fosforo soluvel dosado por colorimetria.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1012/75	6,6						13,1
1,0 a 2,0	1013	2,3						10,0
2,0 a 3,0	1014	3,3						7,0
3,0 a 4,0	1015	2,6						4,3
4,0 a 5,0	1016	2,6						1,9
5,0 a 6,0	1017	6,0						66,5
6,0 a 7,0	1018	7,3						70,5
7,0 a 8,0	1019	5,0						74,2
8,0 a 9,0	1020	6,1						76,7
9,0 a 10,0	1021	5,0						77,0
10,0 a 11,0	1022	6,7						74,5
11,0 a 12,0	1023	7,1						80,0
12,0 a 13,0	1024	6,7						76,3
13,0 a 14,0	1025	6,0						78,5
14,0 a 15,0	1026	8,6						71,6
15,0 a 16,0	1027	9,3	11,2	4,2	3,8			70,7
16,0 a 17,0	1028	7,7	11,2	3,8	3,9			74,0

Cont. Furo: 2148-PM-021-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1029/75	9,3						67,7
18,0 a 19,0	1030	7,6						69,7
19,0 a 20,0	1031	12,2	13,1	6,9	4,6			64,7
20,0 a 21,0	1032	10,4	11,5	4,3	4,1			75,3
21,0 a 22,0	1033	9,0						66,7
22,0 a 23,0	1034	9,3	11,5	3,8	4,5			64,6
23,0 a 24,0	1035	8,3						67,2
24,0 a 25,0	1036	7,7						64,8
25,0 a 26,0	1037	6,9						68,7
26,0 a 27,0	1038	8,1						50,8
27,0 a 28,0	1039	8,7						55,6
28,0 a 29,0	1040	12,0	14,0	5,9	4,5			41,6
29,0 a 30,0	1041	11,4	13,5	5,2	4,4			49,9
30,0 a 31,0	1042	11,4	12,9	3,9	4,2			51,3
31,0 a 32,0	1043	7,7						66,6
32,0 a 33,0	1044	11,2	13,7	4,2	4,0			55,1
33,0 a 34,0	1045	12,4	15,4	5,1	4,2			47,1
34,0 a 35,0	1046	12,6	15,7	4,4	4,4			53,4
35,0 a 36,0	1047	13,7	17,1	4,9	4,3			52,0
36,0 a 37,0	1048	13,7	16,5	5,6	4,0			53,1
37,0 a 38,0	1049	11,2	14,3	3,2	3,9			56,4
38,0 a 39,0	1050	8,9						59,6
39,0 a 40,0	1051	8,6						65,0
40,0 a 41,0	1052	13,3	16,2	3,9	4,0			56,9
41,0 a 42,0	1053	12,6	15,9	4,3	4,3			60,2
42,0 a 43,0	1054	12,7	15,9	3,8	4,4			57,3
43,0 a 44,0	1055	15,4	16,5	5,5	3,8			53,7

Cont. Furo: 2148-PM-021-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	1056/75	10,1	12,6	6,5	4,2			64,8
45,0 a 46,0	1057	13,3	16,5	5,1	3,8			59,1
46,0 a 47,0	1058	14,4	18,5	3,8	4,0			60,4
47,0 a 48,0	1059	10,0	12,3	2,7	3,6			80,0
48,0 a 49,0	1060	18,0	21,8	5,8	4,5			52,3
49,0 a 50,0	1061	13,4	16,8	4,2	4,1			56,3
50,0 a 51,0	1062	14,9	17,6	5,1	4,0			55,8
51,0 a 52,0	1063	15,2	18,2	5,6	3,5			64,1
52,0 a 53,0	1064	16,6	17,3	3,9	3,4			56,9
53,0 a 54,0	1065	18,9	22,9	4,3	3,6			50,8
54,0 a 55,0	1066	15,4	18,5	4,8	3,9			50,9
55,0 a 56,0	1067	14,6	18,7	4,6	4,3			53,9
56,0 a 57,0	1068	17,6	21,8	5,6	3,7			53,6
57,0 a 58,0	1069	21,6	28,5	3,9	3,6			43,7
58,0 a 59,0	1070	13,4	16,5	2,5	4,2			56,3
59,0 a 60,0	1071	19,5	24,3	3,0	2,8			48,5
60,0 a 61,0	1072	16,2	19,3	5,1	4,1			45,1
61,0 a 62,0	1073	20,3	23,5	5,1	3,1			48,4
62,0 a 63,0	1074	18,5	21,8	4,2	3,5			51,1
63,0 a 64,0	1075	16,2	19,6	6,7	3,9			54,8
64,0 a 65,0	1076	16,7	20,1	5,3	3,7			53,8
65,0 a 66,0	1077	15,9	19,0	3,9	3,9			55,0
66,0 a 67,0	1078	14,4	26,8	2,8	2,9			38,6
67,0 a 68,0	1079	16,5	21,5	4,6	3,6			51,3
68,0 a 69,0	1080	15,7	19,9	0,5	3,6			52,7
69,0 a 70,0	1081	14,0	16,5	3,6	4,3			60,2
70,0 a 71,0	1082	14,9	17,6	4,6	3,9			59,6

Cont. Furo: 2148-PM-021-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
71,0 a 72,0	1083/75	13,2	16,2	4,9	4,0			60,9
72,0 a 73,0	1084	11,7	21,5	0,8	3,5			47,6
73,0 a 74,0	1085	9,3						23,0
74,0 a 75,0	1086	7,0						20,4
75,0 a 76,0	1087	9,0						25,4
76,0 a 77,0	1088	6,0						19,0
77,0 a 78,0	1089	8,0						25,0

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: MITSUI

TIPO DE ANÁLISE: SOLUBILIDADE CÍTRICA 2%

FURO DE SONDA: 2148-PM-022-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colimetria

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	794/75	14,3	0,8	15,5	7,0			10,0
1,0 a 2,0	795	13,3	7,5	8,0	6,9			47,3
2,0 a 3,0	796	14,8	13,4	5,6	5,1			63,2
3,0 a 4,0	797	16,0	16,5	5,9	4,6			65,2
4,0 a 5,0	798	9,9	9,8	3,8	2,1			69,6
5,0 a 6,0	799	13,4	16,8	2,7	4,4			63,8
6,0 a 7,0	800	23,3	28,5	2,2	1,4			44,8
7,0 a 8,0	801	15,7	19,3	2,2	1,9			60,0
8,0 a 9,0	802	15,0	17,1	1,8	1,2			62,8
9,0 a 10,0	803	12,9	16,5	3,8	3,2			58,2
10,0 a 11,0	804	14,9	19,0	3,2	3,8			57,7
11,0 a 12,0	805	13,7	16,8	2,5	3,2			59,3
12,0 a 13,0	806	14,0	18,2	2,5	1,9			55,1
13,0 a 14,0	807	13,2	17,6	3,3	4,0			66,3
14,0 a 15,0	808	15,2	19,3	3,4	3,8			67,0
15,0 a 16,0	809	8,6						78,3
16,0 a 17,0	810	10,9	11,2	3,8	4,4			51,3

Cont. Furo: 2148-PM-022-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	811/75	11,0	14,8	2,9	4,4			61,0
18,0 a 19,0	812	9,6	11,2	3,3	4,6			65,7
19,0 a 20,0	813	7,9						60,0
20,0 a 21,0	814	6,3						68,1
21,0 a 22,0	815	3,9						66,6
22,0 a 23,0	816	5,5						
23,0 a 24,0	817	5,7						
24,0 a 25,0	818	4,1						68,9
25,0 a 26,0	819	4,1						65,5
26,0 a 27,0	820	3,1						72,7
27,0 a 28,0	821	4,9						70,6
28,0 a 29,0	822	4,0						67,8
29,0 a 30,0	823	5,7						67,5
30,0 a 31,0	824	4,9						64,8
31,0 a 32,0	825	5,4						57,9
32,0 a 33,0	826	4,1						68,9
33,0 a 34,0	827	3,0						66,7
34,0 a 35,0	828	3,7						69,1
35,0 a 36,0	829	6,4						64,4
36,0 a 37,0	830	6,4						64,4
37,0 a 38,0	831	2,6						76,4
38,0 a 39,0	832	6,3						70,3
39,0 a 40,0	833	3,6						59,8
40,0 a 41,0	834	4,9						76,5
41,0 a 42,0	835	3,4						62,4
42,0 a 43,0	836	1,9						61,3
43,0 a 44,0	837	1,1						24,6

Cont. Furo: 2148-PM-022-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	838/75	1,1						37,7
45,0 a 46,0	839	2,0						35,5
46,0 a 47,10	840	1,1						50,0

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-023-MG

OBSERVAÇÃO: * Fósforo soluvel dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1090/75	12,7	15,4	4,6	3,9			73,0
1,0 a 2,0	1091	19,5	23,5	4,8	3,1			52,9
2,0 a 3,0	1092	20,5	24,6	3,7	29,7			53,9
3,0 a 4,0	1093	19,6	24,6	3,0	3,1			54,7
4,0 a 5,0	1094	18,7	22,1	4,2	3,3			50,3
5,0 a 6,0	1095	17,6	21,8	6,1	3,4			46,4
6,0 a 7,0	1096	19,9	23,8	1,6	3,1			46,7
7,0 a 8,0	1097	19,5	24,3	3,9	3,3			48,5
8,0 a 9,0	1098	14,4	18,5	4,1	4,0			58,4
9,0 a 10,0	1099	15,4	18,5	3,8	3,1			53,7
10,0 a 11,0	1100	15,0	18,2	3,4	3,6			50,4
11,0 a 12,0	1101	11,4	14,5	2,9	3,7			53,7
12,0 a 13,0	1102	11,0	14,0	3,8	4,0			53,3
13,0 a 14,0	1103	12,0	15,1	4,5	4,1			54,7
14,0 a 15,0	1104	14,3	16,8	5,3	3,6			49,0
15,0 a 16,0	1105	7,3						62,7
16,0 a 17,0	1106	12,3	15,7	4,7	3,6			59,3
17,0 a 18,0	1107	14,4	17,9	5,1	3,6			59,4

Cont. Puro: 2148-PM-023-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1108/75	18,0	22,1	5,3	3,1			57,9
19,0 a 20,0	1109	14,9	18,2	4,1	3,5			57,7
20,0 a 21,0	1110	14,4	17,1	3,4	3,6			63,4
21,0 a 22,0	1111	12,7	15,7	3,8	4,1			55,0
22,0 a 23,0	1112	11,9	14,8	4,3	4,1			60,2
23,0 a 24,0	1113	13,2	16,8	5,1	3,9			62,0
24,0 a 25,0	1114	15,3	18,5	4,6	4,6			59,8
25,0 a 26,0	1115	15,6	18,5	2,5	3,3			61,5
26,0 a 27,0	1116	18,7	22,1	4,6	3,3			59,5
27,0 a 28,0	1117	17,5	21,0	4,8	3,6			59,0
28,0 a 29,0	1118	16,5	19,0	6,4	3,6			66,0
29,0 a 30,0	1119	14,4	17,3	4,7	3,6			63,4
30,0 a 31,0	1120	12,9	16,2	4,4	3,9			73,3
31,0 a 32,0	1121	9,6	12,3	6,0	3,8			67,1
32,0 a 33,0	1122	10,7	13,4	4,1	4,8			70,6
33,0 a 34,0	1123	13,3	16,2	4,1	3,8			58,1
34,0 a 35,0	1124	18,0	21,0	5,2	3,6			57,1
35,0 a 36,0	1125	21,2	22,7	7,3	3,3			56,7
36,0 a 37,0	1126	19,0	21,8	4,3	3,2			54,1
37,0 a 38,0	1127	19,0	21,3	5,1	3,5			61,6
38,0 a 39,0	1128	21,2	24,1	4,7	2,9			51,3
39,0 a 40,0	1129	16,5	19,3	4,7	3,4			56,6
40,0 a 41,0	1130	15,3	16,5	6,4	4,1			52,2
41,0 a 42,0	1131	15,6	17,3	6,2	4,6			52,3
42,0 a 43,0	1132	17,5	19,0	8,1	3,9			49,1
43,0 a 44,0	1133	17,2	18,7	5,3	3,6			54,2
44,0 a 45,0	1134	20,6	18,2	5,2	3,6			38,2

Cont. Furo: 2148-PM-023-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	1135/75	20,2	22,1	5,6	3,6			48,9
46,0 a 47,0	1136	17,2	21,0	5,1	3,1			62,5
47,0 a 48,0	1137	21,0	21,5	5,7	3,6			52,4
48,0 a 49,0	1138	20,6	21,8	4,8	3,2			45,1
49,0 a 50,0	1139	15,9	17,1	5,4	3,8			53,1
50,0 a 51,0	1140	18,5	21,0	5,9	3,2			56,6
51,0 a 52,0	1141	16,2	18,2	4,1	4,1			57,5
52,0 a 53,0	1142	16,2	18,7	3,9	4,3			57,5
53,0 a 54,0	1143	19,6	21,0	5,2	3,2			54,0
54,0 a 55,0	1144	19,6	21,3	4,2	3,2			56,2
55,0 a 56,0	1145	18,9	21,1	4,8	3,4			57,5
56,0 a 57,0	1146	19,9	20,1	3,3	2,8			60,4
57,0 a 58,0	1147	22,3	23,8	3,8	2,9			48,7
58,0 a 59,0	1148	20,7	23,8	3,3	2,6			49,0
59,0 a 60,0	1149	11,2	29,7	2,0	1,9			28,2
60,0 a 61,0	1150	8,7						24,5
61,0 a 61,90	1151	8,2						21,1

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-024-MG

OBSERVAÇÃO: * Fósforo dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1152/75	8,6						5,0
1,0 a 2,0	1153	3,9						2,6
2,0 a 3,0	1154	1,1						0,0
3,0 a 4,0	1155	2,4						0,0
4,0 a 5,0	1156	1,4						0,0
5,0 a 6,0	1157	1,4						0,0
6,0 a 7,0	1158	1,4						0,0
7,0 a 8,0	1159	0,9						0,0
8,0 a 9,0	1160	1,0						0,0
9,0 a 10,0	1161	1,0						0,0
10,0 a 11,0	1162	2,1						20,1
11,0 a 12,0	1163	1,3						8,5
12,0 a 13,0	1164	2,0						11,5
13,0 a 14,0	1165	2,0						35,5
14,0 a 15,0	1166	4,3						66,7
15,0 a 16,0	1167	6,0						64,2
16,0 a 17,0	1168	6,3						70,3
17,0 a 18,0	1169	6,3						77,1

Cont. Furo: 2148-PM-024-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1170/75	6,2						
19,0 a 20,0	1171	3,9						
20,0 a 21,0	1172	2,3						56,3
21,0 a 23,0	1173	6,0						54,7
22,0 a 23,0	1174	9,9	10,6	3,2	5,0			57,9
23,0 a 24,0	1175	7,9						56,3
24,0 a 25,0	1176	9,7	10,3	3,8	4,9			61,7
25,0 a 26,0	1177	7,7						68,4
26,0 a 27,0	1178	8,2						63,1
27,0 a 28,0	1179	8,7						68,8
28,0 a 29,0	1180	7,4						63,4
29,0 a 30,0	1181	7,6						60,4
30,0 a 31,0	1182	7,4						57,7
31,0 a 32,0	1183	5,4						68,4
32,0 a 33,0	1184	8,0						71,4
33,0 a 34,0	1185	8,7						70,4
34,0 a 35,0	1186	10,7	11,5	4,3	4,5			66,6
35,0 a 36,0	1187	11,4	12,3	4,1	4,3			63,7
36,0 a 37,0	1188	15,0	15,7	4,3	3,9			61,9
37,0 a 38,0	1189	12,3	13,5	4,2	4,1			59,3
38,0 a 39,0	1190	13,7	15,4	3,9	3,9			63,5
39,0 a 40,0	1191	10,9	11,5	3,6	4,2			63,2
40,0 a 41,0	1192	7,9						69,1
41,0 a 42,0	1193	11,6	13,7	3,3	3,7			66,7
42,0 a 43,0	1194	7,1						42,0
43,0 a 44,0	1195	5,1						33,4
44,0 a 45,0	1196	5,7						30,1
45,0 a 46,0	1197	6,1						34,8

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-025-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1294/75	1,9						
1,0 a 2,0	1295	3,2						
2,0 a 3,0	1296	4,8						
3,0 a 4,0	1297	5,4						
4,0 a 5,0	1298	5,2						
5,0 a 6,0	1299	5,3						
6,0 a 7,0	1300	5,4	9,8	3,6	4,8			
7,0 a 8,0	1301	5,7	9,8	3,8	4,4			
8,0 a 9,0	1302	6,4	12,1	3,6	4,0			
9,0 a 10,0	1303	6,2	10,1	4,3	4,1			
10,0 a 11,0	1304	5,0	11,8	3,8	4,7			
11,0 a 12,0	1305	6,2						
12,0 a 13,0	1306	6,7						
13,0 a 14,0	1307	5,9						
14,0 a 15,0	1308	5,2						
15,0 a 16,0	1309	6,2						
16,0 a 17,0	1310	5,8						
17,0 a 18,0	1311	5,7						

Cont. Furo: 2148-PM-025-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1312/75	6,5	13,6	5,5	4,1			
19,0 a 20,0	1313	8,0	12,1	4,3	4,1			
20,0 a 21,0	1314	7,4	10,9	5,3	3,9			
21,0 a 22,0	1315	6,5	12,9	4,6	5,0			
22,0 a 23,0	1316	7,8	10,7	3,8	5,5			
23,0 a 24,0	1317	8,0	9,5	4,6	5,1			
24,0 a 25,0	1318	8,2	11,8	5,3	4,7			
25,0 a 26,0	1319	8,1	14,6	5,3	4,5			
26,0 a 27,0	1320	9,4	14,3	5,1	5,0			
27,0 a 28,0	1321	12,3	16,3	4,6	5,0			
28,0 a 29,0	1322	10,2	12,2	5,6	5,1			
29,0 a 30,0	1323	10,7	14,6	5,3	4,7			
30,0 a 31,0	1324	10,8	14,2	5,1	4,8			
31,0 a 32,0	1325	15,5	16,0	5,1	4,8			
32,0 a 33,0	1326	11,9	13,7	5,1	5,1			
33,0 a 34,0	1327	11,6	11,2	4,8	5,1			
34,0 a 35,0	1328	12,8	12,6	5,3	4,8			
35,0 a 36,0	1329	9,2						
36,0 a 37,0	1330	11,7	12,3	5,1	5,1			
37,0 a 38,0	1331	10,8	12,2	4,8	4,8			
38,0 a 39,0	1332	13,0	16,8	4,8	4,8			
39,0 a 40,0	1333	15,2	20,5	5,3	4,8			
40,0 a 41,0	1334	13,8	14,3	4,6	4,5			
41,0 a 42,0	1335	9,3	16,4	5,1	5,1			
42,0 a 43,0	1336	8,8						
43,0 a 44,0	1337	13,2	18,8	4,6	4,1			
44,0 a 45,0	1338	8,6						

Cont. Furo: 2148-PM-025-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	1339/75	9,3	10,9	3,9	4,7			
46,0 a 47,0	1340	8,8						
47,0 a 48,0	1341	5,4						
48,0 a 49,0	1342	3,9						
49,0 a 50,0	1343	5,0						
50,0 a 51,25	1344	4,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-026-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1201/75	4,4						
1,0 a 2,0	1202	2,4						
2,0 a 3,0	1203	1,8						
3,0 a 4,0	1204	2,0						
4,0 a 5,0	1205	3,3						
5,0 a 6,0	1206	2,2						
6,0 a 7,0	1207	2,5						
7,0 a 8,0	1208	2,4						
8,0 a 9,0	1209	4,1						
9,0 a 10,0	1210	1,2						
10,0 a 11,0	1211	3,4						
11,0 a 12,0	1212	2,9						
12,0 a 13,0	1213	3,0						
13,0 a 14,0	1214	1,9						
14,0 a 15,0	1215	2,0						
15,0 a 16,0	1216	5,2						
16,0 a 17,0	1217	4,3						

Cont. Furo: 2148-PM-026-MG

PROFUNDIDADE. (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1218/75	2,4						
18,0 a 19,0	1219	1,9						
19,0 a 20,0	1220	1,4						
20,0 a 21,0	1221	2,3						
21,0 a 22,0	1222	1,9						
22,0 a 23,0	1223	3,8						
23,0 a 24,0	1224	2,1						
24,0 a 25,0	1225	2,8						
25,0 a 26,0	1226	3,3						
26,0 a 27,0	1227	3,3						
27,0 a 28,0	1228	1,2						
28,0 a 29,0	1229	1,2						
29,0 a 30,0	1230	1,4						
30,0 a 31,0	1231	1,2						
31,0 a 32,0	1232	0,6						
32,0 a 33,0	1233	0,6						
33,0 a 34,0	1234	1,1						
34,0 a 35,0	1235	1,6						
35,0 a 36,0	1236	1,9						
36,0 a 37,0	1237	2,4						
37,0 a 38,0	1238	3,0						
38,0 a 39,0	1239	3,0						
39,0 a 40,0	1240	1,8						
40,0 a 41,0	1241	1,6						
41,0 a 42,0	1242	1,7						
42,0 a 43,0	1243	0,8						
43,0 a 44,0	1244	1,1						

Cont. Furo: 2148-PM-026-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	1245/75	1,0						
45,0 a 46,0	1246	1,2						
46,0 a 47,0	1247	1,6						
47,0 a 48,0	1248	1,8						
48,0 a 49,0	1249	0,8						
49,0 a 50,0	1250	0,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-027-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA	
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	A	2%
0,0 a 1,0	1679/75	5,6							
1,0 a 2,0	1680	4,5							
2,0 a 3,0	1681	4,4							
3,0 a 4,0	1682	4,0							
4,0 a 5,0	1683	3,6							
5,0 a 6,0	1684	4,7							
6,0 a 7,0	1685	2,0							
7,0 a 8,0	1686	2,7							
8,0 a 9,0	1687	4,2							
9,0 a 10,0	1688	5,1							
10,0 a 11,0	1689	4,4							
11,0 a 12,0	1690	4,5							
12,0 a 13,0	1691	5,1							
13,0 a 14,0	1692	3,3							
14,0 a 15,0	1693	1,5							
15,0 a 16,0	1694	4,6							
16,0 a 17,0	1695	1,3							

Cont. Furo: 2148-PM-027-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1696/75	8,1						
18,0 a 19,0	1697	6,4						
19,0 a 20,0	1698	4,7						
20,0 a 21,0	1699	3,5						
21,0 a 22,0	1700	4,8						
22,0 a 23,0	1701	4,4						
23,0 a 24,0	1702	3,3						
24,0 a 25,0	1703	2,1						
25,0 a 26,0	1704	1,6						
26,0 a 27,0	1705	1,7						
27,0 a 28,0	1706	6,4						
28,0 a 29,0	1707	3,1						
29,0 a 30,0	1708	3,0						
30,0 a 31,0	1709	4,6						
31,0 a 32,0	1710	4,8						
32,0 a 33,0	1711	5,2						
33,0 a 34,0	1712	2,7						
34,0 a 35,0	1713	3,3						
35,0 a 36,0	1714	5,8						
36,0 a 37,0	1715	2,6						
37,0 a 38,0	1716	1,9						
38,0 a 39,0	1717	3,3						
39,0 a 40,0	1718	2,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO FATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-028-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1345/75	8,3						16,8
1,0 a 2,0	1346	11,2	8,7	4,5	4,7			54,9
2,0 a 3,0	1347	10,6	7,6	4,3	4,8			57,5
3,0 a 4,0	1348	9,2						67,2
4,0 a 5,0	1349	8,8						72,9
5,0 a 6,0	1350	9,6	9,2	3,6	4,7			78,1
6,0 a 7,0	1351	9,5						73,2
7,0 a 8,0	1352	9,6						74,6
8,0 a 9,0	1353	10,3						74,6
9,0 a 10,0	1354	11,7						75,9
10,0 a 11,0	1355	10,6						76,1
11,0 a 12,0	1356	7,9						66,4
12,0 a 13,0	1357	6,6						90,0
13,0 a 14,0	1358	6,4						90,9
14,0 a 15,0	1359	6,8						80,3
15,0 a 16,0	1360	6,7						77,2
16,0 a 17,0	1361	8,8						87,2

Cont. Furo: 2148-PM-028-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1362/75	7,7						83,7
18,0 a 19,0	1363	10,9						67,4
19,0 a 20,0	1364	10,5						62,8
20,0 a 21,0	1365	12,5						
21,0 a 22,0	1366	13,5						
22,0 a 23,0	1367	10,0						
23,0 a 24,0	1368	10,0						
24,0 a 25,0	1369	13,8						
25,0 a 26,0	1370	15,8						
26,0 a 27,0	1371	16,2	14,9	5,6	4,4			
27,0 a 28,0	1372	15,5	16,5	5,0	4,2			
28,0 a 29,0	1373	14,2	16,5	5,1	4,0			
29,0 a 30,0	1374	16,5	19,1	5,1	3,7			
30,0 a 31,0	1375	15,7	19,1	5,2	3,7			
31,0 a 32,0	1376	12,5	15,7	5,7	4,0			
32,0 a 33,0	1377	7,5						
33,0 a 34,0	1378	11,9	14,9	4,5	3,5			
34,0 a 35,0	1379	14,8	16,3	5,9	4,0			
35,0 a 36,0	1380	14,3	16,8	5,1	4,0			
36,0 a 37,0	1381	14,9	17,9	4,6	3,5			
37,0 a 38,0	1382	13,8	16,3	5,6	3,7			
38,0 a 39,0	1383	15,1	18,8	4,8	4,0			
39,0 a 40,0	1384	12,9	13,7	4,1	4,5			
40,0 a 41,0	1385	14,2	16,5	3,8	4,3			
41,0 a 42,0	1386	14,3	18,2	3,8	4,0			
42,0 a 43,0	1387	15,6	14,6	4,1	4,3			
43,0 a 44,0	1388	19,0	17,9	4,5	3,5			

Cont. Furo: 2148-PM-028-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	1389/75	19,6	28,3	4,6	4,3			
45,0 a 46,0	1390	16,9	18,2	4,6	4,3			
46,0 a 47,0	1391	17,8	29,2	3,8	4,3			
47,0 a 48,0	1392	20,0	23,3	4,3	4,3			
48,0 a 49,0	1393	18,8	22,4	4,1	4,5			
49,0 a 50,0	1394	19,9	24,6	3,2	3,5			
50,0 a 51,0	1395	20,3	25,2	3,2	3,9			
51,0 a 52,0	1396	19,4	23,8	3,3	3,8			
52,0 a 53,0	1397	19,5	20,1	3,1	3,4			
53,0 a 54,0	1398	11,9	15,4	2,0	3,6			
54,0 a 55,0	1399	16,7	20,1	1,8	5,0			
55,0 a 56,0	1400	14,0	17,3	2,3	3,4			
56,0 a 57,0	1401	20,9	27,1	2,8	2,1			
57,0 a 58,0	1402	19,4	24,3	3,0	3,8			
58,0 a 59,0	1403	20,4	25,2	3,3	3,4			
59,0 a 60,0	1404	15,7	19,3	4,1	4,0			
60,0 a 61,0	1405	13,9	18,5	4,1	4,5			
61,0 a 62,0	1406	10,1	19,9	2,3	3,5			
62,0 a 63,0	1407	7,6						
63,0 a 64,0	1408	6,5						
64,0 a 65,0	1409	5,7						
65,0 a 66,0	1410	6,5						
66,0 a 67,0	1411	4,4						
67,0 a 68,0	1412	5,2						
68,0 a 69,0	1413	4,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-029-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1863/75	20,3	19,0	6,6	4,6			
1,0 a 2,0	1864	20,8	20,4	5,9	3,5			
2,0 a 3,0	1865	19,9	20,7	5,1	3,4			
3,0 a 4,0	1866	19,4	21,3	4,6	3,4			
4,0 a 5,0	1867	20,4	22,7	4,3	3,1			
5,0 a 6,0	1868	20,2	22,7	4,8	3,3			
6,0 a 7,0	1869	17,8	17,1	5,1	4,1			
7,0 a 8,0	1870	18,3	22,9	4,8	3,9			
8,0 a 9,0	1871	19,3	23,2	5,3	3,4			
9,0 a 10,0	1872	13,5	15,9	4,3	4,1			
10,0 a 11,0	1873	21,3	26,3	5,1	3,2			
11,0 a 12,0	1874	20,5	25,7	4,8	2,9			
12,0 a 13,0	1875	19,8	23,8	5,1	3,3			
13,0 a 14,0	1876	19,2	22,9	5,1	3,1			
14,0 a 15,0	1877	19,7	24,1	5,3	3,0			
15,0 a 16,0	1878	17,9	19,9	5,9	3,4			
16,0 a 17,0	1879	20,1	23,5	5,1	3,0			
17,0 a 18,0	1880	20,1	21,0	4,8	3,2			

Cont. Furo: 2148-PM-029-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1881/75	20,9	22,9	5,1	3,2			
19,0 a 20,0	1882	21,9	25,2	4,8	2,9			
20,0 a 21,0	1883	21,7	24,9	4,8	2,9			
21,0 a 22,0	1884	21,3	24,3	5,1	2,8			
22,0 a 23,0	1885	20,8	20,7	5,1	2,4			
23,0 a 24,0	1886	14,3	16,5	4,3	3,4			
24,0 a 25,0	1887	18,5	18,2	5,9	3,1			
25,0 a 26,0	1888	20,8	24,3	4,6	2,9			
26,0 a 27,0	1889	23,2	26,6	5,1	2,6			
27,0 a 28,0	1890	19,1	24,3	3,8	3,0			
28,0 a 29,0	1891	17,5	20,4	3,6	3,7			
29,0 a 30,0	1892	23,0	30,2	2,9	2,5			
30,0 a 31,0	1893	20,2	29,4	3,6	3,2			
31,0 a 32,0	1894	21,1	26,0	3,6	3,1			
32,0 a 33,0	1895	19,7	22,7	5,1	3,4			
33,0 a 34,0	1896	21,0	22,4	4,3	3,2			
34,0 a 35,0	1897	23,1	26,9	3,8	2,7			
35,0 a 36,0	1898	22,0	24,9	3,6	2,6			
36,0 a 37,0	1899	23,3	27,4	3,0	3,1			
37,0 a 38,0	1900	19,8	21,3	4,1	3,4			
38,0 a 39,0	1901	19,4	21,5	3,6	3,6			
39,0 a 40,0	1902	19,8	21,3	4,6	3,6			
40,0 a 41,0	1903	20,5	21,8	3,6	3,6			
41,0 a 42,0	1904	20,8	22,1	4,3	3,1			
42,0 a 43,0	1905	16,8	19,3	4,1	3,6			
43,0 a 44,0	1906	17,9	17,6	3,6	3,8			
44,0 a 45,0	1907	17,6	18,2	5,3	3,6			

Cont. Furo: 2148-PM-029-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	1908/75	18,7	19,0	4,1	3,2			
46,0 a 47,0	1909	15,3	15,7	2,8	4,3			
47,0 a 48,0	1910	15,2	14,8	3,4	4,0			
48,0 a 49,0	1911	16,9	16,8	3,8	3,5			
49,0 a 50,0	1912	16,7	17,3	3,6	3,6			
50,0 a 51,0	1913	15,1	20,1	2,8	2,6			
51,0 a 52,0	1914	10,0	12,3	3,2	3,4			
52,0 a 53,0	1915	10,6	12,0	2,3	3,6			
53,0 a 54,0	1916	16,0	17,6	2,8	3,4			
54,0 a 55,0	1917	16,8	19,3	4,4	3,4			
55,0 a 56,0	1918	18,5	18,7	4,6	3,6			
56,0 a 57,0	1919	21,9	23,5	3,3	3,1			
57,0 a 58,0	1920	21,4	24,1	3,6	2,7			
58,0 a 59,0	1921	21,9	23,5	3,8	3,2			
59,0 a 60,0	1922	20,6	22,7	4,8	3,4			
60,0 a 61,0	1923	20,4	19,6	5,6	3,5			
61,0 a 62,0	1924	21,0	22,1	4,6	3,3			
62,0 a 63,0	1925	21,1	22,4	4,6	3,6			
63,0 a 64,0	1926	20,7	21,8	4,1	3,6			
64,0 a 65,0	1927	23,8	27,1	3,6	3,1			
65,0 a 66,0	1928	24,1	26,6	1,9	2,1			
66,0 a 67,0	1929	20,0	22,7	3,8	2,7			
67,0 a 68,0	1930	20,0	20,7	3,3	2,6			
68,0 a 69,0	1931	13,0	24,3	1,5	2,4			
69,0 a 70,0	1932	10,4	21,0	1,0	2,6			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-030-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1414/75	21,3	17,4	7,6	19,2			45,4
1,0 a 2,0	1415	17,2	10,7	6,4	17,7			36,5
2,0 a 3,0	1416	18,2	10,7	7,6	16,1			38,8
3,0 a 4,0	1417	16,5	13,2	4,3	14,8			58,8
4,0 a 5,0	1418	16,4	15,4	3,8	14,5			62,1
5,0 a 6,0	1419	21,5	25,0	4,3	20,7			52,9
6,0 a 7,0	1420	19,6	21,9	4,3	17,7			57,9
7,0 a 8,0	1421	15,2	16,7	5,6	3,7			53,8
8,0 a 9,0	1422	15,3	16,3	5,1	4,0			59,7
9,0 a 10,0	1423	10,9	12,2	4,1	3,7			60,8
10,0 a 11,0	1424	17,1	16,8	4,5	3,9			60,0
11,0 a 12,0	1425	16,2	14,9	5,6	4,2			44,3
12,0 a 13,0	1426	15,1	16,4	3,8	4,5			45,7
13,0 a 14,0	1427	14,7	15,7	4,3	4,0			44,9
14,0 a 15,0	1428	16,2	17,7	1,5	4,4			57,9
15,0 a 16,0	1429	16,7	17,4	3,8	4,1			56,1
16,0 a 17,0	1430	15,7	16,8	3,9	4,0			61,0
17,0 a 18,0	1431	16,8	15,1	5,9	4,5			60,4

Cont. Furo: 2148-PM-030-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1432/75	17,0	15,1	6,1	4,3			62,6
19,0 a 20,0	1433	17,6	17,4	5,9	4,0			64,9
20,0 a 21,0	1434	19,2	21,6	6,6	3,7			
21,0 a 22,0	1435	18,1	14,9	5,8	3,6			
22,0 a 23,0	1436	20,1	20,5	5,3	3,6			
23,0 a 24,0	1437	19,9	19,1	5,6	3,7			
24,0 a 25,0	1438	17,7	16,5	5,7	4,3			
25,0 a 26,0	1439	19,0	16,5	6,4	4,1			
26,0 a 27,0	1440	20,8	17,8	5,7	3,3			
27,0 a 28,0	1441	21,4	26,5	2,5	2,9			
28,0 a 29,0	1442	17,6	12,6	2,0	4,0			
29,0 a 30,0	1443	17,4	17,9	2,5	4,3			
30,0 a 31,0	1444	17,0	17,9	2,7	4,3			
31,0 a 32,0	1445	17,7	19,6	2,1	4,5			
32,0 a 33,0	1446	19,6	21,0	2,1	4,0			
33,0 a 34,0	1447	21,9	26,6	2,7	3,5			
34,0 a 35,0	1448	21,4	25,2	4,4	4,5			
35,0 a 36,0	1449	18,4	22,7	2,9	4,5			
36,0 a 37,0	1450	16,9	20,2					
37,0 a 38,0	1451	19,4	20,1	2,8	2,9			
38,0 a 39,0	1452	18,7	21,5	4,6	4,0			
39,0 a 40,0	1453	18,1	21,5	4,1	3,4			
40,0 a 41,0	1454	18,6	20,4	3,8	3,9			
41,0 a 42,0	1455	18,7	21,8	2,8	2,8			
42,0 a 43,0	1456	16,2	18,2	2,5	3,0			
43,0 a 44,0	1457	17,8	19,6	3,0	3,0			
44,0 a 45,0	1458	18,3	20,1	4,1	3,4			

Cont. Furo: 2148-PM-030-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	1459/75	17,7	20,1	4,3	3,8			
46,0 a 47,0	1460	13,2	29,1	4,1	2,2			
47,0 a 48,0	1461	12,2	33,0	1,0	2,0			
48,0 a 49,0	1462	14,8	31,3	1,3	2,1			
49,0 a 50,50	1463	13,7	32,2	0,8	2,3			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-031-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1251/75	3,3						
1,0 a 2,0	1252	2,9						
2,0 a 3,0	1253	2,0						
3,0 a 4,0	1254	0,9						
4,0 a 5,0	1255	0,5						
5,0 a 6,0	1256	1,1						
6,0 a 7,0	1257	0,9						
7,0 a 8,0	1258	1,5						
8,0 a 9,0	1259	0,8						
9,0 a 10,9	1260	1,4						
10,0 a 11,0	1261	1,0						
11,0 a 12,0	1262	3,1						
12,0 a 13,0	1263	2,2						
13,0 a 14,0	1264	1,7						
14,0 a 15,0	1265	1,3						
15,0 a 16,0	1266	1,8						
16,0 a 17,0	1267	1,9						
17,0 a 18,0	1268	1,9						

Cont. Puro: 2148-PM-031-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1269/75	1,3						
19,0 a 20,0	1270	7,4						
20,0 a 21,0	1271	0,9						
21,0 a 22,0	1272	1,3						
22,0 a 23,0	1273	0,7						
23,0 a 24,0	1274	1,6						
24,0 a 25,0	1275	4,1						
25,0 a 26,0	1276	0,9						
26,0 a 27,0	1277	4,6						
27,0 a 28,0	1278*	6,8						
28,0 a 29,0	1279	5,8						
29,0 a 30,0	1280	1,5						
30,0 a 31,0	1281	5,5						
31,0 a 32,0	1282	3,1						
32,0 a 33,0	1283	2,0						
33,0 a 34,0	1284	1,1						
34,0 a 35,0	1285	1,6						
35,0 a 36,0	1286	1,6						
36,0 a 37,0	1287	1,9						
37,0 a 38,0	1288	0,6						
38,0 a 39,0	1289	3,4						
39,0 a 40,0	1290	4,9						
40,0 a 41,0	1291	5,0						
41,0 a 42,0	1292	5,1						
42,0 a 42,75	1293	3,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-032-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1464/75	1,9						
1,0 a 2,0	1465	1,4						
2,0 a 3,0	1466	1,3						
3,0 a 4,0	1467	0,9						
4,0 a 5,0	1468	1,0						
5,0 a 6,0	1469	0,9						
6,0 a 7,0	1470	1,1						
7,0 a 8,0	1471	3,7						
8,0 a 9,0	1472	2,0						
9,0 a 10,0	1473	1,6						
10,0 a 11,0	1474	1,3						
11,0 a 12,0	1475	2,0						
12,0 a 13,0	1476	5,1						
13,0 a 14,0	1477	2,4						
14,0 a 15,0	1478	3,8						
15,0 a 16,0	1479	2,8						
16,0 a 17,0	1480	6,8						
17,0 a 18,0	1481	1,0						

Cont. Furo: 2148-PM-032-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1482/75	5,8						
19,0 a 20,0	1483	8,0						
20,0 a 21,0	1484	8,1						
21,0 a 22,0	1485	7,0						
22,0 a 23,0	1486	6,8						
23,0 a 24,0	1487	8,5						
24,0 a 25,0	1488	9,4	10,3	3,0	4,2			
25,0 a 26,0	1489	10,3	12,0	3,0	3,6			
26,0 a 27,0	1490	12,8	13,7	4,1	3,6			
27,0 a 28,0	1491	11,2	12,9	6,4	5,6			
28,0 a 29,0	1492	17,7	17,9	3,3	3,9			
29,0 a 30,0	1493	18,4	19,6	4,1	3,6			
30,0 a 31,0	1494	12,5	12,6	5,1	4,6			
31,0 a 32,0	1495	11,9	11,2	4,0	4,8			
32,0 a 33,0	1496	10,8	10,9	4,6	4,8			
33,0 a 34,0	1497	8,0						
34,0 a 35,0	1498	9,1						
35,0 a 36,0	1499	10,4	11,5	3,6	5,1			
36,0 a 37,0	1500	9,8	9,8	4,6	5,6			
37,0 a 38,0	1501	8,0						
38,0 a 39,0	1502	11,2	12,3	4,1	4,3			
39,0 a 40,0	1503	7,7						
40,0 a 41,0	1504	6,9						
41,0 a 42,0	1505	8,4						
42,0 a 43,0	1506	8,2						
43,0 a 44,0	1507	6,3						
44,0 a 45,0	1508	9,5	10,7	5,6	4,8			

Cont. Furo: 2148-PM-032-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	1509/75	11,8	20,5	5,6	4,3			
46,0 a 47,0	1510	12,0	14,0	4,8	4,5			
47,0 a 48,0	1511	6,8						
48,0 a 49,0	1512	6,5						
49,0 a 50,0	1513	10,1	36,5	1,0	1,9			
50,0 a 51,0	1514	7,7						
51,0 a 52,0	1515	6,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-033-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1516/75	13,7	2,4	9,7	6,2			
1,0 a 2,0	1517	15,8	12,6	3,8	3,1			
2,0 a 3,0	1518	15,0	13,1	2,8	3,2			
3,0 a 4,0	1519	16,0	15,1	4,1	4,0			
4,0 a 5,0	1520	11,0	12,3	2,8	3,8			
5,0 a 6,0	1521	5,2						
6,0 a 7,0	1522	10,6	11,7	2,5	4,3			
7,0 a 8,0	1523	10,5	11,5	2,6	4,2			
8,0 a 9,0	1524	13,5	12,3	3,3	3,2			
9,0 a 10,0	1525	12,6	9,8	4,6	3,9			
10,0 a 11,0	1526	12,8	14,5	4,3	4,1			
11,0 a 12,0	1527	11,3	12,6	4,1	4,4			
12,0 a 13,0	1528	11,8	12,9	3,0	4,0			
13,0 a 14,0	1529	11,1	13,7	5,1	4,5			
14,0 a 15,0	1530	13,0	14,0	3,3	4,6			
15,0 a 16,0	1531	12,6	14,0	2,5	3,8			
16,0 a 17,0	1532	9,7	10,9	2,5	4,5			

Cont. Furo: 2148-PM-033-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1533/75	12,7	13,4	3,6	3,6			
18,0 a 19,0	1534	10,7	12,6	3,0	3,4			
19,0 a 20,0	1535	13,7	14,0	4,1	3,9			
20,0 a 21,0	1536	4,3						
21,0 a 22,0	1537	10,8	12,6	3,6	3,6			
22,0 a 23,0	1538	10,7	12,6	3,0	3,6			
23,0 a 24,0	1539	13,8	14,6	5,3	4,0			
24,0 a 25,0	1540	17,4	20,5	3,3	4,3			
25,0 a 26,0	1541	12,0	12,9	5,2	4,3			
26,0 a 27,0	1542	11,7	14,0	5,1	4,8			
27,0 a 28,0	1543	9,5	14,1	5,1	5,0			
28,0 a 29,0	1544	14,3	13,5	5,1	4,0			
29,0 a 30,0	1545	15,7	15,0	4,8	4,3			
30,0 a 31,0	1546	16,6	16,8	5,1	4,6			
31,0 a 32,0	1547	9,1						
32,0 a 33,0	1548	14,7	18,2	4,8	4,0			
33,0 a 34,0	1549	18,1	21,0	4,1	4,0			
34,0 a 35,0	1550	3,2						
35,0 a 36,0	1551	6,5						
36,0 a 37,0	1552	3,8						
37,0 a 38,0	1553	8,8						
38,0 a 39,0	1554	12,5	18,2	5,6	4,3			
39,0 a 40,0	1555	17,8	14,6	4,6	4,3			
40,0 a 41,0	1556	11,7	12,1	5,6	4,4			
41,0 a 42,0	1557	7,5						
42,0 a 43,0	1558	5,7						
43,0 a 44,0	1559	14,2	14,9	4,6	4,0			

Cont. Furo: 2148-PM-033-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	1560/75	10,4	13,5	5,1	4,2			
45,0 a 46,0	1561	11,0	13,2	5,6	4,1			
46,0 a 47,0	1562	6,6						
47,0 a 48,0	1563	19,1	20,5	4,7	3,3			
48,0 a 49,0	1564	18,2	20,5	5,1	4,3			
49,0 a 50,0	1565	14,0	15,1	5,6	4,0			
50,0 a 51,0	1566	17,9	19,2	4,8	4,0			
51,0 a 52,0	1567	15,4	16,3	4,6	3,7			
52,0 a 53,0	1568	11,0	12,6	5,6	4,5			
53,0 a 54,0	1569	10,3	11,2	5,7	4,1			
54,0 a 55,0	1570	11,2	13,7	5,3	4,7			
55,0 a 56,0	1571	9,8	12,2	5,0	4,8			
56,0 a 57,0	1572	10,3	12,6	4,6	4,5			
57,0 a 58,0	1573	11,7	14,0	4,6	4,5			
58,0 a 59,0	1574	8,3						
59,0 a 60,0	1575	10,8	12,1	4,2	4,5			
60,0 a 61,0	1576	9,2						
61,0 a 62,0	1577	10,3	12,9	4,3	4,5			
62,0 a 63,0	1578	10,7	12,2	4,4	4,6			
63,0 a 64,0	1579	14,8	19,9	1,5	4,4			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-034-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1580/75	14,4	14,3	4,0	5,2			
1,0 a 2,0	1581	13,2	14,7	2,9	5,1			
2,0 a 3,0	1582	15,8	19,2	3,9	4,8			
3,0 a 4,0	1583	13,4	14,9	3,7	4,7			
4,0 a 5,0	1584	14,8	16,8	3,8	4,3			
5,0 a 6,0	1585	14,0	15,3	3,2	5,1			
6,0 a 7,0	1586	10,7	11,2	3,8	5,3			
7,0 a 8,0	1587	11,0	12,0	3,7	5,2			
8,0 a 9,0	1588	9,7	11,2	3,7	5,0			
9,0 a 10,0	1589	6,4						
10,0 a 11,0	1590	3,0						
11,0 a 12,0	1591	0,9						
12,0 a 13,0	1592	1,6						
13,0 a 14,0	1593	1,7						
14,0 a 15,0	1594	1,1						
15,0 a 16,0	1595	1,2						
16,0 a 17,0	1596	0,7						

Cont. Furo: 2148-PM-034-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1597/75	0,7						
18,0 a 19,0	1588	0,8						
19,0 a 20,0	1599	0,8						
20,0 a 21,0	1600	0,8						
21,0 a 22,0	1601	0,8						
22,0 a 23,0	1602	0,7						
23,0 a 24,0	1603	0,7						
24,0 a 25,0	1604	0,8						
25,0 a 26,0	1605	1,6						
26,0 a 27,0	1606	2,3						
27,0 a 28,0	1607	2,5						
28,0 a 29,0	1608	2,2						
29,0 a 30,0	1609	1,8						
30,0 a 31,0	1610	2,7						
31,0 a 32,0	1611	2,8						
32,0 a 33,0	1612	2,1						
33,0 a 34,0	1613	2,2						
34,0 a 35,0	1614	2,2						
35,0 a 36,0	1615	2,4						
36,0 a 27,0	1616	3,2						
37,0 a 38,0	1617	3,0						
38,0 a 39,0	1618	3,8						
39,0 a 40,0	1619	3,6						
40,0 a 41,0	1620	3,0						
41,0 a 42,0	1621	3,3						
42,0 a 43,0	1622	3,2						
43,0 a 44,0	1623	3,1						
44,0 a 45,0	1624	3,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-035-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1625/75	12,1	4,8	6,9	5,9			
1,0 a 2,0	1626	15,4	12,3	3,8	4,3			
2,0 a 3,0	1627	7,0						
3,0 a 4,0	1628	10,0	10,9	2,9	4,0			
4,0 a 5,0	1629	13,4	15,7	3,7	4,0			
5,0 a 6,0	1630	10,1	12,2	3,8	4,3			
6,0 a 7,0	1631	12,1	13,5	4,3	4,5			
7,0 a 8,0	1632	12,4	11,8	3,6	5,1			
8,0 a 9,0	1633	9,8	10,4	5,9	5,4			
9,0 a 10,0	1634	8,0						
10,0 a 11,0	1635	9,5	15,4	3,3	4,8			
11,0 a 12,0	1636	12,0	12,8	4,5	4,8			
12,0 a 13,0	1637	12,0	14,5	4,8	5,4			
13,0 a 14,0	1638	11,5	13,1	5,3	5,2			
14,0 a 15,0	1639	10,2	9,5	4,6	3,4			
15,0 a 16,0	1640	12,0	13,1	5,1	4,9			
16,0 a 17,0	1641	10,4	12,9	4,6	5,4			

Cont. Furo: 2148-PM-035-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1642/75	10,6	12,9	3,8	5,4			
18,0 a 19,0	1643	10,2	12,0	5,3	5,8			
19,0 a 20,0	1644	11,1	12,0	4,6	5,6			
20,0 a 21,0	1645	12,7	14,3	6,1	5,5			
21,0 a 22,0	1646	15,1	17,1	6,1	5,4			
22,0 a 23,0	1647	14,5	17,9	5,6	4,8			
23,0 a 24,0	1648	8,5						
24,0 a 25,0	1649	15,2	17,7	6,4	4,8			
25,0 a 26,0	1650	16,6	17,7	5,9	4,0			
26,0 a 27,0	1651	16,2	21,0	5,9	4,0			
27,0 a 28,0	1652	16,2	18,9	6,1	4,7			
28,0 a 29,0	1653	13,8	16,3	6,4	4,8			
29,0 a 30,0	1654	11,6	14,6	5,3	4,6			
30,0 a 31,0	1655	11,7	15,4	5,6	4,8			
31,0 a 32,0	1656	13,2	15,1	5,3	4,8			
32,0 a 33,0	1657	13,3	16,3	5,5	4,8			
33,0 a 34,0	1658	14,0	12,6	5,8	4,3			
34,0 a 35,0	1659	13,8	15,1	5,6	4,8			
35,0 a 36,0	1660	14,1	13,1	5,0	4,6			
36,0 a 37,0	1661	14,4	17,1	5,3	4,8			
37,0 a 38,0	1662	13,1	17,2	6,3	4,9			
38,0 a 39,0	1663	14,6	17,1	6,4	4,6			
39,0 a 40,0	1664	13,1	18,5	6,4	4,8			
40,0 a 41,0	1665	11,7	14,9	5,6	5,4			
41,0 a 42,0	1666	10,9	14,3	5,9	5,1			
42,0 a 43,0	1667	13,3	15,0	5,9	4,5			
43,0 a 44,0	1668	15,8	18,5	6,4	4,7			

Cont. Furo: 2148-PM-035-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	1669/75	15,0	18,2	5,1	4,8			
45,0 a 46,0	1670	12,9	15,4	4,8	4,7			
46,0 a 47,0	1671	10,7	13,1	4,6	5,1			
47,0 a 48,0	1672							
48,0 a 49,0	1673	14,0	25,5	1,3	2,8			
49,0 a 50,0	1674	9,6	35,0	0,5	2,0			
50,0 a 51,0	1675	13,8	30,2	1,0	2,3			
51,0 a 52,0	1676	10,7	32,4	0,8	2,1			
52,0 a 53,0	1677	11,0	27,7	1,3	2,4			
53,0 a 54,0	1678	10,9	28,2	1,3	2,6			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-036-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1719/75	3,8						
1,0 a 2,0	1720	1,7						
2,0 a 3,0	1721	1,4						
3,0 a 4,0	1722	7,5						
4,0 a 5,0	1723	3,9						
5,0 a 6,0	1724	2,5						
6,0 a 7,0	1725	4,7						
7,0 a 8,0	1726	3,4						
8,0 a 9,0	1727	5,0						
9,0 a 10,0	1728	6,2						
10,0 a 11,0	1729	5,8						
11,0 a 12,0	1730	5,5						
12,0 a 13,0	1731	2,1						
13,0 a 14,0	1732	3,4						
14,0 a 15,0	1733	4,4						
15,0 a 16,0	1734	4,3						
16,0 a 17,0	1735	3,4						

Cont. Furo: 2148-PM-036-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1736/75	3,0						
18,0 a 19,0	1737	2,8						
19,0 a 20,0	1738	3,8						
20,0 a 21,0	1739	4,0						
21,0 a 22,0	1740	3,7						
22,0 a 23,0	1741	2,4						
23,0 a 24,0	1742	1,7						
24,0 a 25,0	1743	1,0						
25,0 a 26,0	1744	1,5						
26,0 a 27,0	1745	2,0						
27,0 a 28,0	1746	2,1						
28,0 a 29,0	1747	1,3						
29,0 a 30,0	1748	8,4						
30,0 a 31,0	1749	5,8						
31,0 a 32,0	1750	6,0						
32,0 a 33,0	1751	6,5						
33,0 a 34,0	1752	7,4						
34,0 a 35,0	1753	6,2						
35,0 a 36,30	1754	2,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO FATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-037-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1755/75	5,6						
1,0 a 2,0	1756	4,0						
2,0 a 3,0	1757	7,7						
3,0 a 4,0	1758	6,0						
4,0 a 5,0	1759	4,6						
5,0 a 6,0	1760	7,5						
6,0 a 7,0	1761	7,3						
7,0 a 8,0	1762	8,7						
8,0 a 9,0	1763	7,8						
9,0 a 10,0	1764	7,4						
10,0 a 11,0	1765	7,8						
11,0 a 12,0	1766	7,2						
12,0 a 13,0	1767	18,0	18,2	4,3	3,1			
13,0 a 14,0	1768	18,3	18,2	3,3	3,5			
14,0 a 15,0	1769	21,3	23,2	4,6	3,6			
15,0 a 16,0	1770	20,3	21,0	4,6	3,6			
16,0 a 17,0	1771	13,4	14,0	6,7	4,7			

Cont. Furo: 2148-PM-037-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1772/75	16,5	16,8	5,6	4,3			
18,0 a 19,0	1773	10,1	13,1	3,8	4,9			
19,0 a 20,0	1774	11,3	14,0	2,3	4,4			
20,0 a 21,0	1775	10,2	11,7	3,3	4,5			
21,0 a 22,0	1776	12,9	13,7	3,6	4,3			
22,0 a 23,0	1777	14,1	16,2	3,8	4,5			
23,0 a 24,0	1778	16,0	18,2	4,1	3,8			
24,0 a 25,0	1779	13,6	14,5	5,6	4,2			
25,0 a 26,0	1780	10,7	12,9	5,6	4,3			
26,0 a 27,0	1781	15,0	17,6	5,6	3,6			
27,0 a 28,0	1782	13,8	15,1	3,8	4,2			
28,0 a 29,0	1783	15,1	16,8	6,4	3,9			
29,0 a 30,0	1784	15,7	17,6	4,3	4,1			
30,0 a 31,0	1785	18,2	19,9	4,3	5,4			
31,0 a 32,0	1786	11,4	13,7	3,6	4,6			
32,0 a 33,0	1787	16,9	18,5	3,6	4,2			
33,0 a 34,0	1788	21,4	27,7	3,3	3,2			
34,0 a 35,0	1789	15,7	18,2	4,3	3,8			
35,0 a 36,0	1790	17,7	19,6	3,3	3,8			
36,0 a 37,0	1791	15,4	17,1	3,0	4,4			
37,0 a 38,0	1792	13,9	15,9	4,8	4,8			
38,0 a 39,0	1793	11,6	17,1	3,3	4,7			
39,0 a 40,0	1794	15,4	20,4	4,8	4,1			
40,0 a 41,0	1795	12,4	18,2	5,6	4,8			
41,0 a 42,0	1796	14,8	20,0	4,1	4,2			
42,0 a 43,0	1797	13,5	14,3	4,6	4,5			
43,0 a 44,0	1798	10,4	12,9	4,6	4,8			

Cont. Furo: 2148-PM-037-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	1799/75	19,4	21,8	4,1	3,9			
45,0 a 46,0	1800	19,1	22,4	5,1	3,9			
46,0 a 47,0	1801	16,4	17,9	4,8	4,3			
47,0 a 48,0	1802	8,6						
48,0 a 49,0	1803	14,1						
49,0 a 50,0	1804	4,2						
50,0 a 51,0	1805	5,2						
51,0 a 52,0	1806	4,1						
52,0 a 53,0	1807	9,4	12,0	4,8	4,9			
53,0 a 54,0	1808	13,9	16,8	4,3	4,1			
54,0 a 55,0	1809	17,3	17,9	4,8	3,7			
55,0 a 56,0	1810	14,4	26,6	1,5	2,7			
56,0 a 57,0	1811	12,5	22,1	2,8	3,2			
57,0 a 58,0	1812	10,9	27,1	0,5	2,6			
58,0 a 59,0	1813	9,8	24,9	1,8	2,8			
59,0 a 60,0	1814	10,2	24,0	1,5	2,4			
60,0 a 61,40	1815	12,3	23,2	2,8	2,9			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-038-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1933/75	14,9	2,8	13,5	8,9			
1,0 a 2,0	1934	15,7	9,2	8,9	8,7			
2,0 a 3,0	1935	17,1	11,2	6,9	7,4			
3,0 a 4,0	1936	16,3	13,1	6,7	7,4			
4,0 a 5,0	1937	15,4	11,7	7,1	7,4			
5,0 a 6,0	1938	14,7	14,8	5,1	5,8			
6,0 a 7,0	1939	15,7	15,4	5,9	5,0			
7,0 a 8,0	1940	16,7	17,1	4,0	4,6			
8,0 a 9,0	1941	16,9	19,3	3,8	5,2			
9,0 a 10,0	1942	14,8	17,3	4,6	5,0			
10,0 a 11,0	1943	12,3	16,8	4,6	5,1			
11,0 a 12,0	1944	11,0	13,4	3,6	5,0			
12,0 a 13,0	1945	13,4	15,9	4,1	5,1			
13,0 a 14,0	1946	14,5	18,2	3,6	4,8			
14,0 a 15,0	1947	13,5	15,1	2,6	5,6			
15,0 a 16,0	1948	14,0	17,3	3,8	5,4			
16,0 a 17,0	1949	15,7	17,3	4,6	4,4			

Cont. Turo: 2148-PM-038-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1950/75	16,7	19,0	4,3	4,4			
18,0 a 19,0	1951	16,0	19,6	4,1	4,2			
19,0 a 20,0	1952	15,8	18,7	4,1	4,8			
20,0 a 21,0	1953	20,0	22,4	4,8	3,9			
21,0 a 22,0	1954	18,7	20,4	4,3	4,0			
22,0 a 23,0	1955	19,8	22,7	3,6	3,8			
23,0 a 24,0	1956	16,2	19,6	4,3	4,3			
24,0 a 25,0	1957	17,4	20,1	4,1	4,5			
25,0 a 26,0	1958	15,7	17,3	4,6	4,5			
26,0 a 27,0	1959	18,1	19,6	4,1	4,5			
27,0 a 28,0	1960	17,9	20,1	2,8	4,4			
28,0 a 29,0	1961	18,6	19,6	3,3	3,9			
29,0 a 30,0	1962	16,2	19,9	2,5	3,1			
30,0 a 31,0	1963	13,4	31,6	0,5	1,8			
31,0 a 32,0	1964	16,2	30,5	0,2	2,3			
32,0 a 33,0	1965	13,2	39,2	0,2	1,9			
33,0 a 34,0	1966	14,6	29,1	0,5	1,7			
34,0 a 35,0	1967	15,3	27,4	2,0	1,8			
35,0 a 36,0	1968	15,4	25,7	1,0	1,9			
36,0 a 37,10	1969	14,3	26,6	0,8	1,9			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO FATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-039-MG

OBSERVAÇÃO: ** Dosado por via úmida.

* Fosforo solúvel dosado por colorimetria.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1816/75	5,9						0,8
1,0 a 2,0	1817	4,4						0,0
2,0 a 3,0	1818	3,8						1,3
3,0 a 4,0	1819	2,8						3,4
4,0 a 5,0	1820	2,1						0,0
5,0 a 6,0	1821	2,3						7,3
6,0 a 7,0	1822	2,6						2,1
7,0 a 8,0	1823	2,3						2,6
8,0 a 9,0	1824	2,8						11,7
9,0 a 10,0	1825	2,3						0,0
10,0 a 11,0	1826	1,6						0,0
11,0 a 12,0	1827	1,4						8,2
12,0 a 13,0	1828	2,0						2,9
13,0 a 14,0	1829	2,1						2,6
14,0 a 15,0	1830	2,9						13,4
15,0 a 16,0	1831	5,2						42,2
16,0 a 17,0	1832	6,7						57,8

Cont. Furo: 2148-PM-039-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1833/75	6,9						60,7
18,0 a 19,0	1834	7,2						64,0
19,0 a 20,0	1835	6,7						69,5
20,0 a 21,0	1836	7,5						
21,0 a 22,0	1837	7,6						
22,0 a 23,0	1838	5,5						
23,0 a 24,0	1839	7,1						
24,0 a 25,0	1840	7,3						
25,0 a 26,0	1841	8,8						
26,0 a 27,0	1842	8,8						
27,0 a 28,0	1843	13,5	14,3	5,6	5,0			
28,0 a 29,0	1844	9,4	10,6	3,6	5,1			
29,0 a 30,0	1845	12,9	12,6	6,1	4,9			
30,0 a 31,0	1846	6,2						
31,0 a 32,0	1847	5,8						
32,0 a 33,0	1848	7,4						
33,0 a 34,0	1849	5,7						
34,0 a 35,0	1850	7,9						
35,0 a 36,0	1851	6,0						
36,0 a 37,0	1852	9,1						
37,0 a 38,0	1853	11,1	12,3	3,6	5,4			
38,0 a 39,0	1854	10,4	12,9	5,1	4,9			
39,0 a 40,0	1855	11,1	12,0	5,6	4,6			
40,0 a 41,0	1856	12,4	15,4	4,8	4,4			
41,0 a 42,0	1857	14,8	15,4	5,6	4,5			
42,0 a 43,0	1858	7,7						
43,0 a 44,0	1859	8,7						

Cont. Furo:

2148-PM-039-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-040-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	1970/75	17,3	13,1	4,2	5,3			
1,0 a 2,0	1971	18,2	12,3	4,1	5,1			
2,0 a 3,0	1972	18,3	12,6	8,7	4,1			
3,0 a 4,0	1973	16,9	14,8	4,3	4,6			
4,0 a 5,0	1974	14,3	13,7	3,0	4,8			
5,0 a 6,0	1975	15,4	16,2	2,4	3,6			
6,0 a 7,0	1976	15,3	14,3	3,6	3,4			
7,0 a 8,0	1977	19,7	16,5	3,8	2,9			
8,0 a 9,0	1978	12,5	11,7	3,8	4,1			
9,0 a 10,0	1979	11,7	11,5	2,8	4,5			
10,0 a 11,0	1980	12,8	13,4	2,8	4,6			
11,0 a 12,0	1981	13,5	13,4	2,8	3,9			
12,0 a 13,0	1982	15,7	15,1	3,3	3,9			
13,0 a 14,0	1983	13,0	12,3	3,6	4,5			
14,0 a 15,0	1984	14,8	14,0	3,6	4,5			
15,0 a 16,0	1985	9,7	10,3	2,3	3,8			
16,0 a 17,0	1986	13,3	12,6	3,0	3,2			

Cont. Furo: 2148-PM-040-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	1987/75	11,7	11,5	3,0	3,4			
18,0 a 19,0	1988	11,0	11,5	2,4	4,3			
19,0 a 20,0	1989	16,3	14,0	3,6	3,4			
20,0 a 21,0	1990	14,0	12,3	3,6	4,0			
21,0 a 22,0	1991	15,5	16,8	3,0	3,9			
22,0 a 23,0	1992	11,9	13,7	3,0	4,8			
23,0 a 24,0	1993	12,2	13,7	5,1	4,7			
24,0 a 25,0	1994	14,4	16,2	3,0	3,9			
25,0 a 26,0	1995	11,6	13,7	1,5	3,9			
26,0 a 27,0	1996	10,5	13,1	2,7	4,3			
27,0 a 28,0	1997	3,5						
28,0 a 29,0	1998	5,2						
29,0 a 30,0	1999	5,5						
30,0 a 31,0	2000	3,3						
31,0 a 32,0	2001	7,4						
32,0 a 33,0	2002	9,4	8,9	1,4	4,8			
33,0 a 34,0	2003	11,5	10,6	1,8	5,0			
34,0 a 35,0	2004	10,1	8,9	2,0	5,9			
35,0 a 36,0	2005	6,9						
36,0 a 37,0	2006	4,5						
37,0 a 38,0	2007	4,6						
38,0 a 39,0	2008	1,9						
39,0 a 40,0	2009	2,4						
40,0 a 41,0	2010	4,0						
41,0 a 42,0	2011	4,9						
42,0 a 43,0	2012	4,8						
43,0 a 44,0	2013	2,8						

Cont. Furo: 2148-PM-040-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	2014/75	2,0						
45,0 a 46,0	2015	3,2						
46,0 a 47,0	2016	3,2						
47,0 a 48,0	2017	2,7						
48,0 a 49,0	2018	3,1						
49,0 a 50,0	2019	3,2						
50,0 a 51,0	2020	2,7						
51,0 a 52,0	2021	2,5						
52,0 a 53,0	2022	2,7						
53,0 a 54,0	2023	2,9						
54,0 a 55,0	2024	7,1						
55,0 a 56,0	2025	7,8						
56,0 a 57,0	2026	4,6						
57,0 a 58,0	2027	2,4						
58,0 a 59,0	2028	2,5						
59,0 a 60,0	2029	2,0						
60,0 a 61,0	2030	3,1						
61,0 a 62,0	2031	3,2						
62,0 a 63,0	2032	2,2						
63,0 a 64,0	2033	3,0						
64,0 a 65,0	2034	1,7						
65,0 a 66,0	2035	2,3						
66,0 a 67,0	2036	2,6						
67,0 a 68,0	2037	2,7						
68,0 a 69,0	2038	3,2						
69,0 a 70,0	2039	2,4						
70,0 a 71,0	2040	3,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-041-MG

OBSERVAÇÃO: * Fosforo solúvel dosado por colorimetria.

** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	**CaO	**Al ₂ O ₃	***Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2578/75	17,5	4,5	1,6	2,6			0,1
1,0 a 2,0	2579	24,0	26,3	9,8	4,9			59,7
2,0 a 3,0	2580	24,5	24,6	10,9	5,2			60,8
3,0 a 4,0	2581	21,3	24,1	7,6	5,0			73,9
4,0 a 5,0	2582	22,5	32,5	6,9	3,6			56,4
5,0 a 6,0	2583	24,6	36,4	4,8	2,9			55,4
6,0 a 7,0	2584	23,2	33,6	4,2	2,9			59,1
7,0 a 8,0	2585	20,4	30,2	1,5	3,3			63,0
8,0 a 9,0	2586	22,4	31,3	7,1	3,4			66,3
9,0 a 10,0	2587	22,1	31,3	4,1	3,0			65,7
10,0 a 11,0	2588	21,0	31,3	4,3	3,4			58,6
11,0 a 12,0	2589	21,8	33,6	3,0	2,9			65,8
12,0 a 13,0	2590	18,8	26,3	3,6	3,2			62,3
13,0 a 14,0	2591	16,5	21,8	3,8	2,7			73,8
14,0 a 15,0	2592	20,0	28,0	4,3	2,7			62,6
15,0 a 16,0	2593	18,1	21,8	5,7	2,9			59,8
16,0 a 17,0	2594	17,7	18,2	4,6	3,4			60,9
17,0 a 18,0	2595	19,1	21,8	4,3	2,9			69,1

Cont. Furo: 2148-PM-041-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2596/75	19,4	19,9	5,9	3,4			65,2
19,0 a 20,0	2597	16,6	21,0	4,3	3,4			81,4
20,0 a 21,0	2598	18,4	22,4	4,8	3,4			
21,0 a 22,0	2599	17,4	20,8	3,8	3,5			
22,0 a 23,0	2600	19,2	22,4	3,7	2,9			
23,0 a 24,0	2601	19,8	22,7	4,8	3,1			
24,0 a 25,0	2602	18,8	22,4	2,2	1,6			
25,0 a 26,0	2603	16,7	18,7	3,0	3,1			
26,0 a 27,0	2604	15,8	17,1	2,9	3,9			
27,0 a 28,0	2605	15,6	18,7	3,7	3,4			
28,0 a 29,0	2606	18,0	21,0	4,3	3,3			
29,0 a 30,0	2607	14,3	21,3	4,6	4,0			
30,0 a 31,0	2608	14,9	16,8	4,6	3,6			
31,0 a 32,0	2609	18,1	20,7	4,6	3,4			
32,0 a 33,0	2610	17,8	22,4	3,9	3,6			
33,0 a 34,0	2611	15,6	17,1	3,0	3,4			
34,0 a 35,0	2612	14,0	15,1	3,8	3,4			
35,0 a 36,0	2613	11,3	12,6	3,2	4,1			
36,0 a 27,0	2614	14,2	17,3	3,3	4,0			
37,0 a 38,0	2615	16,4	17,9	3,6	3,7			
38,0 a 39,0	2616	16,7	19,3	3,2	3,1			
39,0 a 40,0	2617	14,7	17,3	3,2	3,7			
40,0 a 41,0	2618	16,5	17,1	3,3	3,4			
41,0 a 42,0	2619	18,1	19,0	4,8	3,9			
42,0 a 43,0	2620	15,4	18,5	2,8	3,3			
43,0 a 44,0	2621	14,3	16,2	3,3	3,4			
44,0 a 45,0	2622	15,9	18,5	2,8	3,1			

Cont. Furo: 2148-FM-041-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	2627/75	15,5						
46,0 a 47,0	2624	12,1						
47,0 a 48,0	2625	8,8						
48,0 a 49,0	2626	12,0						
49,0 a 50,0	2627	10,4						
50,0 a 51,0	2628,	12,6						
51,0 a 52,0	2629	13,6						
52,0 a 53,0	2630	9,0						
53,0 a 54,0	2631	10,4						
54,0 a 55,0	2632	5,4						
55,0 a 56,0	2633	7,6						
56,0 a 57,0	2634	6,2						
57,0 a 58,0	2635	2,6						
58,0 a 59,0	2636	2,9						
59,0 a 60,0	2637	4,5						
60,0 a 61,0	2638	5,4						
61,0 a 62,0	2639	4,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PI-042-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO ^{***}	Al ₂ O ₃ ^{**}	Fe ₂ O ₃ ^{***}	F	CO ₂	
0,0 a 1,0	2041/75	8,1						
1,0 a 2,0	2042	8,1						
2,0 a 3,0	2043	7,0						
3,0 a 4,0	2044	13,2	10,6	6,9	7,3			
4,0 a 5,0	2045	18,0	17,1	5,9	6,4			
5,0 a 6,0	2046	19,2	17,9	4,7	5,9			
6,0 a 7,0	2047	13,4	15,4	4,8	6,4			
7,0 a 8,0	2048	16,8	14,8	5,6	6,1			
8,0 a 9,0	2049	16,4	16,8	4,1	5,7			
9,0 a 10,0	2050	14,6	18,7	4,2	5,4			
10,0 a 11,0	2051	17,2	16,5	3,8	5,5			
11,0 a 12,0	2052	16,8	17,3	3,8	4,9			
12,0 a 13,0	2053	17,2	18,2	3,8	4,6			
13,0 a 14,0	2054	15,2	18,5	4,1	4,5			
14,0 a 15,0	2055	16,2	17,9	3,8	4,3			
15,0 a 16,0	2056	15,2	17,6	3,3	4,1			
16,0 a 17,0	2057	14,6	20,4	4,7	4,5			
17,0 a 18,0	2058	17,2	18,2	4,3	4,1			

Cont. Furo: 21.8-PI-0.2-15G

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2059/75	16,8	16,5	5,1	4,7			
19,0 a 20,0	2060	14,3	16,2	2,5	4,8			
20,0 a 21,0	2061	16,0	17,3	3,8	4,2			
21,0 a 22,0	2062	16,0	17,6	3,8	4,0			
22,0 a 23,0	2063	15,9	16,8	3,7	3,7			
23,0 a 24,0	2064	17,4	20,1	3,8	3,5			
24,0 a 25,0	2065	13,2	13,7	2,2	4,2			
25,0 a 26,0	2066	14,0	9,8	3,4	5,1			
26,0 a 27,0	2067	15,2	14,0	4,1	4,2			
27,0 a 28,0	2068	13,8	16,8	3,7	4,9			
28,0 a 29,0	2059	15,1	19,3	4,8	5,1			
29,0 a 30,0	2070	11,8	12,6	4,3	5,1			
30,0 a 31,0	2071	12,1	16,5	5,1	4,3			
31,0 a 32,0	2072	9,5	11,5	5,5	5,0			
32,0 a 33,0	2073	11,2	12,3	3,6	4,5			
33,0 a 34,0	2074	11,1	12,6	5,1	4,9			
34,0 a 35,0	2075	12,2	17,3	4,8	5,9			
35,0 a 36,0	2076	9,9	12,6	3,8	6,2			
36,0 a 37,0	2077	9,7	10,3	3,4	4,8			
37,0 a 38,0	2078	9,6	10,6	3,0	4,8			
38,0 a 39,0	2079	9,3	9,8	3,4	5,1			
39,0 a 40,0	2080	8,6						
40,0 a 41,0	2081	10,5	11,7	4,2	4,8			
41,0 a 42,0	2082	9,9	12,9	4,6	4,3			
42,0 a 43,0	2083	11,8	12,6	4,2	4,4			
43,0 a 44,0	2084	10,4	11,2	3,9	4,8			
44,0 a 45,0	2085	12,0	13,4	3,9	4,4			

Cont. Furo: 2148-FM-042-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	2086/75	11,5	14,0	4,1	4,2			
46,0 a 47,0	2087	12,8	18,2	4,1	5,1			
47,0 a 48,0	2088	11,4	16,2	3,6	5,2			
48,0 a 49,0	2089	12,0	16,8	3,9	5,1			
49,0 a 50,0	2090	13,5	19,6	2,8	4,6			
50,0 a 51,0	2091	15,6	20,7	3,8	4,4			
51,0 a 52,0	2092	15,9	19,0	3,8	4,1			
52,0 a 53,0	2093	14,0	17,9	4,3	4,5			
53,0 a 54,0	2094	14,8	17,9	3,9	4,1			
54,0 a 55,0	2095	16,2	18,7	3,8	4,5			
55,0 a 56,0	2096	16,2	19,0	3,4	4,5			
56,0 a 57,0	2097	14,4	18,2	2,9	4,6			
57,0 a 58,0	2098	12,9	22,9	2,8	3,9			
58,0 a 59,0	2099	7,4						
59,0 a 60,0	2100	7,0						
60,0 a 61,0	2101	6,3						
61,0 a 62,65	2102	7,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-043-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2103/75	2,2						
1,0 a 2,0	2104	2,2						
2,0 a 3,0	2105	1,1						
3,0 a 4,0	2106	0,4						
4,0 a 5,0	2107	0,4						
5,0 a 6,0	2108	0,5						
6,0 a 7,0	2109	1,3						
7,0 a 8,0	2110	0,5						
8,0 a 9,0	2111	0,3						
9,0 a 10,0	2112	0,4						
10,0 a 11,0	2113	0,5						
11,0 a 12,0	2114	0,4						
12,0 a 13,0	2115	0,7						
13,0 a 14,0	2116	0,5						
14,0 a 15,0	2117	0,3						
15,0 a 16,0	2118	1,0						
16,0 a 17,0	2119	4,9						
17,0 a 18,0	2120	0,6						

Cont. Furo: 2148-PN-043-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2121/75	2,1						
19,0 a 20,0	2122	0,9						
20,0 a 21,0	2123	2,4						
21,0 a 22,0	2124	2,8						
22,0 a 23,0	2125	1,8						
23,0 a 24,0	2126	1,6						
24,0 a 25,0	2127	8,9						
25,0 a 26,0	2128	8,6						
26,0 a 27,0	2129	5,1						
27,0 a 28,0	2130	5,8						
28,0 a 29,0	2131	3,1						
29,0 a 30,0	2132	3,3						
30,0 a 31,0	2133	10,4	15,4	2,8	5,1			
31,0 a 32,0	2134	3,7						
32,0 a 33,0	2135	1,8						
33,0 a 34,0	2136	1,8						
34,0 a 35,0	2137	0,6						
35,0 a 36,0	2138	0,8						
36,0 a 37,0	2139	1,1						
37,0 a 38,0	2140	0,5						
38,0 a 39,0	2141	0,5						
39,0 a 40,0	2142	1,0						
40,0 a 41,0	2143	2,8						
41,0 a 42,0	2144	2,4						
42,0 a 43,0	2145	1,3						
43,0 a 44,0	2146	1,2						
44,0 a 45,0	2147	0,9						

Cont. Furo: 2148-PM-043-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	2148/75	2,1						
46,0 a 47,0	2149	1,2						
47,0 a 48,0	2150	1,2						
48,0 a 49,0	2151	0,5						
49,0 a 50,0	2152	0,6						
50,0 a 51,35	2153	3,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-044-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2154/75	3,2						
1,0 a 2,0	2155	3,3						
2,0 a 3,0	2156	5,4						
3,0 a 4,0	2157	10,5	10,9	1,5	5,0			
4,0 a 5,0	2158	12,2	14,3	2,5	5,3			
5,0 a 6,0	2159	10,8	12,6	2,5	5,6			
6,0 a 7,0	2160	4,5						
7,0 a 8,0	2161	2,9						
8,0 a 9,0	2162	6,4						
9,0 a 10,0	2163	6,0						
10,0 a 11,0	2164	2,9						
11,0 a 12,0	2165	3,0						
12,0 a 13,0	2166	3,8						
13,0 a 14,0	2167	7,8						
14,0 a 15,0	2168	10,5	10,3	2,1	5,5			
15,0 a 16,0	2169	12,3	14,3	2,3	5,3			
16,0 a 17,0	2170	11,3	13,1	3,2	5,4			
17,0 a 18,0	2171	10,4	12,3	3,3	5,1			

Cont. Furo: 2143-PN-044-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2172/75	9,7	10,6	2,3	6,1			
19,0 a 20,0	2173	5,6						
20,0 a 21,0	2174	3,8						
21,0 a 22,0	2175	5,3						
22,0 a 23,0	2176	4,3						
23,0 a 24,0	2177	2,1						
24,0 a 25,0	2178	4,0						
25,0 a 26,0	2179	8,0						
26,0 a 27,0	2180	3,5						
27,0 a 28,0	2181	5,9						
28,0 a 29,0	2182	4,5						
29,0 a 30,0	2183	8,8						
30,0 a 31,0	2184	4,0						
31,0 a 32,0	2185	2,4						
32,0 a 33,0	2186	1,1						
33,0 a 34,0	2187	1,0						
34,0 a 35,0	2188	3,7						
35,0 a 36,0	2189	4,0						
36,0 a 37,0	2190	4,9						
37,0 a 38,0	2191	1,5						
38,0 a 39,0	2192	2,6						
39,0 a 40,0	2193	0,8						
40,0 a 41,5	2194	1,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-045-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2640/75	8,3						
1,0 a 2,0	2641	15,8	11,2	5,9	6,1			
2,0 a 3,0	2642	15,8	14,0	4,8	6,4			
3,0 a 4,0	2643	8,1						
4,0 a 5,0	2644	7,4						
5,0 a 6,0	2645	13,0	15,4	4,6	4,7			
6,0 a 7,0	2646	11,7	12,6	4,1	4,9			
7,0 a 8,0	2647	9,5	10,3	4,8	4,6			
8,0 a 9,0	2648	10,8	11,7	4,6	5,3			
9,0 a 10,0	2649	4,0						
10,0 a 11,0	2650	9,5	12,0	5,7	3,7			
11,0 a 12,0	2651	8,5						
12,0 a 13,0	2652	12,9	15,1	4,1	4,5			
13,0 a 14,0	2653	12,2	14,5	5,3	4,7			
14,0 a 15,0	2654	10,3	11,7	4,8	5,3			
15,0 a 16,0	2655	12,3	14,0	5,6	5,5			
16,0 a 17,0	2656	13,8	16,8	3,7	4,7			

Cont. Furo: 2148-PM-045-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	2657/75	10,6	13,4	3,0	3,7			
18,0 a 19,0	2658	10,5	13,7	4,6	4,7			
19,0 a 20,0	2659	10,9	15,1	3,8	3,9			
20,0 a 21,0	2660	12,0	15,4	3,8	4,3			
21,0 a 22,0	2661	15,0	17,3	3,4	3,4			
22,0 a 23,0	2662	14,0	16,2	3,6	3,7			
23,0 a 24,0	2663	13,9	15,7	3,3	4,3			
24,0 a 25,0	2664	11,3	13,4	2,3	4,3			
25,0 a 26,0	2665	15,1	16,2	4,8	4,8			
26,0 a 27,0	2666	15,2	14,5	4,1	4,3			
27,0 a 28,0	2667	12,9	13,7	3,3	3,7			
28,0 a 29,0	2668	13,0	14,0	3,6	4,6			
29,0 a 30,0	2669	12,0	14,3	3,0	4,0			
30,0 a 31,0	2670	13,2	15,7	3,8	4,6			
31,0 a 32,0	2671	13,9	15,7	2,5	4,3			
32,0 a 33,0	2672	16,0	16,2	4,3	4,3			
33,0 a 34,0	2673	13,5	14,5	3,6	4,3			
34,0 a 35,0	2674	17,2	15,7	4,4	4,3			
35,0 a 36,0	2675	16,4	17,3	4,8	4,0			
36,0 a 37,0	2676	20,4	17,1	3,6	2,9			
37,0 a 38,0	2677	20,0	23,8	2,3	2,4			
38,0 a 39,0	2678	18,2	19,0	3,8	3,4			
39,0 a 40,0	2679	21,2	26,0	4,6	3,4			
40,0 a 41,0	2680	22,1	26,6	4,8	2,9			
41,0 a 42,0	2681	21,6	28,0	3,6	2,6			
42,0 a 43,0	2682	20,0	25,6	4,3	3,1			
43,0 a 44,0	2683	17,0	19,3	3,6	3,4			

Cont. Furo: 2148-FM-045-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	2684/75	18,1	23,2	3,7	3,1			
45,0 a 46,0	2685	19,1	23,8	3,4	3,1			
46,0 a 47,0	2686	20,6	27,4	3,3	3,4			
47,0 a 48,0	2687	21,6	26,6	3,2	3,1			
48,0 a 49,0	2688	21,6	28,0	2,8	3,1			
49,0 a 50,0	2689	23,1	30,2	3,7	2,4			
50,0 a 51,0	2690	15,5	18,5	3,0	3,7			
51,0 a 52,0	2691	13,0	19,0	0,5	3,6			
52,0 a 53,0	2692	14,5	19,0	2,5	3,4			
53,0 a 54,0	2693	15,6	18,2	2,0	3,4			
54,0 a 55,0	2694	14,4	21,5	2,0	3,1			
55,0 a 56,0	2695	12,0	26,9	1,0	2,5			
56,0 a 57,0	2696	10,0	30,2	1,0	2,1			
57,0 a 58,0	2697	9,5	27,1	1,3	2,3			
58,0 a 59,0	2698	9,8	30,8	0,8	2,3			
59,0 a 60,0	2699	11,4	30,5	0,5	2,3			
60,0 a 60,80	2700	13,8	29,1	0,6	1,9			

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-046-MG.

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2781/75	16,1	4,8	9,9	4,9			
1,0 a 2,0	2782	14,9	12,0	4,8	4,6			
2,0 a 3,0	2783	22,1	25,2	5,1	2,8			
3,0 a 4,0	2784	16,8	18,2	3,9	3,4			
4,0 a 5,0	2785	14,4	17,6	1,8	2,1			
5,0 a 6,0	2786	14,9	17,9	2,5	2,6			
6,0 a 7,0	2787	12,3	15,7	3,0	4,2			
7,0 a 8,0	2788	15,8	17,9	3,8	4,6			
8,0 a 9,0	2789	17,5	16,5	2,5	2,3			
9,0 a 10,0	2790	17,9	21,3	3,3	3,9			
10,0 a 11,0	2791	14,7	18,2	2,5	3,1			
11,0 a 12,0	2792	15,5	19,0	3,8	4,1			
12,0 a 13,0	2793	13,9	18,5	2,5	3,3			
13,0 a 14,0	2794	14,5	17,1	3,8	3,7			
14,0 a 15,0	2795	14,6	19,3	2,8	4,1			
15,0 a 16,0	2796	12,2	17,3	2,4	3,5			
16,0 a 17,0	2797	14,1	18,7	2,5	4,3			
17,0 a 18,0	2798	15,0	19,0	2,3	3,9			

Cont. Puro: 2148-FM-046-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2799/75	12,0	15,4	5,9	4,5			
19,0 a 20,0	2800	11,8	15,7	5,1	4,9			
20,0 a 21,0	2801	14,3	17,9	2,8	4,2			
21,0 a 22,0	2802	13,7	17,6	4,3	4,1			
21,0 a 22,0	2803	16,9	21,0	4,6	4,2			
23,0 a 24,0	2804	17,1	22,9	3,4	3,5			
24,0 a 25,0	2805	16,6	17,6	4,1	2,0			
25,0 a 26,0	2806	14,0	17,3	0,8	2,4			
26,0 a 27,0	2807	13,5	17,1	2,5	3,8			
27,0 a 28,0	2808	13,0	18,2	3,8	4,8			
28,0 a 29,0	2809	15,3	17,3	4,8	4,6			
29,0 a 30,0	2810	15,6	14,0	3,8	3,4			
30,0 a 31,0	2811	15,1	17,1	6,9	2,9			
31,0 a 32,0	2812	15,2	17,9	3,6	3,9			
32,0 a 33,0	2813	14,1	14,8	3,0	3,6			
33,0 a 34,0	2814	12,9	15,1	4,3	5,4			
34,0 a 35,0	2815	7,4						
35,0 a 36,0	2816	3,6						
36,0 a 37,0	2817	3,5						
37,0 a 38,0	2818	3,3						
38,0 a 39,0	2819	3,7						
39,0 a 40,0	2820	2,3						
40,0 a 41,0	2821	4,7						
41,0 a 42,0	2822	7,3						
42,0 a 43,0	2823	8,1						
43,0 a 44,0	2824	9,7	12,6	3,0	4,2			
44,0 a 45,0	2825	9,5	11,7	3,8	4,4			

Cont. Puro: 2148-PM-046-ING

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	2826/75	10,0	12,6	3,3	4,7			
46,0 a 47,0	2827	14,5	16,5	3,6	4,3			
47,0 a 48,0	2828	10,6	13,4	3,0	4,6			
48,0 a 49,0	2829	12,0	14,3	3,0	3,6			
49,0 a 50,0	2830	13,2	14,8	3,0	1,4			
50,0 a 51,0	2831	12,8	15,4	3,4	4,3			
51,0 a 52,0	2832	10,3	12,6	2,8	4,4			
52,0 a 53,0	2833	12,3	14,0	3,6	3,7			
53,0 a 54,0	2834	16,2	18,5	1,0	4,2			
54,0 a 55,0	2835	13,5	15,7	3,8	4,6			
55,0 a 56,0	2836	17,1	20,4	3,8	3,9			
56,0 a 57,0	2837	17,7	14,0	9,9	3,9			
57,0 a 58,0	2838	15,5	20,4	5,1	5,2			
58,0 a 59,0	2839	17,6	21,3	4,1	4,5			
59,0 a 60,0	2840	7,5						
60,0 a 61,0	2841	9,4	13,1	4,8	5,0			
61,0 a 62,0	2842	9,1						
62,0 a 63,0	2843	16,0	18,7	3,8	4,0			
63,0 a 64,0	2844	11,2	19,6	1,9	2,4			
64,0 a 65,0	2845	6,8						
65,0 a 66,0	2846	5,9						
66,0 a 67,0	2847	3,7						
67,0 a 68,0	2848	3,0						
68,0 a 69,35	2849	4,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-047-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO ^{***}	Al ₂ O ₃ ^{**}	Fe ₂ O ₃ ^{**}	F	CO ₂	
0,0 a 1,0	2195/75	4,5						
1,0 a 2,0	2196	4,8						
2,0 a 3,0	2197	5,2						
3,0 a 4,0	2198	5,9						
4,0 a 5,0	2199	6,2						
5,0 a 6,0	2200	5,8						
6,0 a 7,0	2201	8,8						
7,0 a 8,0	2202	5,2						
8,0 a 9,0	2203	5,6						
9,0 a 10,0	2204	5,9						
10,0 a 11,0	2205	5,1						
11,0 a 12,0	2206	5,2						
12,0 a 13,0	2207	6,0						
13,0 a 14,0	2208	5,5						
14,0 a 15,0	2209	2,7						
15,0 a 16,0	2210	8,7						
16,0 a 17,0	2211	6,7						
17,0 a 18,0	2212	11,1	8,9	3,3	6,9			

Cont. Furo: 2148-FM-047-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	2213/75	10,1	11,7	3,3	6,7			
19,0 a 20,0	2214	9,7	10,6	2,8	6,2			
20,0 a 21,0	2215	10,0	10,3	3,0	6,2			
21,0 a 22,0	2216	10,0	11,2	2,8	7,4			
22,0 a 23,0	2217	9,6	12,0	2,8	5,2			
23,0 a 24,0	2218	11,2	12,6	3,3	5,4			
24,0 a 25,0	2219	10,9	12,9	3,0	5,8			
25,0 a 26,0	2220	10,3	10,9	3,0	5,7			
26,0 a 27,0	2221	7,3						
27,0 a 28,0	2222	8,6						
28,0 a 29,0	2223	10,3	12,9	4,4	4,9			
29,0 a 30,0	2224	13,2	14,0	4,3	5,1			
30,0 a 31,0	2225	10,6	13,4	4,1	5,4			
31,0 a 32,0	2226	11,7	14,3	3,6	5,4			
32,0 a 33,0	2227	13,4	15,9	3,3	3,2			
33,0 a 34,0	2228	16,8	18,7	4,6	4,4			
34,0 a 35,0	2229	14,4	17,3	4,3	4,3			
35,0 a 36,0	2230	12,8	15,9	3,6	4,8			
36,0 a 37,0	2231	13,5	15,9	4,3	4,8			
37,0 a 38,0	2232	10,5	13,7	3,6	4,9			
38,0 a 39,0	2233	9,7	14,3	4,3	4,3			
39,0 a 40,0	2234	17,1	21,5	4,6	3,5			
40,0 a 41,0	2235	11,1	14,5	3,8	4,3			
41,0 a 42,0	2236	12,7	16,8	4,8	3,8			
42,0 a 43,0	2237	15,2	18,7	4,6	3,4			
43,0 a 44,0	2238	15,4	19,6	5,6	3,9			
44,0 a 45,0	2239	18,3	22,7	4,8	3,5			

Cont. Furo: 2148-PM-047-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	2240/75	17,0	22,9	4,1	3,4			
46,0 a 47,0	2241	11,7	32,5	1,3	2,1			
47,0 a 48,0	2242	12,6	32,5	1,0	1,9			
48,0 a 49,0	2243	12,0	35,0	1,0	1,9			
49,0 a 50,0	2244	10,6	32,5	0,5	1,9			
50,0 a 51,50	2245	9,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL / LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-049-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3861/75	2,3						
1,0 a 2,0	3862	4,4						
2,0 a 3,0	3863	2,6						
3,0 a 4,0	3864	0,8						
4,0 a 5,0	3865	2,2						
5,0 a 6,0	3866	2,2						
6,0 a 7,0	3867	1,8						
7,0 a 8,0	3868	5,5						
8,0 a 9,0	3869	5,7						
9,0 a 10,0	3870	3,7						
10,0 a 11,0	3871	1,7						
11,0 a 12,0	3872	1,4						
12,0 a 13,0	3873	2,0						
13,0 a 14,0	3874	9,0						
14,0 a 15,0	3875	6,8						
15,0 a 16,0	3876	0,8						
16,0 a 17,0	3877	1,1						

Cont. Furo: 2148-PM-049-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	3878/75	1,2						
18,0 a 19,0	3879	1,5						
19,0 a 20,0	3880	1,3						
20,0 a 21,0	3881	1,7						
21,0 a 22,0	3882	2,0						
22,0 a 23,0	3883	1,1						
23,0 a 24,0	3884	0,7						
24,0 a 25,0	3885	0,9						
25,0 a 26,0	3886	0,6						
26,0 a 27,0	3887	0,6						
27,0 a 28,0	3888	1,3						
28,0 a 29,0	3889	1,5						
29,0 a 30,0	3890	2,1						
30,0 a 31,0	3891	1,0						
31,0 a 32,0	3892	1,4						
32,0 a 33,0	3893	2,1						
33,0 a 34,0	3894	1,4						
34,0 a 35,0	3885	2,3						
35,0 a 36,0	3896	1,1						
36,0 a 37,0	3897	1,7						
37,0 a 38,0	3898	4,5						
38,0 a 39,0	3899	1,5						
39,0 a 40,0	3900/75	11,2	15,5	2,8	3,2			
40,0 a 41,0	3901	7,5						
41,0 a 42,0	3902	2,4						
42,0 a 43,0	3903	2,1						
43,0 a 44,0	3904	4,8						

Cont. Furo: 2148-PM-049-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	3905/75	1,9						
45,0 a 46,0	3906	1,9						
46,0 a 47,0	3907	6,0						
47,0 a 48,0	3908	7,0						
48,0 a 49,0	3909	11,2	23,1	1,8	3,6			
49,0 a 50,0	3910	13,8	20,6	3,2	3,1			
50,0 a 51,0	3911	6,7						
51,0 a 52,0	3912	9,0						
52,0 a 53,0	3913	10,2	28,8	1,4	2,8			
53,0 a 54,0	3914	1,6						
54,0 a 55,0	3915	1,7						
55,0 a 56,0	3916	2,5						
56,0 a 57,0	3917	1,7						
57,0 a 58,0	3918	0,7						
58,0 a 59,10	3919	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-050-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3963/75	5,9						
1,0 a 2,0	3964	6,2						
2,0 a 3,0	3965	5,5						
3,0 a 4,0	3966	5,4						
4,0 a 5,0	3967	7,6						
5,0 a 6,0	3968	9,9	8,1	3,9	6,6			
6,0 a 7,0	3969	8,8						
7,0 a 8,0	3970	4,5						
8,0 a 9,0	3971	7,2						
9,0 a 10,0	3972	5,5						
10,0 a 11,0	3973	15,8	20,6	4,3	4,1			
10,0 a 11,0	3974	14,0	18,6	3,8	3,6			
12,0 a 13,0	3975	8,4						
13,0 a 14,0	3976	8,1						
14,0 a 15,0	3977	12,3	13,0	3,7	4,8			
15,0 a 16,0	3978	9,2						
16,0 a 17,0	3979	9,5	10,1	3,0	4,0			

Cont. Furo: 2148-FE-050-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	3980/75	9,0						
18,0 a 19,0	3981	5,0						
19,0 a 20,0	3982	6,4						
20,0 a 21,0	3983	6,6						
21,0 a 22,0	3984	5,0						
22,0 a 23,0	3985	6,2						
23,0 a 24,0	3986	9,1						
24,0 a 25,0	3987	10,5	12,0	3,3	3,8			
25,0 a 26,0	3988	10,4	12,3	2,9	3,9			
26,0 a 27,0	3989	20,2	24,3	4,1	4,1			
27,0 a 28,0	3990	11,5	13,8	2,2	5,1			
28,0 a 29,0	3991	3,5						
29,0 a 30,0	3992	4,8						
30,0 a 31,0	3993	10,9	12,3	4,3	3,9			
31,0 a 32,0	3994	10,4	12,6	4,6	4,6			
32,0 a 33,0	3995	2,9						
33,0 a 34,0	3996	4,4						
34,0 a 35,0	3997	3,3						
35,0 a 36,0	3998	3,1						
36,0 a 37,0	3999	5,4						
37,0 a 38,0	4000	3,1						
38,0 a 39,0	4001	4,8						
39,0 a 40,0	4002	9,1						
40,0 a 41,0	4003	10,1	12,3	4,1	4,6			
41,0 a 42,0	4004	10,0	22,1	1,5	3,4			
42,0 a 43,0	4005	7,6						
43,0 a 44,0	4006	7,6						

Cont. Furo: 2148-FBI-050-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-051-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2850/75	17,7	9,5	9,7	7,9			
1,0 a 2,0	2851	20,0	19,0	8,1	6,6			
2,0 a 3,0	2852	19,6	18,2	6,9	7,5			
3,0 a 4,0	2853	17,6	16,2	5,6	6,4			
4,0 a 5,0	2854	19,4	21,0	5,3	6,6			
5,0 a 6,0	2855	18,0	19,6	4,3	5,4			
6,0 a 7,0	2856	18,3	21,3	5,0	4,9			
7,0 a 8,0	2857	18,4	21,5	3,6	4,3			
8,0 a 9,0	2858	18,9	22,4	6,1	4,2			
9,0 a 10,0	2859	19,1	22,1	3,7	3,7			
10,0 a 11,0	2860	18,6	19,9	6,1	4,6			
11,0 a 12,0	2861	17,6	19,6	5,1	5,0			
12,0 a 13,0	2862	19,3	22,1	6,2	4,9			
13,0 a 14,0	2863	18,1	21,5	5,2	4,4			
14,0 a 15,0	2864	14,0	16,8	3,3	4,6			
15,0 a 16,0	2865	13,7	17,1	3,6	5,2			
16,0 a 17,0	2866	13,2	16,2	0,6	4,9			

Cont. Furo: 2148-PM-051-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	2867/75	17,9	21,5	5,6	4,6			
18,0 a 19,0	2868	17,3	19,6	4,7	4,5			
19,0 a 20,0	2869	18,1	22,4	4,1	3,6			
20,0 a 21,0	2970	17,2	19,9	3,2	3,4			
21,0 a 22,0	2871	15,9	19,0	4,1	4,3			
22,0 a 23,0	2872	13,4	17,3	2,8	2,9			
23,0 a 24,0	2873	17,0	21,3	3,9	4,1			
24,0 a 25,0	2874	16,7	21,0	4,6	4,2			
25,0 a 26,0	2875	16,0	21,3	4,2	4,0			
26,0 a 27,0	2876	19,4	22,7	3,0	3,6			
27,0 a 28,0	2877	15,9	19,0	5,6	4,4			
28,0 a 29,0	2878	18,6	22,9	2,4	3,8			
29,0 a 30,0	2879	18,8	23,8	3,6	3,6			
30,0 a 31,0	2880	21,4	28,0	4,6	3,1			
31,0 a 32,0	2881	12,3	14,0	3,7	4,2			
32,0 a 33,0	2882	10,8	12,9	3,6	4,6			
33,0 a 34,0	2883	10,7	14,3	3,6	4,7			
34,0 a 35,0	2884	16,6	21,3	6,2	4,8			
35,0 a 36,0	2885	15,8	19,0	5,5	4,6			
36,0 a 37,0	2886	17,1	21,3	5,3	4,8			
37,0 a 38,0	2887	16,0	18,7	4,8	5,0			
38,0 a 39,0	2888	18,8	22,3	8,7	4,2			
39,0 a 40,0	2889	18,9	22,4	2,2	4,9			
40,0 a 41,0	2890	17,5	19,9	5,6	4,8			
41,0 a 42,0	2891	16,6	21,0	3,9	4,8			
42,0 a 43,0	2892	18,9	24,3	7,3	4,6			
43,0 a 44,0	2893	13,4	24,3	5,6	5,7			

Cont. Furo: 2148-EM-051-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	2894/75	17,4	22,1	5,9	4,4			
45,0 a 46,0	2895	18,6	24,3	6,6	4,0			
46,0 a 47,0	2896	17,3	22,4	3,4	4,4			
47,0 a 48,0	2897	15,1	19,6	3,3	4,5			
48,0 a 49,0	2898	14,8	19,6	3,9	4,4			
49,0 a 50,0	2899	18,6	24,9	6,4	5,3			
50,0 a 51,0	2900	20,2	25,5	4,8	5,1			
51,0 a 52,0	2901	14,0	17,9	4,8	4,4			
52,0 a 53,0	2902	12,8	17,1	3,7	4,6			
53,0 a 54,0	2903	13,4	17,6	4,8	4,4			
54,0 a 55,0	2904	15,4	19,3	4,6	4,3			
55,0 a 56,0	2905	19,3	22,9	4,1	3,9			
56,0 a 57,0	2906	13,2	21,5	3,3	4,0			
57,0 a 58,0	2907	9,8	30,5	1,5	2,9			
58,0 a 59,0	2908	9,9	20,4	2,5	3,9			
59,0 a 60,0	2909	11,8	34,4	0,2	2,4			
60,0 a 61,0	2910	8,5						
61,0 a 62,0	2911	8,3						
62,0 a 63,0	2912	6,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-052-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3715/75	18,8	16,5	7,9	5,3			
1,0 a 2,0	3716	21,2	24,2	5,6	4,2			
2,0 a 3,0	3717	20,2	24,2	5,6	3,4			
3,0 a 4,0	3718	19,6	25,0	4,3	3,5			
4,0 a 5,0	3719	19,5	23,1	4,8	3,8			
5,0 a 6,0	3720	18,0	22,9	4,8	2,9			
6,0 a 7,0	3721	18,5	21,5	4,1	3,0			
7,0 a 8,0	3722	22,6	27,7	3,6	3,0			
8,0 a 9,0	3723	15,2	16,9	3,8	3,9			
9,0 a 10,0	3724	10,2	12,9	2,8	3,4			
10,0 a 11,0	3725	10,6	12,9	4,3	4,4			
11,0 a 12,0	3726	11,4	14,1	5,1	5,3			
12,0 a 13,0	3727	10,4	14,1	5,3	5,1			
13,0 a 14,0	3728	16,5	20,0	3,8	3,1			
14,0 a 15,0	3729	15,0	18,7	3,3	4,0			
15,0 a 16,0	3730	19,2	25,2	3,8	3,0			
16,0 a 17,0	3731	16,0	21,8	3,8	4,3			
17,0 a 18,0	3732	16,5	21,3	4,6	3,7			

Cont. Furo: 2148-PM-052-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	3733/75	17,8	17,3	6,4	4,5			
19,0 a 20,0	3734	17,3	22,9	4,6	3,8			
20,0 a 21,0	3735	17,8	24,8	5,3	4,1			
21,0 a 22,0	3736	16,0	25,7	3,3	3,4			
22,0 a 23,0	3737	13,8	20,6	3,8	3,6			
23,0 a 24,0	3738	14,0	18,6	3,0	4,1			
24,0 a 25,0	3739	14,8	19,6	3,3	3,9			
25,0 a 26,0	3740	14,9	19,9	4,3	4,1			
26,0 a 27,0	3741	16,1	20,8	7,4	4,1			
27,0 a 28,0	3742	23,6	30,6	5,3	3,0			
28,0 a 29,0	3743	19,1	24,1	5,1	3,9			
29,0 a 30,0	3744	19,4	24,1	3,3	3,7			
30,0 a 31,0	3745	12,4	22,5	4,6	3,4			
31,0 a 32,0	3746	14,6	17,6	5,1	4,8			
32,0 a 33,0	3747	13,2	17,6	4,1	4,7			
33,0 a 34,0	3748	15,6	18,0	5,1	4,7			
34,0 a 35,0	3749	12,1	14,3	3,8	4,4			
35,0 a 36,0	3750	14,5	16,8	3,6	5,1			
36,0 a 37,0	3751	13,6	15,0	3,8	4,8			
37,0 a 38,0	3752	15,7	16,1	3,8	4,4			
38,0 a 39,0	3753	13,3	13,8	4,1	4,6			
39,0 a 40,0	3754	11,9	13,0	3,8	6,3			
40,0 a 41,0	3755	13,7	13,4	3,3	3,9			
41,0 a 42,0	3756	12,4	12,2	2,8	3,3			
42,0 a 43,0	3757	13,4	13,3	2,3	4,6			
43,0 a 44,0	3758	14,0	15,2	4,8	5,3			
44,0 a 45,0	3759	14,2	14,8	4,6	5,4			

Cont. Furo: 2148-PM-052-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	3760/75	13,4	13,7	4,1	4,8			
46,0 a 47,0	3761	13,1	14,5	3,6	4,6			
47,0 a 48,0	3762	13,1	14,7	4,3	5,0			
48,0 a 49,0	3763	15,5	16,1	4,6	4,9			
49,0 a 50,0	3764	12,4	14,8	3,3	4,3			
50,0 a 51,0	3765	13,7	16,1	3,3	4,2			
51,0 a 52,0	3766	14,2	14,7	4,3	4,8			
52,0 a 53,0	3767	12,2	14,5	3,8	4,9			
53,0 a 54,0	3768	14,2	19,4	3,4	3,7			
54,0 a 55,0	3769	12,8	19,2	3,4	3,5			
55,0 a 56,0	3770	12,3	15,4	3,2	3,7			
56,0 a 57,0	3771	13,0	26,8	2,3	2,7			
57,0 a 58,0	3772	11,5	34,9	0,8	2,5			
58,0 a 59,0	3773							
59,0 a 60,0	3774	14,6	34,8	1,0	2,6			
60,0 a 61,0	3775	13,3	38,6	0,6	2,0			
61,0 a 62,0	3776	11,1	32,9	1,4	2,7			
62,0 a 63,0	3777	1,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-HI-053-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3227/75	19,8	25,2	4,1	4,1			
1,0 a 2,0	3228	18,7	25,2	3,9	3,9			
2,0 a 3,0	3229	19,8	25,7	4,5	3,9			
3,0 a 4,0	3230	19,8	25,7	4,3	3,7			
4,0 a 5,0	3231	21,0	28,5	4,4	3,3			
5,0 a 6,0	3232	17,5	22,7	5,3	4,1			
6,0 a 7,0	3233	17,7	23,5	5,3	3,9			
7,0 a 8,0	3234	21,7	30,5	4,7	2,9			
8,0 a 9,0	3235	18,7	22,4	4,1	3,6			
9,0 a 10,0	3236	17,6	23,2	3,8	3,3			
10,0 a 11,0	3237	22,0	31,6	4,8	3,3			
11,0 a 12,0	3238	20,6	28,5	3,9	3,0			
12,0 a 13,0	3239	21,3	28,5	3,7	3,3			
13,0 a 14,0	3240	17,7	23,2	5,6	3,5			
14,0 a 15,0	3241	18,1	24,1	1,9	3,9			
15,0 a 16,0	3242	16,4	21,5	5,5	4,4			
16,0 a 17,0	3243		23,5	4,4	3,9			
17,0 a 18,0	3244	14,9	20,1	5,6	4,8			

Cont. Furo: 2148-PM-053-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	3245/75	14,4	19,6	4,8	5,0			
19,0 a 20,0	3246	15,3	20,1	4,1	4,9			
20,0 a 21,0	3247	13,4	17,6	3,2	4,5			
21,0 a 22,0	3248	19,6	16,2	4,6	4,1			
22,0 a 23,0	3249	16,9	21,5	3,8	3,4			
23,0 a 24,0	3250	18,3	24,3	5,3	3,9			
24,0 a 25,0	3251	18,0	22,4	6,1	5,8			
25,0 a 26,0	3252	15,9	20,4	4,3	4,2			
26,0 a 27,0	3253	16,0	20,7	4,1	4,1			
27,0 a 28,0	3254	13,1	18,2	4,1	4,6			
28,0 a 29,0	3255	12,8	17,3	4,6	4,3			
29,0 a 30,0	3256	5,3						
30,0 a 31,0	3257	9,5	13,7	3,3	5,5			
31,0 a 32,0	3258	4,8						
32,0 a 33,0	3259	3,0						
33,0 a 34,0	3260	3,2						
34,0 a 35,0	3261	4,3						
35,0 a 36,0	3262	4,9						
36,0 a 37,0	3263	3,1						
37,0 a 38,0	3264	4,1						
38,0 a 39,0	3265	2,0						
39,0 a 40,0	3266	2,2						
40,0 a 41,0	3267	1,8						
41,0 a 41,75	3268	1,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPIEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-054-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4196/75	4,9						
1,0 a 2,0	4197	5,3						
2,0 a 3,0	4198	5,3						
3,0 a 4,0	4199	4,6						
4,0 a 5,0	4200	9,5						
5,0 a 6,0	4201	7,9						
6,0 a 7,0	4202	13,9	11,2	5,9	5,3			
7,0 a 8,0	4203	17,0	16,6	6,6	4,6			
8,0 a 9,0	4202	16,50	19,3	4,3	3,9			
9,0 a 10,0	4205	15,0	17,9	4,8	3,6			
10,0 a 11,0	4206	8,4						
11,0 a 12,0	4207	3,6						
12,0 a 13,0	4208	4,5						
13,0 a 14,0	4209	4,6						
14,0 a 15,0	4210	4,1						
15,0 a 16,0	4211	3,9						
16,0 a 17,0	4212	3,1						

Cont. Furo: 2148-III-054-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	4213/75	3,7						
18,0 a 19,0	4214	3,6						
19,0 a 20,0	4215	4,3						
20,0 a 21,0	4216	4,0						
21,0 a 22,0	4217	5,9						
22,0 a 23,0	4218	15,5	18,9	3,3	3,9			
23,0 a 24,0	4219	13,9	18,0	5,2	4,4			
24,0 a 25,0	4220	15,2	18,2	5,2	3,9			
25,0 a 26,0	4221	17,8	21,1	7,6	4,1			
26,0 a 27,0	4222	15,4	18,6	4,1	4,0			
27,0 a 28,0	4223	13,1	15,0	6,9	4,4			
28,0 a 29,0	4224	17,1	21,4	4,3	3,6			
29,0 a 30,0	4225	15,0	20,0	5,4	4,1			
30,0 a 31,0	4226	13,4	16,4	4,1	4,1			
31,0 a 32,0	4227	15,2	17,9	5,4	4,1			
32,0 a 33,0	4228	12,5	15,8	5,6	5,4			
33,0 a 34,0	4229	4,1						
34,0 a 35,0	4230	3,9						
35,0 a 36,0	4231	2,5						
36,0 a 37,0	4232	2,7						
37,0 a 38,0	4233	3,9						
38,0 a 39,0	4234	4,4						
39,0 a 40,0	4235	2,2						
40,0 a 41,0	4236	3,5						
41,0 a 42,0	4237	6,3						
42,0 a 43,0	4238	19,2	20,7	5,9	4,1			
43,0 a 44,0	4239	13,6	16,8	5,9	4,0			

Cont. Furo: 21.8-FM-051-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	4240/75	13,2	21,4	5,1	3,6			
45,0 a 46,0	4241	18,0	21,4	5,6	3,9			
46,0 a 47,0	4242	14,9	17,6	5,1	4,4			
47,0 a 48,0	4243	15,5	18,7	5,0	4,2			
48,0 a 49,0	4244	18,5	20,6	5,5	4,1			
49,0 a 50,0	4245	17,0	19,9	5,6	3,6			
50,0 a 51,0	4246	19,1	21,7	5,4	4,2			
51,0 a 52,0	4247	17,0	19,9	5,1	4,1			
52,0 a 53,0	4248	17,9	22,4	5,1	3,9			
53,0 a 54,0	4249	17,0	22,0	6,1	4,1			
54,0 a 55,0	4250	16,5	20,3	4,7	4,1			
55,0 a 56,0	4251	17,3	21,7	4,6	4,1			
56,0 a 57,0	4245	5,3						
57,0 a 58,0	4253	5,9						
58,0 a 59,0	4254	8,1						
59,0 a 60,0	4255	2,3						
60,0 a 61,0	4256	4,7						
61,0 a 62,0	4257	9,7						
62,0 a 63,0	4258	14,2	18,2	3,4	4,4			
63,0 a 64,0	4259	17,5	22,0	5,4	4,1			
64,0 a 65,0	4260	11,6						
65,0 a 66,0	4261	1,5						
66,0 a 67,0	4262	1,8						
67,0 a 68,0	4263	2,3						
68,0 a 69,0	4264	1,0						
69,0 a 70,0	4265	1,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-055-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	2913/75	18,4	24,1	4,1	3,9			
1,0 a 2,0	2914	19,8	26,3	4,8	3,8			
2,0 a 3,0	2915	16,6	24,1	4,1	3,1			
3,0 a 4,0	2916	19,5	27,1	4,1	3,1			
4,0 a 5,0	2917	13,4	21,0	4,8	3,9			
5,0 a 6,0	2918	20,2	28,0	4,6	3,4			
6,0 a 7,0	2919	18,8	25,7	4,6	3,9			
7,0 a 8,0	2920	14,8	20,4	4,7	4,3			
8,0 a 9,0	2921	20,1	20,7	4,6	3,8			
9,0 a 10,0	2922	13,5	14,8	3,9	3,4			
10,0 a 11,0	2923	9,8	10,1	2,4	3,1			
11,0 a 12,0	2924	15,3	14,5	4,1	3,9			
12,0 a 13,0	2925	20,2	26,9	4,3	4,9			
13,0 a 14,0	2926	16,3	21,5	4,3	4,3			
14,0 a 15,0	2927	17,0	23,2	3,0	4,1			
15,0 a 16,0	2928	18,5	26,0	3,9	3,5			
16,0 a 17,0	2929	17,5	22,7	2,7	3,3			

Cont. Furo: 2148-PM-055-17C

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	2930/75	18,2	24,3	4,6	4,8			
18,0 a 19,0	2931	17,1	24,6	3,8	4,2			
19,0 a 20,0	2932	14,8	20,1	4,1	4,8			
20,0 a 21,0	2933	16,5	22,1	3,3	4,8			
21,0 a 22,0	2934	19,1	24,6	4,3	4,1			
22,0 a 23,0	2935	18,1	24,3	3,8	4,6			
23,0 a 24,0	2936	19,9	26,6	6,0	4,1			
24,0 a 25,0	2937	19,1	24,6	5,0	4,4			
25,0 a 26,0	2938	21,1	28,8	4,7	4,1			
26,0 a 27,0	2939	20,8	25,5	3,8	3,9			
27,0 a 28,0	2940	17,5	23,8	4,2	4,6			
28,0 a 29,0	2941	21,0	29,4	4,6	4,1			
29,0 a 30,0	2942	16,8						
30,0 a 31,0	2943	17,9	23,8	4,6	5,0			
31,0 a 32,0	2944	22,6	29,7	5,2	3,5			
32,0 a 33,0	2945	17,4	23,8	4,1	4,4			
33,0 a 34,0	2946	14,8	6,2	3,9	1,0			
34,0 a 35,0	2947	16,4	19,9	3,7	3,6			
35,0 a 36,0	2948	17,0	22,1	4,3	4,9			
36,0 a 37,0	2949	16,4	19,6	4,7	3,9			
37,0 a 38,0	2950	16,2	22,1	5,3	4,5			
38,0 a 39,0	2951	13,9	20,7	4,8	3,7			
39,0 a 40,0	2952	13,2	19,0	4,8	4,6			
40,0 a 41,0	2953	12,1	15,1	4,8	5,3			
41,0 a 42,0	2954	9,3	12,3	3,9	5,1			
42,0 a 43,0	2955	10,6	14,5	4,6	5,4			
43,0 a 44,0	2456	13,6	17,9	4,3	5,5			

Cont. Furo: 21 18-055-16

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	2957/75	15,7	20,4	4,3	5,9			
45,0 a 46,0	2958	13,0	20,1	5,1	4,8			
46,0 a 47,0	2959	13,5	20,4	4,6	4,1			
47,0 a 48,0	2960	14,0	20,1	3,9	4,1			
48,0 a 49,0	2961	10,9	15,4	4,8	4,8			
49,0 a 50,0	2962	15,8	22,7	4,6	5,3			
50,0 a 51,0	2963	12,9	17,9	4,1	4,8			
51,0 a 52,0	2964	15,1	22,1	4,3	4,5			
52,0 a 53,0	2965	15,2	21,0	5,6	4,8			
53,0 a 54,0	2966	18,4	24,3	4,8	4,2			
54,0 a 55,0	2967	15,4	24,6	3,4	4,2			
55,0 a 56,0	2968	8,2						
56,0 a 57,0	2969	7,8						
57,0 a 58,0	2970	10,0	23,8	1,1	2,6			
58,0 a 59,0	2971	8,1						
59,0 a 60,0	2972	8,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL / LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-056-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção Atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4266/75	2,3						
1,0 a 2,0	4267	3,0						
2,0 a 3,0	4268	3,7						
3,0 a 4,0	4269	5,2						
4,0 a 5,0	4270	3,2						
5,0 a 6,0	4271	5,0						
6,0 a 7,0	4272	9,4	11,7	4,7	4,8			
7,0 a 8,0	4273	8,9						
8,0 a 9,0	4274	9,0						
9,0 a 10,0	4275	10,5	11,5	4,6	4,8			
10,0 a 11,0	4276	11,0	14,4	5,4	4,5			
11,0 a 12,0	4277	12,5	16,5	6,1	4,0			
12,0 a 13,0	4278	14,0	17,1	6,0	4,4			
13,0 a 14,0	4279	12,5	17,5	3,3	3,9			
14,0 a 15,0	4280	16,0	17,2	4,2	4,1			
15,0 a 16,0	4281	15,8	18,9	3,4	3,9			
16,0 a 17,0	4282	15,8	17,2	4,2	4,1			
17,0 a 18,0	4283	6,3						

Cont. Furo: 2138-PM-056-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4284/75	3,2						
19,0 a 20,0	4285	2,3						
20,0 a 21,0	4286	1,4						
21,0 a 22,0	4287A	1,8						
22,0 a 23,0	4287B	1,4						
23,0 a 24,0	4288	1,8						
24,0 a 25,0	4289	4,7						
25,0 a 26,0	4290	6,7						
26,0 a 27,0	4291	6,5						
27,0 a 28,0	4292	5,2						
28,0 a 29,0	4293	7,2						
29,0 a 30,0	4294	7,1						
30,0 a 31,0	4295	7,8						
31,0 a 32,0	4296	10,1	28,0	1,3	2,9			
32,0 a 33,0	4297	7,2						
33,0 a 34,65	4298	4,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FH-057-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3106/75	3,6						
1,0 a 2,0	3107	3,1						
2,0 a 3,0	3108	3,6						
3,0 a 4,0	3109	3,4						
4,0 a 5,0	3110	3,8						
5,0 a 6,0	3111	8,7						
6,0 a 7,0	3112	8,7						
7,0 a 8,0	3113	7,6						
8,0 a 9,0	3114	5,3						
9,0 a 10,0	3115	5,2						
10,0 a 11,0	3116	5,1						
11,0 a 12,0	3117	5,4						
12,0 a 13,0	3118	5,9						
13,0 a 14,0	3119	12,5	0,8	2,0	7,1			
14,0 a 15,0	3120	6,6						
15,0 a 16,0	3121	7,0						
16,0 a 17,0	3122	3,9						
17,0 a 18,0	3123	3,35						

Cont. Furo: 2148-EM-057-1G

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	3125/75	7,7						
19,0 a 20,0	3126	10,6	16,2	4,6	5,2			
20,0 a 21,0	3127	7,8						
21,0 a 22,0	3128	7,7						
22,0 a 23,0	3129	11,1	14,8	3,2	5,2			
23,0 a 24,0	3130	11,4	16,5	4,7	5,1			
24,0 a 25,0	3131	6,9						
25,0 a 26,0	3132	5,0						
26,0 a 27,0	3133	6,4						
27,0 a 28,0	3134	3,9						
28,0 a 29,0	3135	4,3						
29,0 a 30,0	3136	5,0						
30,0 a 31,0	3137	6,7						
31,0 a 32,0	3138	6,6						
32,0 a 33,0	3139	9,3	0,7	3,8	6,3			
33,0 a 34,0	3140	8,0						
34,0 a 35,0	3141	7,2						
35,0 a 36,0	3142	4,4						
36,0 a 37,0	3143	8,0						
37,0 a 38,0	3144	9,9	16,2	5,6	4,4			
38,0 a 39,0	3145	8,9						
39,0 a 40,0	3146	8,4						
40,0 a 41,0	3147	16,6	20,3	4,3	3,4			
41,0 a 42,0	3148	5,3						
42,0 a 43,0	3149	5,1						
43,0 a 44,0	3150	6,0						
44,0 a 45,0	3151	3,6						
45,0 a 46,0	3152	3,6						

Cont. Furo: 2148-FA-057-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	3153/75	4,5						
47,0 a 48,0	3154	6,0						
48,0 a 49,0	3155	6,5						
49,0 a 50,0	3156	8,9						
50,0 a 51,0	3157	6,2						
51,0 a 52,0	3158	6,6						
52,0 a 53,0	3159	7,0						
53,0 a 54,0	3160	6,6						
54,0 a 55,0	3161	7,3						
55,0 a 56,0	3162	6,3						
56,0 a 57,0	3163	2,2						
57,0 a 58,0	3164	1,1						
58,0 a 59,0	3165	3,4						
59,0 a 60,0	3166	2,7						
60,0 a 61,0	3167	2,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL/LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-058-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4896/75	5,8						
1,0 a 2,0	4897	2,7						
2,0 a 3,0	4898	1,2						
3,0 a 4,0	4899	1,0						
4,0 a 5,0	4900	1,3						
5,0 a 6,0	4901	0,9						
6,0 a 7,0	4902	2,2						
7,0 a 8,0	4903	1,1						
8,0 a 9,0	4904	1,7						
9,0 a 10,0	4905	3,0						
10,0 a 11,0	4906	4,8						
11,0 a 12,0	4907	6,8						
12,0 a 13,0	4908	14,7						
13,0 a 14,0	4909	2,3						
14,0 a 15,0	4910	4,2						
15,0 a 16,0	4911	4,6						
16,0 a 17,0	4912	4,1						
17,0 a 18,0	4913	9,8						

Cont. Furo: 2148-FM-058-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4914/75	11,7						
19,0 a 20,0	4915	7,8						
20,0 a 21,0	4916/75	10,8	10,6	3,8	5,6			
21,0 a 22,0	4917	16,6	17,6	2,9	3,9			
22,0 a 23,0	4918	13,3	14,5	4,8	5,1			
23,0 a 24,0	4919	16,6	18,7	3,1	3,6			
24,0 a 25,0	4920	11,0	12,3	3,6	4,7			
25,0 a 26,0	4921	15,1	17,1	4,1	4,1			
26,0 a 27,0	4922	20,8	20,1	5,3	4,3			
27,0 a 28,0	4923	21,2	23,8	3,6	2,9			
28,0 a 29,0	4924	18,0	19,0	3,9	3,9			
29,0 a 30,0	4925	17,2	17,3	3,3	4,4			
30,0 a 31,0	4926	15,2	21,0	4,1	3,6			
31,0 a 32,0	4927	17,0	20,4	4,3	3,9			
32,0 a 33,0	4928	17,0	21,8	4,5	4,1			
33,0 a 34,0	4929	17,3	21,3	3,3	3,6			
34,0 a 35,0	4930	20,0	21,5	4,1	3,8			
35,0 a 36,0	4931	16,5	20,1	3,4	2,9			
36,0 a 37,0	4932	20,2	20,1	3,3	3,2			
37,0 a 38,0	4933	18,8	22,4	4,3	3,8			
38,0 a 39,0	4934	20,7	21,0	3,7	3,5			
39,0 a 40,0	4935	21,8	21,5	3,6	3,5			
40,0 a 41,0	4936	19,0	21,0	4,1	3,6			
41,0 a 42,0	4937	23,0	24,3	4,3	3,1			
42,0 a 43,0	4938	23,5	24,9	3,3	2,8			
43,0 a 44,0	4939	20,0	24,9	3,3	3,6			
44,0 a 45,0	4940	13,8	19,3	4,2	4,6			

Cont. Furo: 2148-PM-058-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	4941/75	16,0	22,9	3,0	3,5			
46,0 a 47,0	4942	20,0	23,5	4,1	3,9			
47,0 a 48,0	4943	17,4	22,4	4,8	3,8			
48,0 a 49,0	4944	18,0	24,9	3,3	4,0			
49,0 a 50,0	4945	17,4	21,0	4,6	3,6			
50,0 a 51,0	4946	20,2	22,9	4,6	3,9			
51,0 a 52,0	4947	20,5	22,4	4,3	4,1			
52,0 a 53,0	4948	20,5	24,9	4,6	3,6			
53,0 a 54,0	4949	23,0	27,1	4,4	3,6			
54,0 a 55,0	4950	23,0	24,6	5,0	3,2			
55,0 a 56,0	4951	24,5	25,5	4,6	3,4			
56,0 a 57,0	4952	19,5	21,5	4,6	4,0			
57,0 a 58,0	4953	20,0	19,6	4,6	3,6			
58,0 a 59,0	4954	19,5	22,7	4,8	3,1			
59,0 a 60,0	4955	22,0	22,9	3,0	3,6			
60,0 a 61,0	4956	19,0	18,5	3,0	5,1			
61,0 a 62,0	4957	20,5	22,4	4,2	3,9			
62,0 a 63,0	4958	19,0	23,8	5,6	3,8			
63,0 a 64,0	4959	17,4	22,7	3,0	3,9			
64,0 a 65,0	4960	18,2	29,7	4,3	3,6			
65,0 a 66,0	4961	18,2	25,7	6,1	4,0			
66,0 a 67,0	4962	23,0	30,5	3,8	3,6			
67,0 a 68,0	4963	20,5	28,3	4,6	3,9			
68,0 a 69,0	4964	23,5	25,5	3,9	4,1			
69,0 a 70,0	4965	19,5	27,7	3,9	3,7			
70,0 a 71,0	4966	22,0	24,6	4,2	3,8			
71,0 a 72,0	4967	23,5	24,9	3,0	3,6			

Cont. Furo: 2148-FM-058-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	4968/75	23,5	23,8	3,8	3,6			
73,0 a 74,0	4969	18,1	19,0	4,3	3,3			
74,0 a 75,0	4970	17,9	20,1	4,3	3,6			
75,0 a 76,0	4971	17,9	22,4	3,0	3,8			
76,0 a 77,0	4972	21,5	26,3	4,2	3,3			
77,0 a 78,0	4973	21,0	26,6	3,9	3,3			
78,0 a 79,0	4974	25,0	27,7	4,1	3,3			
79,0 a 80,0	4975	30,5	34,1	3,0	2,0			
80,0 a 81,0	4976	29,5	36,4	3,9	2,1			
81,0 a 82,0	4977	27,8	31,9	4,4	2,9			
82,0 a 83,0	4978	29,0	31,3	6,5	2,9			
83,0 a 84,0	4979	27,0	30,0	4,7	2,9			
84,0 a 85,0	4980	18,8	21,0	4,6	4,0			
85,0 a 86,0	4981	11,2	12,9	2,5	4,6			
86,0 a 87,0	4982	20,5	22,1	5,3	3,9			
87,0 a 88,0	4983	29,0	25,7	6,4	3,6			
88,0 a 89,0	4984	28,0	26,6	4,6	3,2			
89,0 a 90,0	4985	23,0	28,0	6,1	3,1			
90,0 a 91,0	5047	26,0	28,5	3,9	2,4			
91,0 a 92,0	5048	29,0	27,1	4,8	3,1			
92,0 a 93,0	5049	25,0	24,3	5,0	3,1			
93,0 a 94,0	5050	27,0	24,3	4,1	3,5			
94,0 a 95,0	5051	20,0	21,3	5,1	3,5			
95,0 a 96,0	5052	16,8	21,0	4,6	3,9			
96,0 a 97,0	5053	17,0	21,8	5,3	3,5			
97,0 a 98,0	5054	21,0	24,9	5,0	3,4			
98,0 a 99,0	5055A	20,5	22,7	5,9	2,9			

Cont. Furo: 2148-PM-058-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
99,0 a 100,0	5055B/75	19,0	24,1	3,8	2,8			
100,0 a 101,0	3921	17,0	31,7	0,9	4,1			
101,0 a 102,0	3922	18,0	22,4	3,4	3,4			
102,0 a 103,0	3923	14,8	33,6	3,6	3,6			
103,0 a 104,0	3924	18,5	31,6	4,6	2,9			
104,0 a 105,0	3925	17,0	27,1	3,8	2,4			
105,0 a 106,0	3926	17,3	32,0	3,7	2,9			
106,0 a 107,0	3927	19,6	24,9	3,8	3,6			
107,0 a 108,0	3928	17,2	28,0	4,6	3,4			
108,0 a 109,0	3929	16,3						
109,0 a 110,0	3930	13,7						
110,0 a 111,0	3931	17,3						
111,0 a 112,0	3932	14,9						
112,0 a 113,0	3933	14,7						
113,0 a 114,0	3934	17,6						
114,0 a 115,0	3935	12,7						
115,0 a 116,0	3936	14,1	17,2	4,4	3,9			
116,0 a 117,0	3937	6,7						
117,0 a 118,0	3938	7,0						
118,0 a 119,0	3939	5,2						
119,0 a 120,0	3940A	5,0						
120,0 a 121,0	3941A	5,8						
121,0 a 122,0	3942A	4,3						
122,0 a 123,0	3943A	4,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PII-059-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3173/75	5,0						
1,0 a 2,0	3174	5,9						
2,0 a 3,0	3175	4,0						
3,0 a 4,0	3176	1,3						
4,0 a 5,0	3177	1,5						
5,0 a 6,0	3178	1,1						
6,0 a 7,0	3179	1,4						
7,0 a 8,0	3180	0,7						
8,0 a 9,0	3181	0,7						
9,0 a 10,0	3182	1,6						
10,0 a 11,0	3183	2,3						
11,0 a 12,0	3184	1,8						
12,0 a 13,0	3185	1,7						
13,0 a 14,0	3186	6,3						
14,0 a 15,0	3187	1,4						
15,0 a 16,0	3188	1,6						
16,0 a 17,0	3189	1,6						

Cont. Furo: 2148-PI-058-16

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	3190/75	1,6						
18,0 a 19,0	3191	2,5						
19,0 a 20,0	3192	1,7						
20,0 a 21,0	3193	1,4						
21,0 a 22,0	3194	1,7						
22,0 a 23,0	3195	1,9						
23,0 a 24,0	3196	1,5						
24,0 a 25,0	3197	3,0						
25,0 a 26,0	3198	1,6						
26,0 a 27,0	3199	1,0						
27,0 a 28,0	3200	1,9						
28,0 a 29,0	3201	4,2						
29,0 a 30,0	3202	1,5						
30,0 a 31,0	3203	2,3						
31,0 a 32,0	3204	1,6						
32,0 a 33,0	3205	2,1						
33,0 a 34,0	7206	2,3						
34,0 a 35,0	3207	5,7						
35,0 a 36,0	3208	2,6						
36,0 a 37,0	3209	5,4						
37,0 a 38,0	3210	1,3						
38,0 a 39,0	3211	1,3						
39,0 a 40,0	3212	1,3						
40,0 a 41,0	3213	1,1						
41,0 a 42,0	3214	1,5						
42,0 a 43,0	3215	2,5						
43,0 a 44,0	3216	2,0						

Cont. Puro: 2148-PI-059-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P_2O_5	CaO	Al_2O_3	Fe_2O_3	F	CO_2	
44,0 a 45,0	3217/75	2,2						
45,0 a 46,0	3218	1,0						
46,0 a 47,0	3219	1,5						
47,0 a 48,0	3220	1,3						
48,0 a 49,0	3221	3,4						
49,0 a 50,0	3222	1,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-060-NG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3271/75	2,4						
1,0 a 2,0	3272	1,4						
2,0 a 3,0	3273	0,8						
3,0 a 4,0	3274	1,4						
4,0 a 5,0	3275	1,7						
5,0 a 6,0	3276	3,2						
6,0 a 7,0	3277	1,2						
7,0 a 8,0	3278	5,3						
8,0 a 9,0	3279	1,2						
9,0 a 10,0	3280	2,4						
10,0 a 11,0	3281	5,6						
11,0 a 12,0	3282	3,4						
12,0 a 13,0	3283	0,8						
13,0 a 14,0	3284	1,0						
14,0 a 15,0	3285	0,7						
15,0 a 16,0	3286	3,7						
16,0 a 17,0	3287	4,8						

Cont. Furo: 2148-PM-060-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	3288/75	2,9						
18,0 a 19,0	3289	2,0						
19,0 a 20,0	3290	4,0						
20,0 a 21,0	3291	2,1						
21,0 a 22,0	3292	1,4						
22,0 a 23,0	3293	1,5						
23,0 a 24,0	3294	1,4						
24,0 a 25,0	3295	1,6						
25,0 a 26,0	3296	1,4						
26,0 a 27,0	3297	1,1						
27,0 a 28,0	3298	2,0						
28,0 a 29,0	3299	2,0						
29,0 a 30,0	3300	5,5						
30,0 a 31,0	3301	1,0						
31,0 a 32,0	3302	3,0						
32,0 a 33,0	3303	0,5						
33,0 a 34,0	3304	2,3						
34,0 a 35,0	3305	2,9						
35,0 a 36,0	3306	1,8						
36,0 a 37,0	3307	0,9						
37,0 a 38,0	3308	1,3						
38,0 a 39,0	3309	1,5						
39,0 a 40,0	3310	1,9						
40,0 a 41,0	3311	2,8						
41,0 a 42,0	3312	2,1						
42,0 a 43,0	3313	1,4						
43,0 a 44,0	3314	1,5						

Cont. Furo: 214-HI-000-116

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	3315/75	0,9						
45,0 a 46,0	3316	2,3						
46,0 a 47,0	3317	1,4						
47,0 a 48,0	3318	2,4						
48,0 a 49,0	3319	4,2						
49,0 a 50,50	3320	3,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL - LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-061-MG

OBSERVAÇÃO: Do intervalo 0,0m a 69,0m - Geosol

69,0m a 299,0m- LAPEM

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6650/75	4,7						
1,0 a 2,0	6651	2,3						
2,0 a 3,0	6652	1,7						
3,0 a 4,0	6653	1,1						
4,0 a 5,0	6654	1,4						
5,0 a 6,0	6655	0,4						
6,0 a 7,0	6656	0,6						
7,0 a 8,0	6657	0,6						
8,0 a 9,0	6658	0,5						
9,0 a 10,0	6659	0,5						
10,0 a 11,0	6660	0,5						
11,0 a 12,0	6661	0,5						
12,0 a 13,0	6662	0,5						
13,0 a 14,0	6663	0,5						
14,0 a 15,0	6664	0,5						
15,0 a 16,0	6665	0,5						
16,0 a 17,0	6666	0,5						
17,0 a 18,0	6667	0,5						
18,0 a 19,0	6668	0,5						
19,0 a 20,0	6669	0,5						

Cont. Furo: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
20,0 a 21,0	6670/75	0,6						
21,0 a 22,0	6671	0,4						
22,0 a 23,0	6672	0,5						
23,0 a 24,0	6673	2,8						
24,0 a 25,0	6674	2,7						
25,0 a 26,0	6675	2,0						
26,0 a 27,0	6676	3,2						
27,0 a 28,0	6677	3,6						
28,0 a 29,0	6678	2,7						
29,0 a 30,0	6679	1,2						
30,0 a 31,0	6680	0,6						
31,0 a 32,0	6681	0,7						
32,0 a 33,0	6682	1,0						
33,0 a 34,0	6683	1,3						
34,0 a 35,0	6684	1,2						
35,0 a 36,0	6685	1,2						
36,0 a 37,0	6686	1,1						
37,0 a 38,0	6687	1,0						
38,0 a 39,0	6688	2,5						
39,0 a 40,0	6689	2,4						
40,0 a 41,0	6690	1,8						
41,0 a 42,0	6691	3,1						
42,0 a 43,0	6692	3,9						
43,0 a 44,0	6693	3,2						
44,0 a 45,0	6694	4,0						
45,0 a 46,0	6695	2,2						
46,0 a 47,0	6696	3,0						
47,0 a 48,0	6697	3,3						
48,0 a 49,0	6698	4,5						

Cont. Furo: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
49,0 a 50,0	6699/75	4,8						
50,0 a 51,0	6700	5,1						
51,0 a 52,0	6701	6,8						
52,0 a 53,0	6702	6,0						
53,0 a 54,0	6703	6,0						
54,0 a 55,0	6704	7,8						
55,0 a 56,0	6705	6,2						
56,0 a 57,0	6706	8,0						
57,0 a 58,0	6707	8,2						
58,0 a 59,0	6708	7,6						
59,0 a 60,0	6709	9,0						
60,0 a 61,0	6710	10,2						
61,0 a 62,0	6711	10,9						
62,0 a 63,0	6712	10,7						
63,0 a 64,0	6713	11,2						
64,0 a 65,0	6714	6,8						
65,0 a 66,0	6715	3,2						
66,0 a 67,0	6716	2,7						
67,0 a 68,0	6717	4,2						
68,0 a 69,0	6718	3,2						
69,0 a 70,0	4016/75	3,6						
70,0 a 71,0	4017	4,5						
71,0 a 72,0	4018	4,9						
72,0 a 73,0	4019	4,5						
73,0 a 74,0	4020	3,3						
74,0 a 75,0	4021	3,6						
75,0 a 76,0	4022	4,6						
76,0 a 77,0	4023	5,3						

Cont. Puro: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
77,0 a 78,0	4024/75	3,6						
78,0 a 79,0	4025	4,5						
79,0 a 80,0	4026	2,7						
80,0 a 81,0	4027	2,3						
81,0 a 82,0	4028	3,9						
82,0 a 83,0	4029	3,0						
83,0 a 84,0	4030	3,9						
84,0 a 85,0	4031	3,0						
85,0 a 86,0	4032	3,9						
86,0 a 87,0	4033	3,3						
87,0 a 88,0	4034	4,1						
88,0 a 89,0	4035	4,0						
89,0 a 90,0	4036	4,7						
90,0 a 91,0	4037	3,3						
91,0 a 92,0	4038	3,4						
92,0 a 93,0	4039	4,0						
93,0 a 94,0	4040	4,6						
94,0 a 95,0	4041	4,3						
95,0 a 96,0	4042	3,6						
96,0 a 97,0	4043	3,8						
97,0 a 98,0	4044	3,6						
98,0 a 99,0	4045	4,9						
99,0 a 100,0	4046	4,5						
100,0 a 101,0	4047	6,2						
101,0 a 102,0	4048	5,7						
102,0 a 103,0	4049	5,9						
103,0 a 104,0	4050	3,6						
104,0 a 105,0	4051	3,6						

Cont. Furo: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
105,0 a 106,0	4052/75	3,6						
106,0 a 107,0	4053	3,1						
107,0 a 108,0	4054	4,9						
108,0 a 109,0	4055	5,8						
109,0 a 110,0	4056	4,1						
110,0 a 111,0	4057	4,5						
111,0 a 112,0	4058	5,3						
112,0 a 113,0	4059	5,1						
113,0 a 114,0	4060	3,9						
114,0 a 115,0	4061	6,3						
115,0 a 116,0	4062	3,8						
116,0 a 117,0	4063	4,5						
117,0 a 118,0	4064	4,8						
118,0 a 119,0	4065	5,4						
119,0 a 120,0	4066	6,9						
120,0 a 121,0	4067	6,9						
121,0 a 122,0	4068	6,7						
122,0 a 123,0	4069	3,5						
123,0 a 124,0	4070	5,7						
124,0 a 125,0	4071	6,9						
125,0 a 126,0	4072	4,9						
126,0 a 127,0	4073	3,8						
127,0 a 128,0	4074	6,1						
128,0 a 129,0	4075	7,5						
129,0 a 130,0	4076	5,4						
130,0 a 131,0	4077	6,6						
131,0 a 132,0	4078	9,3						
132,0 a 133,0	4079	5,8						
133,0 a 134,0	4080	6,5						

Cont. Puro: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
134,0 a 135,0	4081/75	4,9						
135,0 a 136,0	4082	7,3						
136,0 a 137,0	4083	7,2						
137,0 a 138,0	4084	7,3						
138,0 a 139,0	4085	5,1						
139,0 a 140,0	4086	5,1						
140,0 a 141,0	4087	3,6						
141,0 a 142,0	4088	4,2						
142,0 a 143,0	4089	4,2						
143,0 a 144,0	4090	5,8						
144,0 a 145,0	4091	4,6						
145,0 a 146,0	4092	4,5						
146,0 a 147,0	4093	5,5						
147,0 a 148,0	4094	5,1						
148,0 a 149,0	4095	4,3						
149,0 a 150,0	4096	4,3						
150,0 a 151,0	4097	4,4						
151,0 a 152,0	4098	6,2						
152,0 a 153,0	4099	4,5						
153,0 a 154,0	4100	4,5						
154,0 a 155,0	4101	4,3						
155,0 a 156,0	4102	6,6						
156,0 a 157,0	4103	7,0						
157,0 a 158,0	4104	5,5						
158,0 a 159,0	4105	5,9						
159,0 a 160,0	4106	4,4						
160,0 a 161,0	4107	5,4						
161,0 a 162,0	4108	6,3						
162,0 a 163,0	4109	5,4						

Cont. Furo: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
163,0 a 164,0	4110/75	4,2						
164,0 a 165,0	4111	5,9						
165,0 a 166,0	4112	4,4						
166,0 a 167,0	4113	4,8						
167,0 a 168,0	4114	6,0						
168,0 a 169,0	4115	5,9						
169,0 a 170,0	4116	4,8						
170,0 a 171,0	4117	6,7						
171,0 a 172,0	4118	3,5						
172,0 a 173,0	4119	0,5						
173,0 a 174,0	4120	1,4						
174,0 a 175,0	4121	4,0						
175,0 a 176,0	4122	6,2						
176,0 a 177,0	4123	4,0						
177,0 a 178,0	4124	4,8						
178,0 a 179,0	4125	5,7						
179,0 a 180,0	4126	5,0						
180,0 a 181,0	4127	3,9						
181,0 a 182,0	4128	4,8						
182,0 a 183,0	4129	4,9						
183,0 a 184,0	4130	3,0						
184,0 a 185,0	4131	1,2						
185,0 a 186,0	4132	<0,5						
186,0 a 187,0	4133	<0,5						
187,0 a 188,0	4134	<0,5						
188,0 a 189,0	4135	<0,5						
189,0 a 190,0	4136	<0,5						
190,0 a 191,0	4137	<0,5						

Cont. Furo: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
191,0 a 192,0	4138/75	<0,5						
192,0 a 193,0	4139	<0,5						
193,0 a 194,0	4140	<0,5						
194,0 a 195,0	4141	<0,5						
195,0 a 196,0	4142	<0,5						
196,0 a 197,0	4143	<0,5						
197,0 a 198,0	4144	<0,5						
198,0 a 199,0	4145	<0,5						
199,0 a 200,0	4146	<0,5						
200,0 a 201,0	4147	<0,5						
201,0 a 202,0	4148	<0,5						
202,0 a 203,0	4149	<0,5						
203,0 a 204,0	4150	<0,5						
204,0 a 205,0	4151	<0,5						
205,0 a 206,0	4152	<0,5						
206,0 a 207,0	4153	<0,5						
207,0 a 208,0	4154	<0,5						
208,0 a 209,0	4155	<0,5						
209,0 a 210,0	4156	<0,5						
210,0 a 211,0	4157	<0,5						
211,0 a 212,0	4158	<0,5						
212,0 a 213,0	4159	<0,5						
213,0 a 214,0	4160	<0,5						
214,0 a 215,0	4161	<0,5						
215,0 a 216,0	4162	<0,5						
216,0 a 217,0	4163	<0,5						
217,0 a 218,0	4164	<0,5						
218,0 a 219,0	4165	<0,5						

Cont. Furo: 2148-PM-061-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
219,0 a 220,0	4166/75	<0,5						
220,0 a 221,0	4167	<0,5						
221,0 a 222,0	4168	<0,5						
222,0 a 223,0	4169	<0,5						
223,0 a 224,0	4170	<0,5						
224,0 a 225,0	4171	<0,5						
225,0 a 226,0	4172	<0,5						
226,0 a 227,0	4173	<0,5						
227,0 a 228,0	4174	<0,5						
228,0 a 229,0	4175	<0,5						
229,0 a 230,0	4176	<0,5						
230,0 a 231,0	4177	<0,5						
231,0 a 232,0	4178	<0,5						
232,0 a 233,0	4179	<0,5						
233,0 a 234,0	4180	<0,5						
234,0 a 235,0	4181	<0,5						
235,0 a 236,0	4182	<0,5						
236,0 a 237,0	4183	<0,5						
237,0 a 238,0	4184	<0,5						
238,0 a 239,0	4185	<0,5						
239,0 a 240,0	4186	<0,5						
240,0 a 241,0	4187	<0,5						
241,0 a 242,0	4188	<0,5						
242,0 a 243,0	4189	<0,5						
243,0 a 244,0	4190	<0,5						
244,0 a 245,0	4191	<0,5						
245,0 a 246,0	4192	<0,5						
246,0 a 247,0	4193	<0,5						
247,0 a 248,0	4194	<0,5						
248,0 a 249,0	4195	<0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: GEOSOL

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-062-MG

OBSERVAÇÃO: Análise espectrográfica feita pela Geosol

**Dosado por via úmida.

***Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4841/75	13,1	0,8	13,7	6,3			
1,0 a 2,0	4842	13,2	1,7	5,1	6,5			
2,0 a 3,0	4843	8,7						
3,0 a 4,0	4844	3,3						
4,0 a 5,0	4845	2,7						
5,0 a 6,0	4846	2,2						
6,0 a 7,0	4847	6,2						
7,0 a 8,0	4848	17,6	24,1	2,5	3,6			
8,0 a 9,0	4849	15,1	20,4	3,3	3,5			
9,0 a 10,0	4850	15,0	16,8	2,9	3,9			
10,0 a 11,0	4851	16,8	19,0	3,4	3,9			
11,0 a 12,0	4852	15,0	17,1	2,4	3,4			
12,0 a 13,0	4853	15,0	17,9	3,1	4,6			
13,0 a 14,0	4854	12,4	14,2	3,1	3,6			
14,0 a 15,0	4855	18,1	20,0	2,3	3,6			
15,0 a 16,0	4856	13,3	15,4	2,0	4,1			
16,0 a 17,0	4857	15,9	17,9	3,6	4,1			
17,0 a 18,0	4858	12,8	12,6	1,9	4,3			
18,0 a 19,0	4859	13,0	13,4	3,0	3,9			

Cont. Furo: 2148-FM-062-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		F_2O_5	CaO	Al_2O_3	Fe_2O_3	F	CO_2	
19,0 a 20,0	4860/75	13,7	15,7	1,0	3,1			
20,0 a 21,0	4861	12,4	12,6	2,0	4,2			
21,0 a 22,0	4862	7,5						
22,0 a 23,0	4863	3,3						
23,0 a 24,0	4864	2,6						
24,0 a 25,0	4865	3,1						
25,0 a 26,0	4866	3,2						
26,0 a 27,0	4867	2,6						
27,0 a 28,0	4868	3,1						
28,0 a 29,0	4869	2,2						
29,0 a 30,0	4870	2,2						
30,0 a 31,0	4871	2,7						
31,0 a 32,0	4872	2,7						
32,0 a 33,0	4873	2,2						
33,0 a 34,0	4874	3,6						
34,0 a 35,0	4875	3,3						
35,0 a 36,0	4876	3,9						
36,0 a 37,0	4877	3,3						
37,0 a 38,0	4878	2,7						
38,0 a 39,0	4879	2,5						
39,0 a 40,0	4880	2,9						
40,0 a 41,0	4881	2,9						
41,0 a 42,0	4882	1,7						
42,0 a 43,0	4883	0,9						
43,0 a 44,0	4884	0,9						
44,0 a 45,0	4885	2,4						
45,0 a 46,0	4886	3,0						
46,0 a 47,0	4887	1,9						

Cont. Furo: 2148-PM-062-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS.
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-063-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	3783/75	14,3	7,4	8,7	5,2			
1,0 a 2,0	3784	15,7	15,1	4,8	4,4			
2,0 a 3,0	3785	15,2	13,7	5,3	4,1			
3,0 a 4,0	3786	20,1	18,7	4,6	3,7			
4,0 a 5,0	3787	11,7	9,9	3,8	4,1			
5,0 a 6,0	3788	5,1						
6,0 a 7,0	3789	3,3						
7,0 a 8,0	3790	3,9						
8,0 a 9,0	3791	4,5						
9,0 a 10,0	3792	3,3						
10,0 a 11,0	3793	2,7						
11,0 a 12,0	3794	4,0						
12,0 a 13,0	3795	4,9						
13,0 a 14,0	3796	4,1						
14,0 a 15,0	3797	3,9						
15,0 a 16,0	3798	3,2						
16,0 a 17,0	3799	3,5						
17,0 a 18,0	3800	3,0						

Cont. Furo: 2148-PM-063-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	3801/75	3,2						
19,0 a 20,0	3802	2,0						
20,0 a 21,0	3803	2,4						
21,0 a 22,0	3804	0,7						
22,0 a 23,0	3805	1,2						
23,0 a 24,0	3806	1,9						
24,0 a 25,0	3807	3,1						
25,0 a 26,0	3808	2,2						
26,0 a 27,0	3809	3,5						
27,0 a 28,0	3810	3,0						
28,0 a 29,0	3811	3,0						
29,0 a 30,0	3812	3,7						
30,0 a 31,0	3813	3,0						
31,0 a 32,0	3814	3,7						
32,0 a 33,0	3815	2,7						
33,0 a 34,0	3816	4,4						
34,0 a 35,0	3817	3,3						
35,0 a 36,0	3818	5,4						
36,0 a 37,0	3819	4,4						
37,0 a 38,0	3820	3,0						
38,0 a 39,0	3821	4,4						
39,0 a 40,0	3822	4,4						
40,0 a 41,0	3823	4,5						
41,0 a 42,0	3824	15,4	15,1	3,8	3,6			
42,0 a 43,0	3825	4,9						
43,0 a 44,0	3826	6,4						
44,0 a 45,0	3827	9,1						
45,0 a 46,0	3828	4,9						

Cont. Furo: 2148-PM-063-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	3829/75	11,9	9,1	4,5	4,1			
47,0 a 48,0	3830	20,0	12,8	4,3	2,9			
48,0 a 49,0	3831	20,6	12,8	9,0	2,7			
49,0 a 50,0	3832	16,9	20,7	4,8	4,2			
50,0 a 51,0	3833	18,1	11,5	5,7	3,5			
51,0 a 52,0	3834	14,5	10,9	4,3	3,6			
52,0 a 53,0	3835	18,5	16,5	4,2	3,2			
53,0 a 54,0	3836	12,7	10,8	4,1	3,9			
54,0 a 55,0	3837	4,2						
55,0 a 56,0	3838	11,5	12,7	4,1	4,0			
56,0 a 57,0	3839	12,5	12,9	4,8	4,0			
57,0 a 58,0	3840	11,3	11,6	4,7	3,9			
58,0 a 59,0	3841	7,6						
59,0 a 60,0	3842	6,6						
60,0 a 61,0	3843	5,5						
61,0 a 62,0	3844	1,4						
62,0 a 63,0	3845	1,5						
63,0 a 64,0	3846	1,6						
64,0 a 65,0	3847	1,2						
65,0 a 66,0	3848	1,3						
66,0 a 67,0	3849	2,1						
67,0 a 68,0	3850	1,7						
68,0 a 69,0	3851	2,3						
69,0 a 70,0	3852	6,0						
70,0 a 70,85	3853	6,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-064-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4797/75	10,6	0,5	12,2	5,4			
1,0 a 2,0	4792	7,0						
2,0 a 3,0	4793	8,8						
3,0 a 4,0	4794	6,2						
4,0 a 5,0	4795	9,2						
5,0 a 6,0	4796	5,5						
6,0 a 7,0	4797	5,0						
7,0 a 8,0	4798	2,7						
8,0 a 9,0	4799/75	9,5	10,3	2,2	5,3			
9,0 a 10,0	4800	7,0						
10,0 a 11,0	4801	7,6						
11,0 a 12,0	4802	7,9						
12,0 a 13,0	4803	4,0						
13,0 a 14,0	4804	2,0						
14,0 a 15,0	4805	3,6						
15,0 a 16,0	4806	2,3						
16,0 a 17,0	4807	2,3						
17,0 a 18,0	4808	2,3						

OBS: Análise espectrográfica feita pela Geosol.

Cont. Furo: 2148-PM-064-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4809/75	3,6						
19,0 a 20,0	4810	7,2						
20,0 a 21,0	4811	8,7						
21,0 a 22,0	4812	7,3						
22,0 a 23,0	4813	4,6						
23,0 a 24,0	4814	2,5						
24,0 a 25,0	4815	4,2						
25,0 a 26,0	4816	3,3						
26,0 a 27,0	4817	3,5						
27,0 a 28,0	4818	2,8						
28,0 a 29,0	4819	1,9						
29,0 a 30,0	4820	3,7						
30,0 a 31,0	4821	2,4						
31,0 a 32,0	4822	2,4						
32,0 a 33,0	4823	3,0						
33,0 a 34,0	4823	3,4						
34,0 a 35,0	4824	1,6						
35,0 a 36,0	4825	1,2						
36,0 a 37,0	4826	1,0						
37,0 a 38,0	4827	1,4						
38,0 a 39,0	4828	1,4						
39,0 a 40,0	4829	2,1						
40,0 a 41,0	4830	1,0						
41,0 a 42,0	4831	1,4						
42,0 a 43,0	4832	0,8						
43,0 a 44,0	4833	0,6						
44,0 a 45,0	4834	1,0						

Cont. Furo: 2148-PM-064-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	4835/75	0,7						
46,0 a 47,0	4836	0,6						
47,0 a 48,0	4837	0,6						
48,0 a 49,0	4839	1,0						
49,0 a 50,55	4840	0,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-065-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4406/75	11,0	3,2	7,9	5,2			
1,0 a 2,0	4407	16,5	20,0	2,8	4,4			
2,0 a 3,0	4408	16,3	15,4	5,9	3,7			
3,0 a 4,0	4409	13,2	12,4	5,1	3,9			
4,0 a 5,0	4410	14,9	18,0	2,5	4,9			
5,0 a 6,0	4411	14,2	13,1	5,4	3,6			
6,0 a 7,0	4412	16,5	18,7	4,3	3,9			
7,0 a 8,0	4413	15,4	17,2	3,8	3,9			
8,0 a 9,0	4414	16,8	17,6	3,3	4,4			
9,0 a 10,0	4415	16,8	16,2	4,1	4,3			
10,0 a 11,0	4416	14,6	14,3	3,2	4,8			
11,0 a 12,0	4417	13,8	16,5	4,6	5,0			
12,0 a 13,0	4418	10,7	13,1	3,3	4,6			
13,0 a 14,0	4419	11,1	13,4	4,1	4,8			
14,0 a 15,0	4420	14,6	17,1	4,6	4,4			
15,0 a 16,0	4421	13,3	16,0	4,4	3,9			
16,0 a 17,0	4422	11,6	15,4	4,1	5,1			
17,0 a 18,0	4423	13,4	16,8	5,0	4,4			

Cont. Furo: 2148-PM-065-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4424/75	15,0	17,6	5,3	4,6			
19,0 a 20,0	4425	14,3	17,6	4,3	4,6			
20,0 a 21,0	4426	13,7	16,2	4,3	4,7			
21,0 a 22,0	4427	13,6	15,1	4,6	4,6			
22,0 a 23,0	4428	13,4	16,5	3,8	4,7			
23,0 a 24,0	4429	13,5	16,8	5,3	4,8			
24,0 a 25,0	4430	14,2	16,5	4,8	4,8			
25,0 a 26,0	4431	15,5	17,1	4,4	3,9			
26,0 a 27,0	4432	17,2	19,6	4,8	3,4			
27,0 a 28,0	4433	15,3	18,2	3,6	3,4			
28,0 a 29,0	4434	18,4						
29,0 a 30,0	4435	17,0						
30,0 a 31,0	4436	19,2	21,5	5,2	3,7			
31,0 a 32,0	4437	18,2	20,1	5,6	4,1			
32,0 a 33,0	4438	18,7	21,5	5,1	3,6			
33,0 a 34,0	4439	18,1	21,5	3,7	3,9			
34,0 a 35,0	4440	15,1	16,8	4,7	4,0			
35,0 a 36,0	4441	15,4	18,5	3,9	3,2			
36,0 a 37,0	4442	15,4	18,5	4,4	3,9			
37,0 a 38,0	4443	19,5	22,9	4,3	3,4			
38,0 a 39,0	4444	21,4	25,5	4,3	2,9			
39,0 a 40,0	4445	18,9	21,3	3,4	3,2			
40,0 a 41,0	4446	21,4	24,6	1,2	2,9			
41,0 a 42,0	4447	21,4	26,0	4,3	3,4			
42,0 a 43,0	4448	18,1	22,4	3,0	4,1			
43,0 a 44,0	4449	19,3	21,5	4,3	3,2			
44,0 a 45,0	4450	11,9						
45,0 a 46,0	4451	4,0						

Cont. Furo: 2148-PM-065-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	4452/75	4,1	24,6	1,4	2,5			
47,0 a 48,0	4453	10,1						
48,0 a 49,0	4454	1,4						
49,0 a 50,0	4455	0,6						
50,0 a 51,0	4456	1,1						
51,0 a 52,0	4457	1,5						
52,0 a 53,0	4458	1,0						
53,0 a 54,0	4459	1,1						
54,0 a 55,0	4460	5,0						
55,0 a 56,0	4461	4,7						
56,0 a 57,0	4462	4,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-066-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4479/75	3,8						
1,0 a 2,0	4480	4,3						
2,0 a 3,0	4481	9,6	4,5	6,1	6,6			
3,0 a 4,0	4482	8,8						
4,0 a 5,0	4483	11,8	11,2	4,6	5,3			
5,0 a 6,0	4484	8,6						
6,0 a 7,0	4485	12,0	13,4	4,6	4,6			
7,0 a 8,0	4486	10,9	12,9	3,2	4,4			
8,0 a 9,0	4487	15,8	17,1	5,1	4,9			
9,0 a 10,0	4488	12,1	13,7	4,1	4,5			
10,0 a 11,0	4489	7,3						
11,0 a 12,0	4490	13,7	15,6	4,3	3,7			
12,0 a 13,0	4491	9,2	12,0	4,1	4,6			
13,0 a 14,0	4492	18,5	20,7	4,4	3,2			
14,0 a 15,0	4493	21,1	23,0	5,3	3,0			
15,0 a 16,0	4494	11,7	15,1	4,0	5,0			
16,0 a 17,0	4495	9,3	11,2	4,0	5,1			
17,0 a 18,0	4496	9,5	12,6	4,6	4,7			

Cont. Furo: 2148-PM-066-MG.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4497	16,3	19,6	4,6	4,0			
19,0 a 20,0	4498	17,9	21,0	5,2	4,1			
20,0 a 21,0	4499	13,9	17,6	4,1	4,6			
21,0 a 22,0	4500	14,4	18,2	3,2	4,1			
22,0 a 23,0	4501	19,0	25,18	4,0	3,4			
23,0 a 24,0	4502	10,3	14,5	4,4	5,0			
24,0 a 25,0	4503	12,8	17,6	5,1	4,1			
25,0 a 26,0	4504	20,8	27,0	6,4	3,1			
26,0 a 27,0	4505	15,0	19,6	4,1	3,9			
27,0 a 28,0	4506	14,7	18,7	4,3	3,8			
28,0 a 29,0	4507	11,7	15,7	3,7	4,2			
29,0 a 30,0	4508	12,0	16,5	4,8	4,3			
30,0 a 31,0	4509	12,5	15,9	5,5	4,1			
31,0 a 32,0	4510	12,5	15,9	4,6	4,2			
32,0 a 33,0	4511	13,2	15,9	5,6	4,3			
33,0 a 34,0	4512	21,9	29,1	4,8	3,5			
34,0 a 35,0	4513	20,3	27,4	5,2	3,7			
35,0 a 36,0	4514	18,7	24,3	5,1	3,6			
36,0 a 37,0	4515	13,0	18,2	5,2	3,9			
37,0 a 38,0	4516	13,5	17,9	4,4	4,1			
38,0 a 39,0	4517	16,2	20,4	4,8	3,6			
39,0 a 40,0	4518	15,4	20,4	5,1	3,9			
40,0 a 41,0	4519	14,0	18,2	3,2	3,7			
41,0 a 42,0	4520	18,9	23,5	4,7	4,5			
42,0 a 43,0	4521	12,9	16,2	5,1	4,5			
43,0 a 44,0	4522	12,6	15,4	5,2	4,1			
44,0 a 45,0	4523	14,9	18,7	4,8	4,0			
45,0 a 46,0	4524	18,0	22,4	3,6	3,4			

Cont. Furo: 2148-PM-066-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	4525	11,7	15,9	3,8	4,1			
47,0 a 48,0	4526	11,9	16,5	3,9	4,5			
48,0 a 49,0	4527	6,7						
49,0 a 50,0	4528	2,9						
50,0 a 51,0	4529	1,3						
51,0 a 52,0	4530	0,4						
52,0 a 53,0	4531	1,4						
53,0 a 54,0	4532	1,3						
54,0 a 55,0	4533	1,5						
55,0 a 56,0	4534	1,3						
56,0 a 57,0	4535	4,0						
57,0 a 58,0	4536	4,6						
58,0 a 59,0	4537	6,6						
59,0 a 60,0	4538	5,7						
60,0 a 61,0	4539	4,8						
61,0 a 62,0	4540	6,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-067-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5065/75	5,0						
1,0 a 2,0	5066	7,2						
2,0 a 3,0	5067	3,4						
3,0 a 4,0	5068							
4,0 a 5,0	5069	8,4						
5,0 a 6,0	5070	5,4						
6,0 a 7,0	5071	2,8						
7,0 a 8,0	5072	1,4						
8,0 a 9,0	5073	1,8						
9,0 a 10,0	5074	1,1						
10,0 a 11,0	5075	1,3						
11,0 a 12,0	5076	1,5						
12,0 a 13,0	5077	2,1						
13,0 a 14,0	5078	4,0						
14,0 a 15,0	5079	4,3						
15,0 a 16,0	5080	4,2						
16,0 a 17,0	5081	4,9						
17,0 a 18,0	5082	5,2						

OBS: Os intervalos que estão faltando análises espectrográfica, são os os que não vieram do Rio.

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5083/75	5,2						
19,0 a 20,0	5084	7,0						
20,0 a 21,0	5085	6,5						
21,0 a 22,0	5086	9,8						
22,0 a 23,0	5087	5,1						
23,0 a 24,0	5088	5,4						
24,0 a 25,0	5089	5,8						
25,0 a 26,0	5090	8,3						
26,0 a 27,0	5091	10,2	13,1	3,8	4,0			
27,0 a 28,0	5092	14,1	16,2	4,1	4,0			
28,0 a 29,0	5093	13,8	17,1	2,7	4,4			
29,0 a 30,0	5094							
30,0 a 31,0	5095	0,5						
31,0 a 32,0	5096	<0,5						
32,0 a 33,0	5097	0,5						
33,0 a 34,0	5098	<0,5						
34,0 a 35,0	5099	<0,5						
35,0 a 36,0	5100	<0,5						
36,0 a 37,0	5101	<0,5						
37,0 a 38,0	5102	<0,5						
38,0 a 39,0	5103	<0,5						
39,0 a 40,0	5104	<0,5						
40,0 a 41,0	5105	<0,5						
41,0 a 42,0	5106	<0,5						
42,0 a 43,0	5107	<0,5						
43,0 a 44,0	5108	<0,5						
44,0 a 45,0	5109	<0,5						
45,0 a 46,0	5110	<0,5						

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	5111/75	<0,5						
47,0 a 48,0	5112	<0,5						
48,0 a 49,0	5113	<0,5						
49,0 a 50,0	5114	<0,5						
50,0 a 51,0	5115	<0,5						
51,0 a 52,0	5116	<0,5						
52,0 a 53,0	5117	<0,5						
53,0 a 54,0	5118	<0,5						
54,0 a 55,0	5119	<0,5						
55,0 a 56,0	5120	<0,5						
56,0 a 57,0	5121	<0,5						
57,0 a 58,0	5122	<0,5						
58,0 a 59,0	5123	<0,5						
59,0 a 60,0	5124	<0,5						
60,0 a 61,0	5125	<0,5						
61,0 a 62,0	5126	<0,5						
62,0 a 63,0	5127	<0,5						
63,0 a 64,0	5128	<0,5						
64,0 a 65,0	5129	<0,5						
65,0 a 66,0	5130	<0,5						
66,0 a 67,0	5131	<0,5						
67,0 a 68,0	5132	<0,5						
68,0 a 69,0	5133	<0,5						
69,0 a 70,0	5134	<0,5						
70,0 a 71,0	5135	<0,5						
71,0 a 72,0	5136	<0,5						
72,0 a 73,0	5137	<0,5						
73,0 a 74,0	5138	<0,5						

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
74,0 a 75,0	5139/75	<0,5						
75,0 a 76,0	5140	<0,5						
76,0 a 77,0	5141	<0,5						
77,0 a 78,0	5142	<0,5						
78,0 a 79,0	5143	<0,5						
79,0 a 80,0	5144	<0,5						
80,0 a 81,0	5145	<0,5						
81,0 a 82,0	5146	<0,5						
82,0 a 83,0	5147	<0,5						
83,0 a 84,0	5148	<0,5						
84,0 a 85,0	5149	<0,5						
85,0 a 86,0	5150	<0,5						
86,0 a 87,0	5151	<0,5						
87,0 a 88,0	5152	<0,5						
88,0 a 89,0	5153	<0,5						
89,0 a 90,0	5154	<0,5						
90,0 a 91,0	5155	<0,5						
91,0 a 92,0	5156	<0,5						
92,0 a 93,0	5157	<0,5						
93,0 a 94,0	5158	<0,5						
94,0 a 95,0	5159	<0,5						
95,0 a 96,0	5160	<0,5						
96,0 a 97,0	5161	<0,5						
97,0 a 98,0	5162	<0,5						
98,0 a 99,0	5163	<0,5						
99,0 a 100,0	5164	<0,5						
100,0 a 101,0	5165	<0,5						
101,0 a 102,0	5166	<0,5						

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
102,0 a 103,0	5167/75	<0,5						
103,0 a 104,0	5168	<0,5						
104,0 a 105,0	5169	<0,5						
105,0 a 106,0	5170	<0,5						
106,0 a 107,0	5171	<0,5						
107,0 a 108,0	5172	<0,5						
108,0 a 109,0	5173	<0,5						
109,0 a 110,0	5174	<0,5						
110,0 a 111,0	5175	<0,5						
111,0 a 112,0	5176	<0,5						
112,0 a 113,0	5177	<0,5						
113,0 a 114,0	5178	<0,5						
114,0 a 115,0	5179	<0,5						
115,0 a 116,0	5180	<0,5						
116,0 a 117,0	5181	<0,5						
117,0 a 118,0	5182	<0,5						
118,0 a 119,0	5183	<0,5						
119,0 a 120,0	5184	<0,5						
120,0 a 121,0	5185	<0,5						
121,0 a 122,0	5186	<0,5						
122,0 a 123,0	5187	<0,5						
123,0 a 124,0	5188	<0,5						
124,0 a 125,0	5189	<0,5						
125,0 a 126,0	5190	<0,5						
126,0 a 127,0	5191	<0,5						
127,0 a 128,0	5192	<0,5						
128,0 a 129,0	5193	<0,5						
129,0 a 130,0	5194	<0,5						

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
130,0 a 131,0	5195/75	<0,5						
131,0 a 132,0	5196	<0,5						
132,0 a 133,0	5197	<0,5						
133,0 a 134,0	5198	<0,5						
134,0 a 135,0	5199	<0,5						
135,0 a 136,0	5200	<0,5						
136,0 a 137,0	5201	<0,5						
137,0 a 138,0	5202	<0,5						
138,0 a 139,0	5203	<0,5						
139,0 a 140,0	5204	<0,5						
140,0 a 141,0	5205	<0,5						
141,0 a 142,0	5206	<0,5						
142,0 a 143,0	5207	<0,5						
143,0 a 144,0	5208	<0,5						
144,0 a 145,0	5209	<0,5						
145,0 a 146,0	5210	<0,5						
146,0 a 147,0	5211	<0,5						
147,0 a 148,0	5212	<0,5						
148,0 a 149,0	5213	<0,5						
149,0 a 150,0	5214	<0,5						
150,0 a 151,0	5215	<0,5						
151,0 a 152,0	5216	<0,5						
152,0 a 153,0	5217	<0,5						
153,0 a 154,0	5218	<0,5						
154,0 a 155,0	5219	<0,5						
155,0 a 156,0	5220	<0,5						
156,0 a 157,0	5221	<0,5						
157,0 a 158,0	5222	<0,5						
158,0 a 159,0	5223	<0,5						

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
159,0 a 160,0	5224/75	<0,5						
160,0 a 161,0	5225	<0,5						
161,0 a 162,0	5226	<0,5						
162,0 a 163,0	5227	<0,5						
163,0 a 164,0	5228	<0,5						
164,0 a 165,0	5229	<0,5						
165,0 a 166,0	5230	<0,5						
166,0 a 167,0	5231	<0,5						
167,0 a 168,0	5232	<0,5						
168,0 a 169,0	5233	<0,5						
169,0 a 170,0	5234	<0,5						
170,0 a 171,0	5235	<0,5						
171,0 a 172,0	5236	<0,5						
172,0 a 173,0	5237	<0,5						
173,0 a 174,0	5238	<0,5						
174,0 a 175,0	5239	<0,5						
175,0 a 176,0	5240	<0,5						
176,0 a 177,0	5241	<0,5						
177,0 a 178,0	5242	<0,5						
178,0 a 179,0	5243	<0,5						
179,0 a 180,0	5244	<0,5						
180,0 a 181,0	5245	<0,5						
181,0 a 182,0	5246	<0,5						
182,0 a 183,0	5247	<0,5						
183,0 a 184,0	5248	<0,5						
184,0 a 185,0	5249	<0,5						
185,0 a 186,0	5250	<0,5						
186,0 a 187,0	5251	<0,5						
187,0 a 188,0	5252	<0,5						

Cont. Furo: 2148-PM-067-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
188,0 a 189,0	5253/75	<0,5						
189,0 a 190,0	5254	<0,5						
190,0 a 191,0	5255	<0,5						
191,0 a 192,0	5256	<0,5						
192,0 a 193,0	5257	<0,5						
193,0 a 194,0	5258	<0,5						
194,0 a 195,0	5259	<0,5						
195,0 a 196,0	5260	<0,5						
196,0 a 197,0	5261	<0,5						
197,0 a 198,0	5262	<0,5						
198,0 a 199,0	5263	<0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-068-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4571/75	1,2						
1,0 a 2,0	4572	0,7						
2,0 a 3,0	4573	0,6						
3,0 a 4,0	4574	0,7						
4,0 a 5,0	4575	1,7						
5,0 a 6,0	4576	1,5						
6,0 a 7,0	4577	2,5						
7,0 a 8,0	4578	4,3						
8,0 a 9,0	4579	6,2						
9,0 a 10,0	4580	7,1						
10,0 a 11,0	4581	7,6						
11,0 a 12,0	4582	9,3	10,3	4,5	4,5			
12,0 a 13,0	4583	9,5	8,1	4,6	6,1			
13,0 a 14,0	4584	14,3	15,1	4,3	3,5			
14,0 a 15,0	4585	13,7	16,5	3,2	4,0			
15,0 a 16,0	4586	18,4	20,4	4,5	3,9			
16,0 a 17,0	4587	14,3	16,5	3,6	4,1			
17,0 a 18,0	4588	13,5	15,9	3,3	4,0			

Cont. Furo: 2148-PM-068-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4589/75	15,7	18,2	3,8	3,6			
19,0 a 20,0	4590	16,6	19,0	5,6	3,2			
20,0 a 21,0	4591	13,0	15,4	7,4	4,1			
21,0 a 22,0	4592	13,5	16,8	5,2	4,3			
22,0 a 23,0	4593	16,7	20,6	5,1	4,3			
23,0 a 24,0	4594	18,0	22,8	5,1	3,8			
24,0 a 25,0	4595	11,2	14,4	5,3	4,4			
25,0 a 26,0	4596	13,4	16,5	4,3	5,0			
26,0 a 27,0	4597	18,2	24,9	4,8	3,5			
27,0 a 28,0	4598	10,7	15,4	5,3	4,0			
28,0 a 29,0	4599	12,7	16,8	5,1	2,9			
29,0 a 30,0	4600	16,4	20,7	5,6	2,0			
30,0 a 31,0	4601	12,1	16,9	4,6	2,3			
31,0 a 32,0	4602	16,5	21,7	5,0	2,1			
32,0 a 33,0	4603	16,0	20,4	5,1	2,2			
33,0 a 34,0	4604	12,2	16,4	5,1	2,4			
34,0 a 35,0	4605	14,9	20,3	4,4	2,4			
35,0 a 36,0	4606	12,6	17,1	5,3	2,2			
36,0 a 37,0	4607	12,5	17,4	4,7	2,4			
37,0 a 38,0	4608	14,9	19,2	5,1	2,5			
38,0 a 39,0	4609	11,3	15,5	6,6	2,6			
39,0 a 40,0	4610	12,7	16,4	5,3	2,5			
40,0 a 41,0	4611	13,5	16,9	4,6	2,3			
41,0 a 42,0	4612	10,4	14,7	4,1	2,9			
42,0 a 43,0	4613	17,9	21,1	5,1	2,3			
43,0 a 44,0	4614	15,8	17,5	5,1	2,6			
44,0 a 45,0	4615	17,7	19,4	5,3	1,9			
45,0 a 46,0	4616	17,8	19,6	4,3	2,4			

Cont. Furo: 2148-PM-068-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	4617/75	14,9	15,7	5,3	2,8			
47,0 a 48,0	4618	13,1	16,1	3,8	2,9			
48,0 a 49,0	4619	14,0	15,3	4,1	2,6			
49,0 a 50,0	4620	14,2	15,7	4,4	2,7			
50,0 a 51,0	4621	14,3	16,3	4,4	5,4			
51,0 a 52,0	4622	14,1	16,1	4,1	3,7			
52,0 a 53,0	4623	15,2	19,3	3,7	3,2			
53,0 a 54,0	4624	15,5	16,6	3,7	3,1			
54,0 a 55,0	4625	15,8	15,5	3,8	3,1			
55,0 a 56,0	4626	15,1	16,1	4,2	3,1			
56,0 a 57,0	4627	17,4	19,0	3,6	2,9			
57,0 a 58,0	4628	14,8	16,2	3,6	2,4			
58,0 a 59,0	4629	13,6	15,0	5,1	3,5			
59,0 a 60,0	4630	12,0	13,7	3,3	3,9			
60,0 a 61,0	4631	10,1	12,0	4,2	3,9			
61,0 a 62,0	4632	15,5	15,1	3,1	3,1			
62,0 a 63,0	4633	21,6	24,5	4,1	2,3			
63,0 a 64,0	4634	19,0	21,4	3,6	2,4			
64,0 a 65,0	4635	12,5	16,1	3,3	3,5			
65,0 a 66,0	4636	10,7	14,8	3,1	4,3			
66,0 a 67,0	4637	10,8	16,1	3,3	3,1			
67,0 a 68,0	4638	9,7	14,8	2,8	2,5			
68,0 a 69,0	4639	10,0	15,7	3,8	3,0			
69,0 a 70,0	4640	9,3	14,8	3,6	2,9			
70,0 a 71,0	4641	8,5						
71,0 a 72,0	4642	11,5	18,0	4,3	3,3			
72,0 a 73,0	4643	11,6	18,0	4,7	3,4			
73,0 a 74,0	4644	10,5	17,9	4,3	3,6			

Cont. Furo: 2148-PM-068-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	P	CO ₂	
74,0 a 75,0	4645/75	15,2	19,3	5,1	3,9			
75,0 a 76,0	4646	13,9	17,2	5,1	3,1			
76,0 a 77,0	4647	8,7						
77,0 a 78,0	4648	10,7	19,3	3,6	3,1			
78,0 a 79,0	4649	18,9	23,6	2,8	2,6			
79,0 a 80,0	4650	16,9	21,0	3,3	3,1			
80,0 a 81,0	4651	6,3						
81,0 a 82,0	4652	2,9						
82,0 a 83,0	4653	2,5						
83,0 a 84,0	4654	2,1						
84,0 a 85,0	4655	0,9						
85,0 a 86,0	4656	1,1						
86,0 a 87,0	4657	1,6						
87,0 a 88,0	4658	1,6						
88,0 a 88,95	4659	0,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FII-069-IG

OBSERVAÇÃO: **Dosado por via úmida.

***Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4664/75	7,2						
1,0 a 2,0	4665	7,0						
2,0 a 3,0	4666	2,4						
3,0 a 4,0	4667	4,0						
4,0 a 5,0	4668	4,6						
5,0 a 6,0	4669	9,6	5,6	4,8	9,3			
6,0 a 7,0	4670	11,2	9,4	4,6	6,2			
7,0 a 8,0	4671	9,1						
8,0 a 9,0	4672	11,9	13,3	4,1	3,7			
9,0 a 10,0	4673	9,0						
10,0 a 11,0	4674	9,7	12,0	4,6	4,4			
11,0 a 12,0	4675	8,8						
12,0 a 13,0	4676	11,0	26,9	1,1	2,9			
13,0 a 14,0	4677	11,8	13,7	3,9	5,3			
14,0 a 15,0	4678	11,8	14,3	4,9	4,9			
15,0 a 16,0	4679	12,5	15,4	3,4	4,5			
16,0 a 17,0	4680	13,5	15,7	4,8	4,7			
17,0 a 18,0	4681	9,9	11,7	4,1	4,9			

Cont. Furo: 2148-FI-069-RC

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	4682/75	20,6	22,2	4,8	3,7			
19,0 a 20,0	4683	11,2	13,4	4,4	4,6			
20,0 a 21,0	4684	17,0	17,9	4,8	4,5			
21,0 a 22,0	4685	13,5	15,7	5,3	4,1			
22,0 a 23,0	4686	15,3	17,5	5,9	4,4			
23,0 a 24,0	4687	17,5	22,4	4,7	3,8			
24,0 a 25,0	4688	17,8	21,4	6,0	4,2			
25,0 a 26,0	4689	19,6	18,7	4,6	3,4			
26,0 a 27,0	4690	22,2	26,6	4,8	3,1			
27,0 a 28,0	4691	20,6	28,0	5,7	3,6			
28,0 a 29,0	4692	14,7	18,5	4,8	4,2			
29,0 a 30,0	4693	16,8	20,6	4,8	3,7			
30,0 a 31,0	4694	19,1	23,1	5,1	3,9			
31,0 a 32,0	4695	18,6	22,2	5,1	3,9			
32,0 a 33,0	4696	15,6	18,0	4,3	4,1			
33,0 a 34,0	4697	12,5	16,5	5,7	4,1			
34,0 a 35,0	4698	15,0	19,2	4,1	3,6			
35,0 a 36,0	4699	16,0	21,8	4,1	3,9			
36,0 a 37,0	4700	13,0	18,6	4,3	3,6			
37,0 a 38,0	4701	13,3	19,4	4,3	3,7			
38,0 a 39,0	4702	12,8	17,2	4,3	4,4			
39,0 a 40,0	4703	10,9	15,1	5,0	4,6			
40,0 a 41,0	4704	8,3						
41,0 a 42,0	4705	10,3	14,8	3,9	4,6			
42,0 a 43,0	4706	9,3	10,6	9,0	4,3			
43,0 a 44,0	4707	5,0						
44,0 a 45,0	4708	7,2						

Cont. Furo: 2148-PM-069-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	4709/75	6,2						
46,0 a 47,0	4710	6,3						
47,0 a 48,0	4711	5,5						
48,0 a 49,0	4712	4,5						
49,0 a 50,0	4713	5,3						
50,0 a 51,0	4714	4,5						
51,0 a 52,0	4715	3,7						
52,0 a 53,0	4716	4,4						
53,0 a 54,0	4717	3,1						
54,0 a 55,0	4718	2,7						
55,0 a 56,0	4719	3,2						
56,0 a 57,0	4720	1,5						
57,0 a 58,0	4721	1,0						
58,0 a 59,0	4722	1,4						
59,0 a 60,0	4723	1,6						
60,0 a 61,0	4724	1,5						
61,0 a 62,0	4725	1,3						
62,0 a 63,0	4726	0,7						
63,0 a 64,0	4727	0,5						
64,0 a 65,0	4728	0,5						
65,0 a 66,0	4729	<0,5						
66,0 a 67,0	4730	0,6						
67,0 a 68,0	4731	<0,5						
68,0 a 69,0	4732	<0,5						
69,0 a 70,0	4733	0,8						
70,0 a 71,0	4734	4,6						

Cont. Furo: 2148-FF-069-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
71,0 a 72,0	4735/75	0,8						
72,0 a 73,0	4736	5,0						
73,0 a 74,0	4737	6,6						
74,0 a 75,0	4738	8,6						
75,0 a 76,0	4739	6,0						
76,0 a 77,0	4740	6,7						
77,0 a 78,0	4741	6,9						
78,0 a 79,0	4742	5,7						
79,0 a 80,0	4743	4,9						
80,0 a 81,0	4744	8,0						
81,0 a 82,0	4745	12,8	36,4	1,0	2,1			
82,0 a 83,0	4746	10,1	35,7	1,0	2,1			
83,0 a 84,0	4747	5,4	33,9	0,5	2,7			
84,0 a 85,0	4748	5,0						
85,0 a 86,0	4749	5,9						
86,0 a 88,0	4750	5,1						
87,0 a 88,0	4751	4,7						
88,0 a 89,0	4752	3,5						
89,0 a 90,0	4753	3,5						
90,0 a 91,0	4754	3,0						
91,0 a 92,0	4755	4,7						
92,0 a 93,0	4756	3,3						
93,0 a 94,0	4757	3,3						
94,0 a 95,0	4758	4,0						
95,0 a 96,0	4759	3,6						
96,0 a 97,0	4760	3,4						
97,0 a 98,0	4761	5,7						

Cont. Furo: 21.8-PP-069-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
98,0 a 99,0	4762/75	3,8						
99,0 a 100,0	4763	4,3						
100,0 a 101,0	4764	5,3						
101,0 a 102,0	4765	4,7						
102,0 a 103,0	4766	5,4						
103,0 a 104,0	4767	9,9						
104,0 a 105,0	4768	7,8						
105,0 a 106,0	4769	8,3						
106,0 a 107,0	4770	8,4						
107,0 a 108,0	4771	7,1						
108,0 a 109,0	4772	10,0	27,3	2,0	3,6			
109,0 a 110,0	4773	7,0						
110,0 a 111,0	4774	7,1						
111,0 a 112,0	4775	7,0						
112,0 a 113,0	4776	6,6						
113,0 a 114,0	4777	7,5						
114,0 a 115,0	4778	7,7						
115,0 a 116,0	4779	9,1						
116,0 a 117,0	4780	7,6						
117,0 a 118,0	4781	9,2						
118,0 a 119,0	4782	8,9						
119,0 a 120,0	4783	7,7						
120,0 a 121,0	4784	8,5						
121,0 a 122,0	4785	10,2	40,6	0,1	1,8			
122,0 a 123,0	4786	4,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-070-MG

OBSERVAÇÃO: ** Dosados por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	Al ^{**} 2O ₃	Fe ^{***} 2O ₃	F	CO ₂	
0,0 a 1,0	5266/75	5,3						
1,0 a 2,0	5267	4,2						
2,0 a 3,0	5268	3,3						
3,0 a 4,0	5269	2,2						
4,0 a 5,0	5270	1,8						
5,0 a 6,0	5271	1,6						
6,0 a 7,0	5272	1,4						
7,0 a 8,0	5273	1,1						
8,0 a 9,0	5274	0,8						
9,0 a 10,0	5275	0,6						
10,0 a 11,0	5276	0,6						
11,0 a 12,0	5277	1,3						
12,0 a 13,0	5278	1,3						
13,0 a 14,0	5279	1,0						
14,0 a 15,0	5280	1,3						
15,0 a 16,0	5281	1,4						
16,0 a 17,0	5282	5,6						
17,0 a 18,0	5283	9,9	6,4	6,4	4,9			

Cont. Furo: 2148-FH-070-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5284/75	13,1	9,2	4,3	5,0			
19,0 a 20,0	5285	15,2	17,1	4,1	4,6			
20,0 a 21,0	5286	11,9	14,5	4,8	4,9			
21,0 a 22,0	5287	9,8	12,0	4,1	4,3			
22,0 a 23,0	5288	18,8	17,3	9,4	3,1			
23,0 a 24,0	5289	17,7	19,6	6,4	3,9			
24,0 a 25,0	5290	13,0	14,8	4,8	4,1			
25,0 a 26,0	5291	18,0	18,5	6,5	3,0			
26,0 a 27,0	5292	18,1	20,1	6,2	3,7			
27,0 a 28,0	5293	12,3	14,3	6,1	4,6			
28,0 a 29,0	5294	14,3	16,8	5,0	4,6			
29,0 a 30,0	5295	10,3	13,4	5,0	4,1			
30,0 a 31,0	5296	15,7	17,9	7,3	4,4			
31,0 a 32,0	5297	13,8	15,9	5,3	4,9			
32,0 a 33,0	5298	12,0	15,7	2,4	5,0			
33,0 a 34,0	5299	17,2	21,3	4,2	4,0			
34,0 a 35,0	5300	14,1	16,8	5,7	4,3			
35,0 a 36,0	5301	14,8	18,5	4,8	3,9			
36,0 a 37,0	5302	13,7	17,6	6,0	4,3			
37,0 a 38,0	5303	15,6	16,2	7,5	4,7			
38,0 a 39,0	5304	14,7	15,7	5,2	4,1			
39,0 a 40,0	5305	12,2						
40,0 a 41,0	5306	13,2						
41,0 a 42,0	5307	15,0						
42,0 a 43,0	5308	13,2						
43,0 a 44,0	5309	10,6						
44,0 a 45,0	5310	7,7						

Cont. Furo: 2148-EM-070-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	5311/75	6,3						
46,0 a 47,0	5312	9,1						
47,0 a 48,0	5313	14,5						
48,0 a 49,0	5314	10,2						
49,0 a 50,0	5315	11,0						
50,0 a 51,0	5316	18,7						
51,0 a 52,0	5317	12,1						
52,0 a 53,0	5318	12,1						
53,0 a 54,0	5319	14,3						
54,0 a 55,0	5320	11,7						
55,0 a 56,0	5321	16,0						
56,0 a 57,0	5322	13,3						
57,0 a 58,0	5323	4,0						
58,0 a 59,0	5324	4,3						
59,0 a 60,0	5325	5,3						
60,0 a 61,0	5326	4,8						
61,0 a 62,0	5327	4,3						
62,0 a 63,0	5328	5,4						
63,0 a 64,0	5329	6,4						
64,0 a 65,0	5330	8,8						
65,0 a 66,0	5331	4,8						
66,0 a 67,0	5332	5,0						
67,0 a 68,0	5333	3,4						
68,0 a 69,0	5334	4,5						
69,0 a 70,0	5335	4,8						
70,0 a 71,0	5336	4,3						
71,0 a 72,0	5337	6,0						

Cont. Furo: 21.0-ET-070-EG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	5338/75	4,5						
73,0 a 74,0	5339	1,8						
74,0 a 75,0	5340	5,0						
75,0 a 76,0	5341	4,7						
76,0 a 77,0	5342	4,6						
77,0 a 78,0	5343	5,7						
78,0 a 79,0	5344	7,6						
79,0 a 80,0	5345	3,3						
80,0 a 81,0	5346	4,7						
81,0 a 82,0	5347	3,9						
82,0 a 83,0	5348	2,7						
83,0 a 84,0	5349	3,7						
84,0 a 85,0	5350	3,1						
85,0 a 86,0	5351	3,3						
86,0 a 87,0	5352	2,9						
87,0 a 88,0	5353	3,7						
88,0 a 89,0	5354	3,9						
89,0 a 90,0	5355	4,5						
90,0 a 91,0	5356	5,9						
91,0 a 92,0	5357	6,2						
92,0 a 93,0	5358	5,2						
93,0 a 94,0	5359	3,5						
94,0 a 95,0	5360	4,8						
95,0 a 96,0	5361	2,7						
96,0 a 97,0	5362	2,4						
97,0 a 98,0	5363	1,5						
98,0 a 99,0	5364	1,7						

Cont. Furo: 2148-EE-070-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
99,0 a 100,0	5365/73	1,1						
100,0 a 101,0	5366	1,5						
101,0 a 102,0	5367	<0,5						
102,0 a 103,0	5368	0,6						
103,0 a 104,0	5369	<0,5						
104,0 a 105,0	5370	<0,5						
105,0 a 106,0	5371	0,6						
106,0 a 107,0	5372	0,8						
107,0 a 108,0	5373	1,4						
108,0 a 109,0	5374	1,0						
109,0 a 110,0	5375	1,2						
110,0 a 111,0	5376	1,1						
111,0 a 112,0	5377	2,6						
112,0 a 113,0	5378	5,8						
113,0 a 114,0	5379	5,1						
114,0 a 115,0	5380	6,6						
115,0 a 116,0	5381	5,4						
116,0 a 117,0	5382	4,5						
117,0 a 118,0	5383	5,8						
118,0 a 119,0	5384	6,1						
119,0 a 120,0	5385	5,1						
120,0 a 121,0	5386	6,7						
121,0 a 122,0	5387	4,9						
122,0 a 123,0	5388	4,8						
123,0 a 124,0	5389	5,3						
124,0 a 125,0	5390	6,1						
125,0 a 126,0	5391	6,8						

Cont. Furo: 2148-PI-070-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
126,0 a 127,0	5392/75	4,9						
127,0 a 128,0	5393	5,4						
128,0 a 129,0	5394	3,9						
129,0 a 130,0	5395	1,8						
130,0 a 131,0	5396	2,8						
131,0 a 132,0	5397	3,1						
132,0 a 133,0	5398	6,1						
133,0 a 134,0	5399	4,3						
134,0 a 135,0	5400	5,8						
135,0 a 136,0	5401	5,7						
136,0 a 137,0	5402	5,8						
137,0 a 138,0	5403	5,1						
138,0 a 139,0	5404	5,0						
139,0 a 140,0	5405	3,3						
140,0 a 141,0	5406	5,1						
141,0 a 142,0	5407	2,8						
142,0 a 143,0	5408	5,1						
143,0 a 144,0	5409	4,5						
144,0 a 145,0	5410	5,7						
145,0 a 146,0	5411	5,8						
146,0 a 147,0	5412	7,9						
147,0 a 148,0	5413	5,8						
148,0 a 149,0	5414	3,5						
149,0 a 150,0	5415	6,9						
150,0 a 151,0	5416	7,7						
151,0 a 152,0	5417	7,4						
152,0 a 153,0	5418	7,0						

Cont. Furo: 2148-FW-070-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
153,0 a 154,0	5419/75	7,5						
154,0 a 155,0	5420	4,3						
155,0 a 156,0	5421	6,0						
156,0 a 157,0	5422	5,4						
157,0 a 158,0	5423	6,3						
158,0 a 159,0	5424	5,7						
159,0 a 160,0	5425	5,5						
160,0 a 161,0	5426	4,8						
161,0 a 162,0	5427	6,3						
162,0 a 163,0	5428	8,8						
163,0 a 164,0	5429	2,4						
164,0 a 165,0	5430	1,1						
165,0 a 175,0	5431	0,8						
166,0 a 167,0	5432	1,0						
167,0 a 168,0	5433	40,5						
168,0 a 169,0	5434	40,5						
169,0 a 170,0	5435	2,4						
170,0 a 171,0	5436	6,9						
171,0 a 172,0	5437	6,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-071-MG

OBSERVAÇÃO: ** Dosado por via úmida.

*** Absorção atômica.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	*** CaO	** Al ₂ O ₃	*** Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	4986/75	17,2	2,2	3,5	5,1			
1,0 a 2,0	4987	17,6	12,9	8,7	5,9			
2,0 a 3,0	4988	12,8	12,3	5,7	4,9			
3,0 a 4,0	4989	16,8	17,9	6,6	5,1			
4,0 a 5,0	4990	14,7	18,7	7,1	4,1			
5,0 a 6,0	4991	15,8	21,5	4,1	4,0			
6,0 a 7,0	4992	16,4	22,1	4,8	4,3			
7,0 a 8,0	4993	13,1	16,8	4,6	4,0			
8,0 a 9,0	4994	14,9	20,4	6,1	4,1			
9,0 a 10,0	4995	13,8	17,9	5,2	4,2			
10,0 a 11,0	4996	18,2	22,9	4,6	4,3			
11,0 a 12,0	4997	17,0	19,9	5,1	4,2			
12,0 a 13,0	4998	13,0	15,7	4,6	4,2			
13,0 a 14,0	4999	15,2	19,6	5,1	3,1			
14,0 a 15,0	5000	15,3	19,6	3,3	3,3			
15,0 a 16,0	5001	11,1	16,2	4,3	4,2			
16,0 a 17,0	5002	14,0	18,7	4,8	4,0			
17,0 a 18,0	5003	12,0	16,5	4,3	3,0			

Cont. Furo: 2148-III-071-EG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5004/75	13,0	17,9	5,3	3,9			
19,0 a 20,0	5005	12,5	17,3	4,6	4,0			
20,0 a 21,0	5006	12,6	17,9	4,5	4,0			
21,0 a 22,0	5007	15,3	21,0	4,1	3,6			
22,0 a 23,0	5008	14,5	19,6	4,6	3,9			
23,0 a 24,0	5009	11,7	17,3	3,4	4,0			
24,0 a 25,0	5010	10,8	15,7	3,8	4,5			
25,0 a 26,0	5011	10,7	14,8	4,8	3,9			
26,0 a 27,0	5012	6,7						
27,0 a 28,0	5013	10,1	13,7	3,9	3,6			
28,0 a 29,0	5014	7,0						
29,0 a 30,0	5015	7,3						
30,0 a 31,0	5016	7,1						
31,0 a 32,0	5017	5,2						
32,0 a 33,0	5018	2,8						
33,0 a 34,0	5019	4,4						
34,0 a 35,0	5020	4,3						
35,0 a 36,0	5021	3,0						
36,0 a 37,0	5022	3,0						
37,0 a 38,0	5023	3,6						
38,0 a 39,0	5024	3,3						
39,0 a 40,0	5025	2,9						
40,0 a 41,0	5026	2,4						
41,0 a 42,0	5027	1,2						
42,0 a 43,0	5028	1,7						
43,0 a 44,0	5029	0,8						
44,0 a 45,0	5030	<0,5						
45,0 a 46,0	5031	<0,5						

Cont. Furo: 2138-FM-071-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	5032/75	0,5	12,9	1,0	0,3			
47,0 a 48,0	5033	0,6						
48,0 a 49,0	5034	1,0						
49,0 a 50,0	5035	0,8						
50,0 a 51,0	5036	0,7						
51,0 a 52,0	5037	0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO-HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-072-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5443/75	7,8						
1,0 a 2,0	5444	2,6						
2,0 a 3,0	5445	4,5						
3,0 a 4,0	5446	5,0						
4,0 a 5,0	5447	5,7						
5,0 a 6,0	5448	5,5						
6,0 a 7,0	5449	4,5						
7,0 a 8,0	5450	5,7						
8,0 a 9,0	5451	8,0						
9,0 a 10,0	5452	7,0						
10,0 a 11,0	5453	4,5						
11,0 a 12,0	5454	5,5						
12,0 a 13,0	5455	6,5						
13,0 a 14,0	5456	5,5						
14,0 a 15,0	5457	6,8						
15,0 a 16,0	5458	5,8						
16,0 a 17,0	5459	7,8						

Cont. Furo: 2148-EM-072-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	5460/75	6,3						
18,0 a 19,0	5461	7,5						
19,0 a 20,0	5462	8,0						
20,0 a 21,0	5463	5,5						
21,0 a 22,0	5464	3,5						
22,0 a 23,0	5465	4,5						
23,0 a 24,0	5466	4,0						
24,0 a 25,0	5467	4,0						
25,0 a 26,0	5468	4,3						
26,0 a 27,0	5469	3,0						
27,0 a 28,0	5470	3,5						
28,0 a 29,0	5471	3,0						
29,0 a 30,0	5472	3,1						
30,0 a 31,0	5473	4,0						
31,0 a 32,0	5474	0,8						
32,0 a 33,0	5475	1,6						
33,0 a 34,0	5476	1,8						
34,0 a 35,0	5477	2,2						
35,0 a 36,0	5478	1,9						
36,0 a 37,0	5479	1,9						
37,0 a 38,0	5480	1,8						
38,0 a 39,0	5481	2,6						
39,0 a 40,0	5482	2,6						
40,0 a 41,0	5483	2,8						
41,0 a 42,0	5484	1,3						
42,0 a 43,0	5485	1,2						
43,0 a 44,0	5486	1,7						

Cont. Furo: 2148-FH-072-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	5487/75	1,6						
45,0 a 46,0	5488	1,4						
46,0 a 47,0	5489	1,4						
47,0 a 48,0	5490	1,5						
48,0 a 49,0	5491	1,6						
49,0 a 50,0	5492	1,1						
50,0 a 51,0	5493	1,5						
51,0 a 52,0	5494	1,4						
52,0 a 53,0	5495	1,6						
53,0 a 54,0	5496	1,3						
54,0 a 55,0	5497	1,0						
55,0 a 56,0	5498	1,5						
56,0 a 57,0	5499	1,2						
57,0 a 58,0	5500	1,3						
58,0 a 59,0	5501	0,9						
59,0 a 60,0	5502	2,1						
60,0 a 61,0	5503	1,8						
61,0 a 62,0	5504	1,6						
62,0 a 63,0	5505	1,5						
63,0 a 64,0	5506	1,4						
64,0 a 65,0	5507	2,0						
65,0 a 66,0	5508	1,1						
66,0 a 67,0	5509	1,3						
67,0 a 68,0	5510	1,5						
68,0 a 69,0	5511	1,7						
69,0 a 70,0	5512	1,1						
70,0 a 71,0	5513	1,5						

Cont. Furo: 2118-PI-072-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
71,0 a 72,0	5514/75	1,1						
72,0 a 73,0	5515	0,7						
73,0 a 74,0	5516	1,0						
74,0 a 75,0	5517	2,6						
75,0 a 76,0	5518	1,1						
76,0 a 78,0	5519	1,1						
77,0 a 78,0	5520	0,8						
78,0 a 79,0	5521	0,7						
79,0 a 80,0	5522	1,1						
80,0 a 81,0	5523	1,2						
81,0 a 82,0	5524	1,1						
82,0 a 83,0	5525	1,3						
83,0 a 84,0	5526	0,9						
84,0 a 85,0	5527	2,2						
85,0 a 86,0	5528	1,7						
86,0 a 87,0	5529	2,3						
87,0 a 88,0	5530	2,4						
88,0 a 89,0	5531	1,3						
89,0 a 90,0	5532	2,2						
90,0 a 91,0	5533	1,5						
91,0 a 92,0	5534	1,2						
92,0 a 93,0	5535	1,9						
93,0 a 94,0	5536	1,4						
94,0 a 95,0	5537	1,9						
95,0 a 96,15	5538	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-073-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5606/75	24,5						52,0
1,0 a 2,0	5607	23,6						44,5
2,0 a 3,0	5608	21,5						53,6
3,0 a 4,0	5609	19,3						55,1
4,0 a 5,0	5610	20,0						52,5
5,0 a 6,0	5611	21,4						60,2
6,0 a 7,0	5612	21,4						57,5
7,0 a 8,0	5613	20,3						53,0
8,0 a 9,0	5614	20,9						51,4
9,0 a 10,0	5615	22,0						55,0
10,0 a 11,0	5616	19,6						52,7
11,0 a 12,0	5617	16,8						54,9
12,0 a 13,0	5618	12,7						67,5
13,0 a 14,0	5619	14,5						63,5
14,0 a 15,0	5620	14,2						61,2
15,0 a 16,0	5621	16,1						63,4
16,0 a 17,0	5622	13,1						66,9
17,0 a 18,0	5623	13,9						66,0

Cont. Furo: 2148-PM-073-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5624/75	14,8						63,9
19,0 a 20,0	5625	12,5						66,0
20,0 a 21,0	5626	15,3						
21,0 a 22,0	5627	18,5						
22,0 a 23,0	5628	10,0						
23,0 a 24,0	5629	13,1						
24,0 a 25,0	5630	12,3						
25,0 a 26,0	5631	13,3						
26,0 a 27,0	5632	10,0						
27,0 a 28,0	5633	11,2						
28,0 a 29,0	5634	14,2						
29,0 a 30,0	5635	18,9						
30,0 a 31,0	5636	13,0						
31,0 a 32,0	5637	9,1						
32,0 a 33,0	5638	10,0						
33,0 a 34,0	5639	11,6						
34,0 a 35,0	5640	12,8						
35,0 a 36,0	5641	13,3						
36,0 a 37,0	5642	7,0						
37,0 a 38,0	5643	5,4						
38,0 a 39,0	5644	1,7						
39,0 a 40,0	5645	2,8						
40,0 a 41,0	5646	0,8						
41,0 a 42,0	5647	1,7						
42,0 a 43,0	5648	1,1						
43,0 a 44,0	5649	2,8						
44,0 a 45,0	5650	1,8						
45,0 a 46,0	5651	0,8						

Cont. Furo: 2148-PM-073-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	5652/75	1,3						
47,0 a 48,0	5653	1,0						
48,0 a 49,0	5654	2,3						
49,0 a 50,0	5655	2,1						
50,0 a 51,0	5656	1,0						
51,0 a 52,0	5657	1,2						
52,0 a 53,0	5658	1,7						
53,0 a 54,0	5659	2,3						
54,0 a 55,0	5660	0,9						
55,0 a 56,0	5661	<0,5						
56,0 a 57,0	5662	<0,5						
57,0 a 58,40	5663	<0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-074-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A. 2%
		P_2O_5	CaO	Al_2O_3	Fe_2O_3	F	CO_2	
0,0 a 1,0	5667/75	16,8						
1,0 a 2,0	5668	14,2						
2,0 a 3,0	5669	15,1						
3,0 a 4,0	5670	14,5						
4,0 a 5,0	5671	15,0						
5,0 a 6,0	5672	14,3						
6,0 a 7,0	5673	14,0						
7,0 a 8,0	5674	12,9						
8,0 a 9,0	5675	11,9						
9,0 a 10,0	5676	15,8						
10,0 a 11,0	5677	14,6						
11,0 a 12,0	5678	11,0						
12,0 a 13,0	5679	8,9						
13,0 a 14,0	5680	16,6						
14,0 a 15,0	5681	10,5						
15,0 a 16,0	5682	11,3						
16,0 a 17,0	5683	12,1						
17,0 a 18,0	5684	9,6						
18,0 a 19,0	5685	3,9						

Cont. Furo: 2148-PM-074-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	5686/75	4,9						
20,0 a 21,0	5687	9,9						
21,0 a 22,0	5688	15,3						
22,0 a 23,0	5689	8,7						
23,0 a 24,0	5690	7,3						
24,0 a 25,0	5691	3,7						
25,0 a 26,0	5692	3,9						
26,0 a 27,0	5693	3,5						
27,0 a 28,0	5694	2,5						
28,0 a 29,0	5695	1,7						
29,0 a 30,0	5696	1,8						
30,0 a 31,0	6006	1,6						
31,0 a 32,0	5697	1,3						
32,0 a 33,0	5698	2,0						
33,0 a 34,0	5699	1,1						
34,0 a 35,0	5700	1,2						
35,0 a 36,0	5701	0,8						
36,0 a 37,0	5702	<0,5						
37,0 a 38,0	5703	0,9						
38,0 a 39,0	5704	1,0						
39,0 a 40,20	5705	0,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAFEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-075-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5709/75	3,3						
1,0 a 2,0	5710	2,8						
2,0 a 3,0	5711	5,1						
3,0 a 4,0	5712	5,1						
4,0 a 5,0	5713	6,0						
5,0 a 6,0	5714	5,8						
6,0 a 7,0	5715	7,3						
7,0 a 8,0	5716	7,7						
8,0 a 9,0	5717	6,5						
9,0 a 10,0	5718	6,5						
10,0 a 11,0	5719	6,5						
11,0 a 12,0	5720	8,6						
12,0 a 13,0	5721	8,0						
13,0 a 14,0	5722	8,5						
14,0 a 15,0	5723	7,7						
15,0 a 16,0	5724	7,9						
16,0 a 17,0	5725	8,0						

Cont. Furo: 2148-FM-075-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	5726/75	7,4						
18,0 a 19,0	5727	7,3						
19,0 a 20,0	5728	8,0						
20,0 a 21,0	5729	7,7						
21,0 a 22,0	5730	8,8						
22,0 a 23,0	5731	9,0						
23,0 a 24,0	5732	11,0						
24,0 a 25,0	5733	11,8						
25,0 a 26,0	5734	8,9						
26,0 a 27,0	5735	9,2						
27,0 a 28,0	5736	9,2						
28,0 a 29,0	5737	8,5						
29,0 a 30,0	5738	9,7						
30,0 a 31,0	5739	10,7						
31,0 a 32,0	5740	9,5						
32,0 a 33,0	5741	9,1						
33,0 a 34,0	5742	8,9						
34,0 a 35,0	5743	10,6						
35,0 a 36,0	5744	10,8						
36,0 a 37,0	5745	14,0						
37,0 a 38,0	5746	12,6						
38,0 a 39,0	5747	10,4						
39,0 a 40,0	5748	12,3						
40,0 a 41,0	5749	9,0						
41,0 a 42,0	5750	9,2						
42,0 a 43,0	5751	7,2						
43,0 a 44,0	5752	5,9						

Cont. Furo:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	5753/75	6,3						
45,0 a 46,0	5754	6,2						
46,0 a 47,0	5755	5,9						
47,0 a 48,60	5756	6,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA/COLORIMETRIA

FURO DE SONDA: 3148-PM-076-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5761/75	5,0						
1,0 a 2,0	5762	6,3						
2,0 a 3,0	5763	12,0						
3,0 a 4,0	5764	10,5						
4,0 a 5,0	5765	13,3						
5,0 a 6,0	5766	17,6						
6,0 a 7,0	5767	17,3						
7,0 a 8,0	5768	22,7						
8,0 a 9,0	5769	17,5						
9,0 a 10,0	5770	21,5						
10,0 a 11,0	5771	21,3						
11,0 a 12,0	5772	18,2						
12,0 a 13,0	5773	12,7						
13,0 a 14,0	5774	12,7						
14,0 a 15,0	5775	17,1						
15,0 a 16,0	5776	11,3						
16,0 a 17,0	5777	14,7						
17,0 a 18,0	5778	16,4						

Cont. Furo: 2148-FM-076-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5779/75	13,1						
19,0 a 20,0	5780	16,1						
20,0 a 21,0	5781	14,8						
21,0 a 22,0	5782	10,2						
22,0 a 23,0	5783	12,8						
23,0 a 24,0	5784	18,5						
24,0 a 25,0	5785	10,8						
25,0 a 26,0	5786	11,3						
26,0 a 27,0	5787	12,6						
27,0 a 28,0	5788	11,3						
28,0 a 29,0	5789	6,5						
29,0 a 30,0	5790	3,7						
30,0 a 31,0	5791	5,3						
31,0 a 32,0	5792	6,6						
32,0 a 33,5	5793	7,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPTEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-077-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5796/75	14,9						
1,0 a 2,0	5797	11,5						
2,0 a 3,0	5798	11,7						
3,0 a 4,0	5799	14,8						
4,0 a 5,0	5800	12,6						
5,0 a 6,0	5801	13,1						
6,0 a 7,0	5802	13,9						
7,0 a 8,0	5803	11,2						
8,0 a 9,0	5804	9,9						
9,0 a 10,0	5805	14,5						
10,0 a 11,0	5806	14,2						
11,0 a 12,0	5807	16,4						
12,0 a 13,0	5808	16,6						
13,0 a 14,0	5809	13,7						
14,0 a 15,0	5810	12,6						
15,0 a 16,0	5811	14,1						
16,0 a 17,0	5812	10,8						
17,0 a 18,0	5813	13,4						

Cont. Furo: 2148-PM-077-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5814/75	13,2						
19,0 a 20,0	5815	10,4						
20,0 a 21,0	5816	13,5						
21,0 a 22,0	5817	18,5						
22,0 a 23,0	5818	14,3						
23,0 a 24,0	5819	21,2						
24,0 a 25,0	5820	22,7						
25,0 a 26,0	5821	20,2						
26,0 a 27,0	5822	20,3						
27,0 a 28,0	5823	17,5						
28,0 a 29,0	5824	14,3						
29,0 a 30,0	5825	15,0						
30,0 a 31,0	5826	17,2						
31,0 a 32,0	5827	16,8						
32,0 a 33,0	5828	16,6						
33,0 a 34,0	5829	16,1						
34,0 a 35,0	5830	17,3						
35,0 a 36,0	5831	14,0						
36,0 a 37,0	5832	14,7						
37,0 a 38,0	5833	5,5						
38,0 a 39,0	5834	2,7						
39,0 a 40,0	5835	4,5						
40,0 a 41,0	5836	3,5						
41,0 a 42,0	5837	3,0						
42,0 a 43,0	5838	3,5						
43,0 a 44,0	5839	3,4						
44,0 a 45,50	5840	6,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA/COLORIMETRIA

FURO DE SONDA: 2148-PM-078-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5889/75	16,6						
1,0 a 2,0	5890	18,9						
2,0 a 3,0	5891	18,5						
3,0 a 4,0	5892	19,8						
4,0 a 5,0	5893	21,5						
5,0 a 6,0	5894	21,5						
6,0 a 7,0	5895	20,4						
7,0 a 8,0	5896	17,8						
8,0 a 9,0	5897	15,2						
9,0 a 10,0	5898	11,8						
10,0 a 11,0	5899	21,2						
11,0 a 12,0	5890	24,6						
12,0 a 13,0	5901	23,2						
13,0 a 14,0	5902	22,0						
14,0 a 15,0	5903	18,2						
15,0 a 16,0	5904	18,2						
16,0 a 17,0	5905	14,7						
17,0 a 18,0	5906	15,4						

Cont. Furo: 2148-PM-078-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5907/75	17,0						
19,0 a 20,0	5908	18,8						
20,0 a 21,0	5909	19,4						
21,0 a 22,0	5910	19,6						
22,0 a 23,0	5011	20,1						
23,0 a 24,0	5912	17,4						
24,0 a 25,0	5913	16,7						
25,0 a 26,0	5914	22,2						
26,0 a 27,0	5915	22,3						
27,0 a 28,0	5916	21,9						
28,0 a 29,0	5917	17,0						
29,0 a 30,0	5918	15,3						
30,0 a 31,0	5919	14,9						
31,0 a 32,0	5920	16,3						
32,0 a 33,0	5921	15,7						
33,0 a 34,0	5922	15,8						
34,0 a 35,0	5923	15,0						
35,0 a 36,0	5924	16,5						
36,0 a 37,0	5925	19,0						
37,0 a 38,0	5926	19,0						
38,0 a 39,0	5927	21,5						
39,0 a 40,0	5928	16,7						
40,0 a 41,0	5929	14,3						
41,0 a 42,0	5930	13,3						
42,0 a 43,0	5931	13,7						
43,0 a 44,0	5932	12,5						
44,0 a 45,0	5933	12,2						

Cont. Furo: 2148-PM-078-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	5934/75	11,1						
46,0 a 47,0	5935	16,2						
47,0 a 48,0	5936	14,1						
48,0 a 49,0	5937	13,5						
49,0 a 50,0	5938	15,2						
50,0 a 51,0	5939	13,3						
51,0 a 52,0	5940	11,9						
52,0 a 53,0	5941	13,5						
53,0 a 54,0	5942	12,2						
54,0 a 55,0	5943	10,6						
55,0 a 56,0	5944	3,0						
56,0 a 57,0	5945	4,3						
57,0 a 58,0	5946	3,4						
58,0 a 59,0	5947	3,0						
59,0 a 60,0	5948	4,5						
60,0 a 61,0	5949	8,0						
61,0 a 62,0	5950	3,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PK-079-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6143/75	19,8						
1,0 a 2,0	6144	18,2						
2,0 a 3,0	6145	19,1						
3,0 a 4,0	6146	14,5						
4,0 a 5,0	6147	14,6						
5,0 a 6,0	6148	15,9						
6,0 a 7,0	6149	15,5						
7,0 a 8,0	6150	19,1						
8,0 a 9,0	6151	20,0						
9,0 a 10,0	6152	19,5						
10,0 a 11,0	6153	23,7						
11,0 a 12,0	6154	22,2						
12,0 a 13,0	6155	19,9						
13,0 a 14,0	6156	18,1						
14,0 a 15,0	6157	21,1						
15,0 a 16,0	6158	18,6						
16,0 a 17,0	6159	18,6						

Cont. Furo: 2148-PM-079-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	6160/75	21,1						
18,0 a 19,0	6161	20,9						
19,0 a 20,0	6162	20,9						
20,0 a 21,0	6163	20,9						
21,0 a 22,0	6164	21,4						
22,0 a 23,0	6165	20,6						
23,0 a 24,0	6166	20,8						
24,0 a 25,0	6167	20,2						
25,0 a 26,0	6168	20,2						
26,0 a 27,0	6169	18,1						
27,0 a 28,0	6170	20,2						
28,0 a 29,0	6171	19,4						
29,0 a 30,0	6172	18,8						
30,0 a 31,0	6173	20,9						
31,0 a 32,0	6174	19,9						
32,0 a 33,0	6175	18,6						
33,0 a 34,0	6176	21,3						
34,0 a 35,0	6177	21,6						
35,0 a 36,0	6178	21,3						
36,0 a 37,0	6179	19,1						
37,0 a 38,0	6180	21,8						
38,0 a 39,0	6181	18,4						
39,0 a 40,0	6182	18,9						
40,0 a 41,0	6183	17,8						
41,0 a 42,0	6184	17,5						
42,0 a 43,0	6185	17,7						

Cont. Furo: 2118-PI-079-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
43,0 a 44,0	6186/75	21,1						
44,0 a 45,0	6187	18,5						
45,0 a 46,0	6188	16,5						
46,0 a 47,0	6189	18,1						
47,0 a 48,0	6190	20,5						
48,0 a 49,0	6191	17,8						
49,0 a 50,0	6192	16,4						
50,0 a 51,0	6193	18,3						
51,0 a 52,0	6194	19,3						
52,0 a 53,0	6195	20,2						
53,0 a 54,0	6196	17,9						
54,0 a 55,0	6197	19,0						
55,0 a 56,0	6198	19,0						
56,0 a 57,0	6199	18,9						
57,0 a 58,0	6200	15,9						
58,0 a 59,0	6201	21,4						
59,0 a 60,0	6202	18,3						
60,0 a 61,0	6203	18,6						
61,0 a 62,0	6204	16,7						
62,0 a 63,0	6205	20,7						
63,0 a 64,0	6206	20,1						
64,0 a 65,0	6207	16,9						
65,0 a 66,0	6208	18,5						
66,0 a 67,0	6209	20,1						
67,0 a 68,0	6210	18,9						
68,0 a 69,0	6211	19,9						
69,0 a 70,0	6212	16,6						

Cont. Furo: 2148-EM-079-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
70,0 a 71,0	6213/75	20,0						
71,0 a 72,0	6214	18,5						
72,0 a 73,0	6215	19,6						
73,0 a 74,0	6216	18,8						
74,0 a 75,0	6217	18,5						
75,0 a 76,0	6218	15,5						
76,0 a 77,0	6219	21,4						
77,0 a 78,0	6220	15,5						
78,0 a 79,0	6221	17,4						
79,0 a 80,0	6222	13,4						
80,0 a 81,0	6223	6,1						
81,0 a 82,0	6224	18,9						
82,0 a 83,0	6225	20,8						
83,0 a 84,0	6226	19,1						
84,0 a 85,0	6227	23,1						
85,0 a 86,0	6228	24,7						
86,0 a 87,0	6229	22,9						
87,0 a 88,0	6230	29,1						
88,0 a 89,0	6231	28,9						
89,0 a 90,0	6232	16,5						
90,0 a 91,0	6233	13,3						
91,0 a 92,0	6234	3,0						
92,0 a 93,0	6235	5,2						
93,0 a 94,0	6236	10,2						
94,0 a 95,0	6237	8,2						
95,0 a 96,0	6238	10,6						
96,0 a 97,0	6239	7,7						

Cont. Furo: 2148-PT-079-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
97,0 a 98,0	6240/75	6,0						
98,0 a 99,0	6241	6,8						
99,0 a 100,0	6242	9,1						
100,0 a 101,0	6243	10,0						
101,0 a 102,0	6244	5,3						
102,0 a 103,0	6245	8,5						
103,0 a 104,0	6246	6,7						
104,0 a 105,0	6247	11,7						
105,0 a 106,0	6248	5,9						
106,0 a 107,0	6249	6,6						
107,0 a 108,0	6250	5,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE
PROJETO PATOS DE MINAS
BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-080-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5956/75	16,6						22,3
1,0 a 2,0	5957	18,6						63,5
2,0 a 3,0	5958	17,8						55,7
3,0 a 4,0	5959	16,5						64,1
4,0 a 5,0	5960	16,1						63,3
5,0 a 6,0	5961	12,0						67,2
6,0 a 7,0	5962	10,0						64,8
7,0 a 8,0	5963	9,5						70,5
8,0 a 9,0	5964	9,8						72,6
9,0 a 10,0	5965	9,6						57,0
10,0 a 11,0	5966	11,1						67,3
11,0 a 12,0	5967	9,6						66,7
12,0 a 13,0	5968	10,6						69,4
13,0 a 14,0	5969	13,9						59,8
14,0 a 15,0	5970	12,5						65,3
15,0 a 16,0	5971	15,5						61,3
16,0 a 17,0	5972	13,3						56,1
17,0 a 18,0	5973	10,9						58,6

Cont. Furo: 2148-PM-080-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	5974/75	11,6						71,8
19,0 a 20,0	5975	8,1						60,6
20,0 a 21,0	5976	6,3						
21,0 a 22,0	5977	7,0						
22,0 a 23,0	5978	8,6						
23,0 a 24,0	5979	9,1						
24,0 a 25,0	5980	5,3						
25,0 a 26,0	5981	5,0						
26,0 a 27,0	5982	7,6						
27,0 a 28,0	5983	8,3						
28,0 a 29,0	5984	2,9						
29,0 a 30,0	5985	3,5						
30,0 a 31,0	5986	8,0						
31,0 a 32,0	5987	4,7						
32,0 a 33,0	5988	4,9						
33,0 a 34,0	5989	4,5						
34,0 a 35,0	5990	8,2						
35,0 a 36,0	5991	5,8						
36,0 a 37,0	5992	6,6						
37,0 a 38,0	5993	14,0						
38,0 a 39,0	5994	5,6						
39,0 a 40,0	5995	3,3						
40,0 a 41,0	5996	7,1						
41,0 a 42,0	5997	4,3						
42,0 a 43,0	5998	4,0						
43,0 a 44,0	5999	4,1						
44,0 a 45,0	6000	2,8						
45,0 a 46,0	6001	3,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-081-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOJ. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6251/75	3,7						0,1
1,0 a 2,0	6252	4,3						3,8
2,0 a 3,0	6253	3,4						1,3
3,0 a 4,0	6254	4,3						7,4
4,0 a 5,0	6255	4,8						4,3
5,0 a 6,0	6256	10,0						0,5
6,0 a 7,0	6257	9,3						1,2
7,0 a 8,0	6258	6,6						0,0
8,0 a 9,0	6259	7,4						0,0
9,0 a 10,0	6260	7,1						0,0
10,0 a 11,0	6261	16,5						64,4
11,0 a 12,0	6262	17,9						54,4
12,0 a 13,0	6263	18,6						56,9
13,0 a 14,0	6264	18,5						46,4
14,0 a 15,0	6265	18,2						60,1
15,0 a 16,0	6266	20,6						58,8
16,0 a 17,0	6267	21,6						60,9
17,0 a 18,0	6268	22,3						49,1

Cont. Furo: 2148-PM-081-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	6269/75	21,4						53,4
19,0 a 20,0	6270	20,3						54,8
20,0 a 21,0	6271	20,3						
21,0 a 22,0	6272	19,2						
22,0 a 23,0	6273	19,8						
23,0 a 24,0	6274	19,9						
24,0 a 25,0	6275	20,1						
25,0 a 26,0	6276	21,5						
26,0 a 27,0	6277	21,0						
27,0 a 28,0	6278	24,5						
28,0 a 29,0	6279	23,5						
29,0 a 30,0	6280	21,2						
30,0 a 31,0	6281	18,3						
31,0 a 32,0	6282	21,2						
32,0 a 33,0	6283	19,4						
33,0 a 34,0	6284	20,3						
34,0 a 35,0	6285	21,6						
35,0 a 36,0	6286	19,3						
36,0 a 37,0	6287	17,2						
37,0 a 38,0	6288	18,8						
38,0 a 39,0	6289	20,5						
39,0 a 40,0	6290	19,1						
40,0 a 41,0	6291	19,2						
41,0 a 42,0	6292	18,3						
42,0 a 43,0	6293	17,5						
43,0 a 44,0	6294	19,4						
44,0 a 45,0	6295	18,5						
45,0 a 46,0	6296	19,0						

Cont. Furo: 2148-PM-081-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	6297/75	17,2						
47,0 a 48,0	6298	17,0						
48,0 a 49,0	6299	14,3						
49,0 a 50,0	6300	11,3						
50,0 a 51,0	6301	11,9						
51,0 a 52,0	6302	11,0						
52,0 a 53,0	6303	20,2						
53,0 a 54,0	6304	15,8						
54,0 a 55,0	6305	10,8						
55,0 a 56,0	6306	8,8						
56,0 a 57,0	6307	6,3						
57,0 a 58,0	6308	3,9						
58,0 a 59,0	6309	3,3						
59,0 a 60,0	6310	3,7						
60,0 a 61,70	6311	3,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPIM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-082-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F.	CO ₂	
0,0 a 1,0	6317/75	17,8						3,5
1,0 a 2,0	6318	13,7						38,6
2,0 a 3,0	6319	12,1						58,3
3,0 a 4,0	6320	15,2						63,6
4,0 a 5,0	6321	15,8						74,0
5,0 a 6,0	6322	14,9						57,9
6,0 a 7,0	6323	13,0						63,0
7,0 a 8,0	6324	16,1						59,1
8,0 a 9,0	6325	12,0						59,5
9,0 a 10,0	6326	12,7						59,0
10,0 a 11,0	6327	16,5						55,7
11,0 a 12,0	6328	10,7						59,5
12,0 a 13,0	6329	14,5						37,4
13,0 a 14,0	6330	14,6						56,8
14,0 a 15,0	6331	9,3						67,1
15,0 a 16,0	6332	15,3						56,0
16,0 a 17,0	6333	13,1						59,1

Cont. Furo: 2148-EL-082-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	6334/75	17,6						58,7
18,0 a 19,0	6335	16,7						47,7
19,0 a 20,0	6336	15,0						59,4
20,0 a 21,0	6337	17,3						
21,0 a 22,0	6338	9,1						
22,0 a 23,0	6339	14,0						
23,0 a 24,0	6340	10,4						
24,0 a 25,0	6341	11,1						
25,0 a 26,0	6342	14,6						
26,0 a 27,0	6343	17,8						
27,0 a 28,0	6344	19,6						
28,0 a 29,0	6345	19,3						
29,0 a 30,0	6346	19,5						
30,0 a 31,0	6347	17,6						
31,0 a 32,0	6348	19,0						
32,0 a 33,0	6349	19,3						
33,0 a 34,0	6350	21,1						
34,0 a 35,0	6351	19,1						
35,0 a 36,0	6352	18,0						
36,0 a 37,0	6353	18,6						
37,0 a 38,0	6354	21,1						
38,0 a 39,0	6355	15,5						
39,0 a 40,0	6356	19,1						
40,0 a 41,0	6357	19,5						
41,0 a 42,0	6358	20,3						
42,0 a 43,0	6359	20,8						
43,0 a 44,0	6360	19,2						

Cont. Furo: 2148-PM-082-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	6361/75	17,5						
45,0 a 46,0	6362	17,2						
46,0 a 47,0	6363	17,3						
47,0 a 48,0	6364	16,5						
48,0 a 49,0	6365	14,6						
49,0 a 50,0	6366	13,4						
50,0 a 51,0	6367	16,6						
51,0 a 52,0	6368	12,9						
52,0 a 53,0	6369	11,9						
53,0 a 54,0	6370	9,1						
54,0 a 55,0	6371	15,5						
55,0 a 56,0	6372	12,9						
56,0 a 57,0	6373	13,3						
57,0 a 58,0	6364	11,0						
58,0 a 59,0	6375	5,4						
59,0 a 60,55	6376	5,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-083-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6429/75	15,2						21,7
1,0 a 2,0	6430	15,8						31,2
2,0 a 3,0	6431	17,3						48,7
3,0 a 4,0	6432	18,6						56,3
4,0 a 5,0	6433	17,2						62,9
5,0 a 6,0	6434	11,7						63,2
6,0 a 7,0	6435	11,0						70,1
7,0 a 8,0	6436	11,0						69,1
8,0 a 9,0	6437	16,3						59,6
9,0 a 10,0	6438	10,6						66,0
10,0 a 11,0	6439	10,6						66,0
11,0 a 12,0	6440	6,5						78,7
12,0 a 13,0	6441	9,7						51,2
13,0 a 14,0	6442	11,0						53,3
14,0 a 15,0	6443	9,3						69,9
15,0 a 16,0	6444	9,7						67,2
16,0 a 17,0	6445	8,2						63,5
17,0 a 18,0	6446	11,2						63,0

Cont. Furo: 2148-PM-083-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	6447/75	12,0						65,6
19,0 a 20,0	6448	12,1						63,6
20,0 a 21,0	6449	12,8						
21,0 a 22,0	6450	9,5						
22,0 a 23,0	6451	9,0						
23,0 a 24,0	6452	10,6						
24,0 a 25,0	6453	9,0						
25,0 a 26,0	6454	10,8						
26,0 a 27,0	6455	11,1						
27,0 a 28,0	6456	16,1						
28,0 a 29,0	6457	12,9						
29,0 a 30,0	6458	14,0						
30,0 a 31,0	6459	13,2						
31,0 a 32,0	6460	10,3						
32,0 a 33,0	6461	9,2						
33,0 a 34,0	6462	12,2						
34,0 a 35,0	6463	11,0						
35,0 a 36,0	6464	14,9						
36,0 a 37,0	6465	10,4						
37,0 a 38,0	6466	11,1						
38,0 a 39,0	6467	10,7						
39,0 a 40,0	6468	15,5						
40,0 a 41,0	6469	15,9						
41,0 a 42,0	6470	16,2						
42,0 a 43,0	6471	17,7						
43,0 a 44,0	6472	17,0						
44,0 a 45,0	6473	20,0						
45,0 a 46,0	6474	15,9						

Cont. Furo: 2148-PM-083-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	6475/75	13,8						
47,0 a 48,0	6476	14,4						
48,0 a 49,0	6477	18,9						
49,0 a 50,0	6478	15,2						
50,0 a 51,0	6479	15,0						
51,0 a 52,0	6480	18,0						
52,0 a 53,0	6481	21,1						
53,0 a 54,0	6482	19,3						
54,0 a 55,0	6483	19,0						
55,0 a 56,0	6484	14,0						
56,0 a 57,0	6485	12,1						
57,0 a 58,0	6486	16,4						
58,0 a 59,0	6487	18,5						
59,0 a 60,0	6488	17,4						
60,0 a 61,0	6489	17,0						
61,0 a 62,0	6490	16,0						
62,0 a 63,0	6491	16,8						
63,0 a 64,0	6492	20,0						
64,0 a 65,0	6493	17,1						
65,0 a 66,0	6494	17,6						
66,0 a 67,0	6495	16,4						
67,0 a 68,0	6496	17,6						
68,0 a 69,0	6497	19,3						
69,0 a 70,0	6498	26,8						
70,0 a 71,0	6499	25,8						
71,0 a 72,0	6500	21,4						
72,0 a 73,0	6501	15,4						
73,0 a 74,0	6502	12,8						

Cont. Furo: 2148-PM-083-MG

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COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-084-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6513/75	23,5						
1,0 a 2,0	6514	22,0						
2,0 a 3,0	6515	15,0						
3,0 a 4,0	6516	10,4						
4,0 a 5,0	6517	11,8						
5,0 a 6,0	6518	10,3						
6,0 a 7,0	6519	13,3						
7,0 a 8,0	6520	14,2						
8,0 a 9,0	6521	12,5						
9,0 a 10,0	6522	2,2						
10,0 a 11,0	6523	6,0						
11,0 a 12,0	6524	5,6						
12,0 a 13,0	6525	10,2						
13,0 a 14,0	6526	4,2						
14,0 a 15,0	6527	10,2						
15,0 a 16,0	6528	16,7						
16,0 a 17,0	6529	7,3						
17,0 a 18,0	6530	10,6						
18,0 a 19,0	6531	3,0						

Cont. Furo: 2148-PM-084-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	6532/75	8,3						
20,0 a 21,0	6533	10,3						
21,0 a 22,0	6534	12,7						
22,0 a 23,0	6535	12,9						
23,0 a 24,0	6536	11,3						
24,0 a 25,0	6537	5,2						
25,0 a 26,0	6538	6,8						
26,0 a 27,0	6539	10,5						
27,0 a 28,0	6540	13,0						
28,0 a 29,0	6541	2,2						
29,0 a 30,0	6542	1,8						
30,0 a 31,0	6543	4,3						
31,0 a 32,0	6544	9,8						
32,0 a 33,0	6545	10,6						
33,0 a 34,0	6546	9,3						
34,0 a 35,0	6547	7,6						
35,0 a 36,0	6548	9,6						
36,0 a 37,0	6549	15,3						
37,0 a 38,0	6550	11,6						
38,0 a 39,0	6551	12,0						
39,0 a 40,0	6552	11,7						
40,0 a 41,0	6553	9,8						
41,0 a 42,0	6554	5,0						
42,0 a 43,0	6555	3,5						
43,0 a 44,0	6556	13,5						
44,0 a 45,0	6557	2,1						
45,0 a 46,0	6558	14,2						
46,0 a 47,0	6559	7,5						
47,0 a 48,0	6560	8,7						
48,0 a 49,0	6561	5,8						

Cont. Furo: 2148-PM-084-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
49,0 a 50,0	6562/75	3,3						
50,0 a 51,0	6563	4,4						
51,0 a 52,0	6564	4,0						
52,0 a 53,0	6565	4,2						
53,0 a 54,0	6566	5,6						
54,0 a 55,0	6567	4,6						
55,0 a 56,0	6568	5,5						
56,0 a 57,0	6569	6,8						
57,0 a 58,0	6570	6,7						
58,0 a 59,0	6571	5,5						
59,0 a 60,0	6572	5,5						
60,0 a 61,0	6573	5,5						
61,0 a 62,0	6574	8,1						
62,0 a 63,0	6575	6,5						
63,0 a 64,0	6576	4,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: IAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-085-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6582/75	12,5						12,2
1,0 a 2,0	6583	20,6						3,9
2,0 a 3,0	6584	20,9						2,9
3,0 a 4,0	6585	18,2						30,8
4,0 a 5,0	6586	18,3						56,6
5,0 a 6,0	6587	15,1						56,5
6,0 a 7,0	6588	10,4						64,0
7,0 a 8,0	6589	15,8						61,5
8,0 a 9,0	6590	11,4						60,4
9,0 a 10,0	6591	12,8						64,3
10,0 a 11,0	6592	13,4						61,7
11,0 a 12,0	6593	12,9						60,7
12,0 a 13,0	6594	9,1						68,9
13,0 a 14,0	6595	11,1						66,6
14,0 a 15,0	6596	12,0						61,1
15,0 a 16,0	6597	16,5						50,1
16,0 a 17,0	6598	14,6						63,1

Cont. Furo: 2148-EM-085-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	6599/75	17,5						57,5
18,0 a 19,0	6600	13,8						53,5
19,0 a 20,0	6601	10,5						60,0
20,0 a 21,0	6602	13,2						
21,0 a 22,0	6603	14,8						
22,0 a 23,0	6604	15,8						
23,0 a 24,0	6605	16,1						
24,0 a 25,0	6606	15,8						
25,0 a 26,0	6607	18,0						
26,0 a 27,0	6608	16,7						
27,0 a 28,0	6609	18,5						
28,0 a 29,0	6610	18,1						
29,0 a 30,0	6611	18,3						
30,0 a 31,0	6612	18,7						
31,0 a 32,0	6613	19,9						
32,0 a 33,0	6614	17,5						
33,0 a 34,0	6615	19,0						
34,0 a 35,0	6616	20,0						
35,0 a 36,0	6617	20,5						
36,0 a 37,0	6618	18,7						
37,0 a 38,0	6619	18,9						
38,0 a 39,0	6620	17,3						
39,0 a 40,0	6621	18,6						
40,0 a 41,0	6622	24,7						
41,0 a 42,0	6623	19,5						
42,0 a 43,0	5524	19,0						
43,0 a 44,0	6625	16,3						

Cont. Furo: 2146-MI-085-EG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	6626/75	15,4						
45,0 a 46,0	6627	19,0						
46,0 a 47,0	6628	17,3						
47,0 a 48,0	6629	16,1						
48,0 a 49,0	6630	18,6						
49,0 a 50,0	6631	17,7						
50,0 a 51,0	6632	11,9						
51,0 a 52,0	6633	14,8						
52,0 a 53,0	6634	20,3						
53,0 a 54,0	6635	20,8						
54,0 a 55,0	6636	13,9						
55,0 a 56,0	6637	11,7						
56,0 a 56,90	6638	7,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-086-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6725/75	5,0						
1,0 a 2,0	6726	5,0						
2,0 a 3,0	6727	1,8						
3,0 a 4,0	6728	1,2						
4,0 a 5,0	6729	1,1						
5,0 a 6,0	6730	2,9						
6,0 a 7,0	6731	4,2						
7,0 a 8,0	6732	2,2						
8,0 a 9,0	6733	2,5						
9,0 a 10,0	6734	2,7						
10,0 a 11,0	6735	5,0						
11,0 a 12,0	6736	3,5						
12,0 a 13,0	6737	5,1						
13,0 a 14,0	6738	4,3						
14,0 a 15,0	6739	4,6						
15,0 a 16,0	6740	2,6						
16,0 a 17,0	6741	2,5						

Cont. Furo: 2148-PK-086-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	6742/75	2,3						
18,0 a 19,0	6743	1,6						
19,0 a 20,0	6744	5,9						
20,0 a 21,0	6745	7,5						
21,0 a 22,0	6746	7,8						
22,0 a 23,0	6747	7,2						
23,0 a 24,0	6748	8,2						
24,0 a 25,0	6749	5,1						
25,0 a 26,0	6750	5,4						
26,0 a 27,0	6751	1,3						
27,0 a 28,0	6752	1,3						
28,0 a 29,0	6753	2,3						
29,0 a 30,0	6754	1,1						
31,0 a 31,0	6755	4,0						
31,0 a 32,0	6756	5,8						
32,0 a 33,0	6757	3,7						
33,0 a 34,0	6758	3,7						
34,0 a 35,25	6759	4,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-JM-087-MG

OBSERVAÇÃO: De 53 a 55 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6762/75	20,2						
1,0 a 2,0	6763	20,1						
2,0 a 3,0	6764	14,2						
3,0 a 4,0	6765	21,9						
4,0 a 5,0	6766	23,0						
5,0 a 6,0	6767	20,5						
6,0 a 7,0	6768	18,0						
7,0 a 8,0	6769	17,4						
8,0 a 9,0	6770	18,9						
9,0 a 10,0	6771	17,5						
10,0 a 11,0	6772	20,2						
11,0 a 12,0	6773	16,3						
12,0 a 13,0	6774	17,7						
13,0 a 14,0	6775	18,3						
14,0 a 15,0	6776	17,8						
15,0 a 16,0	6777	16,5						
16,0 a 17,0	6778	17,9						

Cont. Furo: 2148-PM-087-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	6779/75	17,7						
18,0 a 19,0	6780	19,3						
19,0 a 20,0	6781	19,6						
20,0 a 21,0	6782	19,0						
21,0 a 22,0	6783	20,1						
22,0 a 23,0	6784	19,0						
23,0 a 24,0	6785	19,0						
24,0 a 25,0	6786	22,2						
25,0 a 26,0	6787	17,8						
26,0 a 27,0	6788	15,0						
28,0 a 29,0	6789	16,3						
28,0 a 29,0	6790	17,8						
29,0 a 30,0	6791	17,1						
30,0 a 31,0	6792	17,3						
31,0 a 32,0	6793	16,9						
32,0 a 33,0	6794	12,8						
33,0 a 34,0	6795	16,0						
34,0 a 35,0	6796	18,1						
35,0 a 36,0	6797	14,7						
36,0 a 37,0	6798	16,6						
37,0 a 38,0	6799	18,9						
38,0 a 39,0	6800	17,2						
39,0 a 40,0	6801	17,0						
40,0 a 41,0	6802	13,4						
41,0 a 42,0	6803	14,0						
42,0 a 43,0	6804	19,0						
43,0 a 44,0	6805	18,5						

Cont. Furo: 2146-PM-087-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	6806/75	17,0						
45,0 a 46,0	6807	17,5						
46,0 a 47,0	6808	18,7						
47,0 a 48,0	6809	17,5						
48,0 a 49,0	6810	15,8						
49,0 a 50,0	6811	16,8						
50,0 a 51,0	6812	16,3						
51,0 a 52,0	6813	18,2						
52,0 a 53,0	6814	13,4						
53,0 a 54,0								
54,0 a 55,0								
55,0 a 56,0	6815	2,6						
56,0 a 57,0	6816	12,7						
57,0 a 58,0	6817	4,0						
58,0 a 59,20	6818	4,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-088-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7019/75	5,0						
1,0 a 2,0	7020	6,1						
2,0 a 3,0	7021	4,4						
3,0 a 4,0	7022	1,5						
4,0 a 5,0	7023	4,9						
5,0 a 6,0	7024	8,0						
6,0 a 7,0	7025	13,2						
7,0 a 8,0	7026	5,6						
8,0 a 9,0	7027	2,1						
9,0 a 10,0	7028	5,3						
10,0 a 11,0	7029	6,7						
11,0 a 12,0	7030	6,6						
12,0 a 13,0	7031	8,6						
13,0 a 14,0	7032	10,9						
14,0 a 15,0	7033	11,3						
15,0 a 16,0	7034	9,5						
16,0 a 17,0	7035	8,4						
17,0 a 18,0	7036	7,2						
18,0 a 19,0	7037	6,5						
19,0 a 20,0	7038	6,5						

Cont. Furo: 2148-PM-088-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
20,0 a 21,0	7039/75	5,6						
21,0 a 22,0	7040	5,9						
22,0 a 23,0	7041	5,3						
23,0 a 24,0	7042	5,2						
24,0 a 25,0	7043	3,9						
25,0 a 26,0	7044	3,2						
26,0 a 27,0	7045	3,1						
27,0 a 28,0	7046	4,4						
28,0 a 29,0	7047	3,5						
29,0 a 30,0	7048	4,3						
30,0 a 31,0	7049	3,7						
31,0 a 32,0	7050	4,4						
32,0 a 33,0	7051	3,2						
33,0 a 34,0	7052	4,0						
34,0 a 35,0	7053	2,9						
35,0 a 35,95	7054	7,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-089-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7058/75	18,3						
1,0 a 2,0	7059	17,5						
2,0 a 3,0	7060	18,3						
3,0 a 4,0	7061	17,8						
4,0 a 5,0	7062	14,6						
5,0 a 6,0	7063	15,3						
6,0 a 7,0	7064	17,7						
7,0 a 8,0	7065	13,5						
8,0 a 9,0	7066	19,8						
9,0 a 10,0	7067	19,3						
10,0 a 11,0	7068	19,3						
11,0 a 12,0	7069	19,3						
12,0 a 13,0	7070	17,8						
13,0 a 14,0	7071	16,0						
14,0 a 15,0	7072	16,8						
15,0 a 16,0	7073	14,8						
16,0 a 17,0	7074	18,0						
17,0 a 18,0	7075	16,4						

Cont. Furo: 2148-PM-089-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7076/75	21,1						
19,0 a 20,0	7077	24,2						
20,0 a 21,0	7078	24,8						
21,0 a 22,0	7079	20,8						
22,0 a 23,0	7080	19,7						
23,0 a 24,0	7081	16,5						
24,0 a 25,0	7082	15,6						
25,0 a 26,0	7083	19,7						
26,0 a 27,0	7084	17,3						
27,0 a 28,0	7085	17,6						
28,0 a 29,0	7086	15,5						
29,0 a 30,0	7087	14,8						
30,0 a 31,0	7088	14,4						
31,0 a 32,0	7089	16,1						
32,0 a 33,0	7090	15,7						
33,0 a 34,0	7091	15,1						
34,0 a 35,0	7092	17,9						
35,0 a 36,0	7093	17,5						
36,0 a 37,0	7094	17,2						
37,0 a 38,0	7095	17,7						
38,0 a 39,0	7096	18,3						
39,0 a 40,0	7097	17,6						
40,0 a 41,0	7098	6,7						
41,0 a 42,0	7099	15,2						
42,0 a 43,0	7100	15,3						
43,0 a 44,0	7101	12,1						
44,0 a 45,0	7102	13,0						
45,0 a 46,0	7103	18,3						

Cont. Furo: 2148-PM-089-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	7104/75	19,8						
47,0 a 48,0	7105	20,6						
48,0 a 49,0	7106	20,9						
49,0 a 50,0	7107	23,9						
50,0 a 51,0	7108	25,5						
51,0 a 52,0	7109	21,5						
52,0 a 53,0	7110	18,4						
53,0 a 54,0	7111	18,5						
54,0 a 55,0	7112	17,6						
55,0 a 56,0	7113	17,8						
56,0 a 57,0	7114	17,0						
57,0 a 58,0	7115	17,6						
58,0 a 59,0	7116	19,4						
59,0 a 60,0	7117	19,5						
60,0 a 61,0	7118	21,6						
61,0 a 62,0	7119	19,3						
62,0 a 63,0	7120	15,8						
63,0 a 64,0	7121	17,5						
64,0 a 65,0	7122	17,0						
65,0 a 66,0	7123	21,5						
66,0 a 67,0	7124	20,3						
67,0 a 68,0	7125	20,5						
68,0 a 69,0	7126	17,2						
69,0 a 70,0	7127	17,1						
70,0 a 71,0	7128	15,1						
71,0 a 72,0	7129	20,6						
72,0 a 73,0	7130	23,4						
73,0 a 74,0	7131	21,5						

Cont. Furo: 2148-PM-089-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
74,0 a 75,0	7132/75	20,0						
75,0 a 76,0	7133	20,8						
76,0 a 77,0	7134	19,3						
77,0 a 78,0	7135	21,0						
78,0 a 79,0	7136	23,0						
79,0 a 80,0	7137	20,2						
80,0 a 81,0	7138	17,6						
81,0 a 82,0	7139	19,5						
82,0 a 83,0	7140	19,1						
83,0 a 84,0	7141	18,3						
84,0 a 85,0	7142	17,3						
85,0 a 86,0	7143	16,9						
86,0 a 87,0	7144	18,1						
87,0 a 88,0	7145	19,4						
88,0 a 89,0	7146	17,8						
89,0 a 90,0	7147	17,0						
90,0 a 91,0	7148	16,1						
91,0 a 92,0	7149	15,2						
92,0 a 93,0	7150	17,7						
93,0 a 94,0	7151	18,6						
94,0 a 95,0	7152	21,8						
95,0 a 96,0	7153	15,0						
96,0 a 97,0	7154	18,3						
97,0 a 98,0	7155	9,5						
98,0 a 99,0	7156	9,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-090-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7164/75	16,4						
1,0 a 2,0	7165	16,8						
2,0 a 3,0	7166	13,9						
3,0 a 4,0	7167	9,3						
4,0 a 5,0	7168	11,7						
5,0 a 6,0	7169	11,5						
6,0 a 7,0	7170	16,0						
7,0 a 8,0	7171	11,3						
8,0 a 9,0	7172	12,8						
9,0 a 10,0	7173	15,0						
10,0 a 11,0	7174	19,3						
11,0 a 12,0	7175	16,2						
12,0 a 13,0	7176	16,4						
13,0 a 14,0	7177	16,0						
14,0 a 15,0	7178	17,4						
15,0 a 16,0	7179	15,9						
16,0 a 17,0	7180	14,3						
17,0 a 18,0	7181	12,7						
18,0 a 19,0	7182	12,7						

Cont. Furo: 2148-PM-090-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	7183/75	15,0						
20,0 a 21,0	7184	19,5						
21,0 a 22,0	7185	18,8						
22,0 a 23,0	7186	18,8						
23,0 a 24,0	7187	19,0						
24,0 a 25,0	7188	21,0						
25,0 a 26,0	7189	18,7						
26,0 a 27,0	7190	19,7						
27,0 a 28,0	7191	22,8						
28,0 a 29,0	7192	22,2						
29,0 a 30,0	7193	21,1						
30,0 a 31,0	7194	19,7						
31,0 a 32,0	7195	21,4						
32,0 a 33,0	7196	21,1						
33,0 a 34,0	7197	19,8						
34,0 a 35,0	7198	20,0						
35,0 a 36,0	7199	19,6						
36,0 a 37,0	7200	18,4						
37,0 a 38,0	7201	19,4						
38,0 a 39,0	7202	19,2						
39,0 a 40,0	7203	18,6						
40,0 a 41,0	7204	17,7						
41,0 a 42,0	7205	17,7						
42,0 a 43,0	7206	19,5						
43,0 a 44,0	7207	21,1						
44,0 a 45,0	7208	21,3						
45,0 a 46,0	7209	16,2						
46,0 a 47,0	7210	16,5						
47,0 a 48,0	7211	10,4						

Cont. Furo: 2148-PM-090-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
48,0 a 49,0	7212/75	9,5						
49,0 a 50,0	7213	8,4						
50,0 a 51,0	7214	11,0						
51,0 a 52,0	7215	10,0						
52,0 a 52,9	7216	12,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-091-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7221/75	1,0						
1,0 a 2,0	7222	0,5						
2,0 a 3,0	7223	<0,5						
3,0 a 5,0	7224	<0,5						
4,0 a 5,0	7225	0,6						
5,0 a 6,0	7226	<0,5						
6,0 a 7,0	7227	<0,5						
7,0 a 8,0	7228	0,5						
8,0 a 9,0	7229	0,5						
9,0 a 10,0	7230	0,5						
10,0 a 11,0	7231	<0,5						
11,0 a 12,0	7232	0,6						
12,0 a 13,0	7233	1,0						
13,0 a 14,0	7234	1,5						
14,0 a 15,0	7235	1,5						
15,0 a 16,0	7236	1,7						
16,0 a 17,0	7237	1,1						
17,0 a 18,0	7238	1,1						
18,0 a 19,0	7239	1,5						

Cont. Furo: 2148-FM-091-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	7240/75	2,6						
20,0 a 21,0	7241	1,6						
21,0 a 22,0	7242	1,5						
22,0 a 23,0	7243	3,5						
23,0 a 24,0	7244	4,4						
24,0 a 25,0	7245	3,8						
25,0 a 26,0	7247	4,6						
26,0 a 27,0	7248	7,5						
27,0 a 28,0	7249	7,0						
28,0 a 29,0	7250	2,3						
29,0 a 30,0	7251	2,8						
30,0 a 31,0	7252	5,4						
31,0 a 32,0	7253	2,9						
32,0 a 33,0	7254	3,3						
33,0 a 34,0	7255	7,9						
34,0 a 35,0	7256	2,9						
35,0 a 36,0	7257	3,5						
36,0 a 37,0	7258	5,2						
37,0 a 38,0	7259	4,5						
38,0 a 39,0	7260	3,9						
39,0 a 40,0	7261	1,1						
40,0 a 41,0	7262	2,1						
41,0 a 42,0	7263	1,7						
42,0 a 43,0	7264	1,5						
43,0 a 44,40	7265	0,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-092-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7270/75	17,3						
1,0 a 2,0	7271	17,3						
2,0 a 3,0	7272	17,2						
3,0 a 4,0	7273	15,7						
4,0 a 5,0	7274	17,2						
5,0 a 6,0	7275	17,5						
6,0 a 7,0	7276	14,8						
7,0 a 8,0	7277	13,5						
8,0 a 9,0	7278	16,7						
9,0 a 10,0	7279	15,0						
10,0 a 11,0	7280	12,8						
11,0 a 12,0	7281	13,3						
12,0 a 13,0	7282	13,3						
13,0 a 14,0	7283	13,8						
14,0 a 15,0	7284	14,7						
15,0 a 16,0	7285	15,8						
16,0 a 17,0	7286	15,4						
17,0 a 18,0	7287	15,4						

Cont. Furo: 2140-PH-092-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7288/75	13,4						
19,0 a 20,0	7289	12,9						
20,0 a 21,0	7290	13,8						
21,0 a 22,0	7291	13,7						
22,0 a 23,0	7292	12,0						
23,0 a 24,0	7293	15,2						
24,0 a 25,0	7294	17,6						
25,0 a 26,0	7295	15,5						
26,0 a 27,0	7296	16,9						
27,0 a 28,0	7297	13,6						
28,0 a 29,0	7298	17,7						
29,0 a 30,0	7299	19,7						
30,0 a 31,0	7300	20,0						
31,0 a 32,0	7301	22,5						
32,0 a 33,0	7302	11,4						
33,0 a 34,0	7303	14,6						
34,0 a 35,0	7304	13,6						
35,0 a 36,0	7305	11,3						
36,0 a 37,0	7306	14,2						
37,0 a 38,0	7307	15,7						
38,0 a 39,0	7308	17,6						
39,0 a 40,0	7309	22,3						
40,0 a 41,0	7310	8,5						
41,0 a 42,0	7311	10,0						
42,0 a 43,0	7312	10,0						
43,0 a 44,40	7313	6,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPIEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-093-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6883/75	16,9						19,0
1,0 a 2,0	6884	17,9						49,8
2,0 a 3,0	6885	15,6						67,6
3,0 a 4,0	6886	12,1						65,7
4,0 a 5,0	6887	11,0						68,2
5,0 a 6,0	6888	14,3						60,4
6,0 a 7,0	6889	12,1						70,7
7,0 a 8,0	6890	16,2						67,3
8,0 a 9,0	6891	13,0						61,2
9,0 a 10,0	6892	13,5						75,6
10,0 a 11,0	6893	9,8						59,2
11,0 a 12,0	6894	6,9						62,4
12,0 a 13,0	6895	6,4						73,0
13,0 a 14,0	6896	9,8						63,3
14,0 a 15,0	6897	14,3						57,0
15,0 a 16,0	6898	9,8						62,5
16,0 a 17,0	6899	13,9						61,2

Cont. Furo: 2145-FM-093-11G

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	6900/75	12,0						60,9
18,0 a 19,0	6901	11,6						63,2
19,0 a 20,0	6902	12,8						58,5
20,0 a 21,0	6903	12,4						
21,0 a 22,0	6904	10,4						
22,0 a 23,0	6905	13,9						
23,0 a 24,0	6906	14,7						
24,0 a 25,0	6907	15,3						
25,0 a 26,0	6908	16,7						
26,0 a 27,0	6909	16,7						
27,0 a 28,0	6910	16,1						
28,0 a 29,0	6911	16,3						
29,0 a 30,0	6912	18,9						
30,0 a 31,0	6913	13,0						
31,0 a 32,0	6914	14,0						
32,0 a 33,0	6915	13,5						
33,0 a 34,0	6916	15,7						
34,0 a 35,0	6917	20,6						
35,0 a 36,0	6918	16,0						
36,0 a 37,0	6919	19,5						
37,0 a 38,0	6920	17,0						
38,0 a 39,0	6921	19,1						
39,0 a 40,0	6922	21,0						
40,0 a 41,0	6923	18,2						
41,0 a 42,0	6924	19,2						
42,0 a 43,0	6925	16,6						
43,0 a 44,0	6926	17,9						
44,0 a 45,0	6927	20,5						

Cont. Furo: 21.8-EL-093-16

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	6928/75	20,2						
46,0 a 47,0	6929	18,8						
47,0 a 48,0	6930	18,8						
48,0 a 49,0	6931	18,3						
49,0 a 50,0	6932	19,3						
50,0 a 51,0	6933	15,0						
51,0 a 52,0	6934	17,0						
52,0 a 53,0	6935	17,2						
53,0 a 54,0	6936	18,7						
54,0 a 55,0	6937	19,2						
55,0 a 56,0	6938	15,0						
56,0 a 57,0	6939	7,6						
57,0 a 58,0	6940	6,7						
58,0 a 59,0	6941	8,5						
59,0 a 60,40	6942	7,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-094-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * ÁTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	6948/75	15,0						10,9
1,0 a 2,0	6949	8,9						6,0
2,0 a 3,0	6950	7,5						2,9
3,0 a 4,0	6951	10,8						4,6
4,0 a 5,0	6952	12,3						3,2
5,0 a 6,0	6953	13,2						29,1
6,0 a 7,0	6954	13,4						47,7
7,0 a 8,0	6955	18,8						58,2
8,0 a 9,0	6956	18,2						61,8
9,0 a 10,0	6957	14,2						53,1
10,0 a 11,0	6958	14,3						65,5
11,0 a 12,0	6959	14,8						72,7
12,0 a 13,0	6960	11,8						69,1
13,0 a 14,0	6961	13,5						74,8
14,0 a 15,0	6962	14,2						72,3
15,0 a 16,0	6963	11,3						78,1
16,0 a 17,0	6964	15,0						71,0
17,0 a 18,0	6965	12,7						87,8

Cont. Furo: 2148-PM-094-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	6966/75	15,6						77,6
19,0 a 20,0	6967	15,1						76,7
20,0 a 21,0	6968	12,5						
21,0 a 22,0	6969	18,4						
22,0 a 23,0	6970	14,6						
23,0 a 24,0	6971	15,3						
24,0 a 25,0	6972	15,6						
25,0 a 26,0	6973	14,1						
26,0 a 27,0	6974	12,4						
27,0 a 28,0	6975	16,9						
28,0 a 29,0	6976	14,9						
29,0 a 30,0	6977	11,8						
30,0 a 31,0	6978	16,6						
31,0 a 32,0	6979	12,7						
32,0 a 33,0	6980	12,5						
33,0 a 34,0	6981	15,1						
34,0 a 35,0	6982	16,6						
35,0 a 36,0	6983	13,0						
36,0 a 37,0	6984	14,7						
37,0 a 38,0	6985	11,4						
38,0 a 39,0	6986	10,7						
39,0 a 40,0	6987	11,7						
40,0 a 41,0	6988	13,0						
41,0 a 42,0	6989	12,8						
42,0 a 43,0	6990	12,9						
43,0 a 44,0	6991	8,6						
44,0 a 45,0	6992	7,4						
45,0 a 46,0	6993	7,5						

Cont. Furo: 2148-PM-094-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	6994/75	5,1						
47,0 a 48,0	6995	8,4						
48,0 a 49,0	6996	7,0						
49,0 a 50,0	6997	7,9						
50,0 a 51,0	6998	12,2						
51,0 a 52,0	6999	12,0						
52,0 a 53,0	7000	13,5						
53,0 a 54,0	7001	5,7						
54,0 a 55,0	7002	5,7						
55,0 a 56,0	7003	5,2						
56,0 a 57,0	7004	5,3						
57,0 a 58,0	7005	7,2						
58,0 a 59,0	7006	7,8						
59,0 a 60,0	7007	5,2						
60,0 a 61,0	7008	4,8						
61,0 a 62,0	7009	3,2						
62,0 a 63,0	7010	4,3						
63,0 a 64,0	7011	4,0						
64,0 a 65,65	7012	3,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: EAPIM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-095-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7749/75	7,3						
1,0 a 2,0	7750	8,3						
2,0 a 3,0	7751	8,5						
3,0 a 4,0	7752	9,4						
4,0 a 5,0	7753	10,0						
5,0 a 6,0	7754	8,9						
6,0 a 7,0	7755	7,2						
7,0 a 8,0	7756	8,0						
8,0 a 9,0	7757	4,6						
9,0 a 10,0	6658	7,8						
10,0 a 11,0	7759	6,0						
11,0 a 12,0	7760	6,2						
12,0 a 13,0	7761	7,3						
13,0 a 14,0	7762	9,7						
14,0 a 15,0	7763	7,7						
15,0 a 16,0	7764	7,5						
16,0 a 17,0	7765	7,7						

Cont. Furo: 2148-PM-095-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	7766/75	12,9						
18,0 a 19,0	7767	9,6						
19,0 a 20,0	7768	7,8						
20,0 a 21,0	7769	8,4						
21,0 a 22,0	7770	7,7						
22,0 a 23,0	7771	5,6						
23,0 a 24,0	7772	11,9						
24,0 a 25,0	7773	11,3						
25,0 a 26,0	7774	8,2						
26,0 a 27,0	7775	7,3						
27,0 a 28,0	7776	5,9						
28,0 a 29,0	7777	7,5						
29,0 a 30,0	7778	5,6						
30,0 a 31,0	7779	7,5						
31,0 a 32,0	7781	9,2						
32,0 a 33,0	7782	7,5						
33,0 a 34,0	7783	8,8						
34,0 a 35,0	7784	8,1						
35,0 a 36,0	7785	8,3						
36,0 a 37,0	7786	7,9						
37,0 a 38,0	7787	8,2						
38,0 a 39,0	7788	7,2						
39,0 a 40,0	7789	9,0						
40,0 a 41,0	7790	8,4						
41,0 a 42,0	7791	7,0						
42,0 a 43,0	7792	9,4						
43,0 a 44,0	7793	10,1						

Cont. Furo: 2143-PM-095-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	7794/75	8,5						
45,0 a 46,0	7795	7,6						
46,0 a 47,0	7796	8,5						
47,0 a 48,0	7797	8,2						
48,0 a 49,0	7798	8,2						
49,0 a 50,0	7799	4,7						
50,0 a 51,0	7800	9,5						
51,0 a 52,0	7801	9,4						
52,0 a 53,0	7802	7,0						
53,0 a 54,0	7803	6,0						
54,0 a 55,0	7804	6,1						
55,0 a 56,0	7805	5,7						
56,0 a 57,0	7806	5,1						
57,0 a 58,0	7807	6,5						
58,0 a 59,2	7808	6,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-096-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7528/75	23,1						
1,0 a 2,0	7529	24,7						
2,0 a 3,0	7530	23,0						
3,0 a 4,0	7531	23,9						
4,0 a 5,0	7532	21,4						
5,0 a 6,0	7533	19,7						
6,0 a 7,0	7534	22,4						
7,0 a 8,0	7535	21,6						
8,0 a 9,0	7536	17,8						
9,0 a 10,0	7537	17,8						
10,0 a 11,0	7538	17,0						
11,0 a 12,0	7539	14,9						
12,0 a 13,0	7540	17,2						
13,0 a 14,0	7541	21,5						
14,0 a 15,0	7542	17,3						
15,0 a 16,0	7543	18,1						
16,0 a 17,0	7544	10,9						
17,0 a 18,0	7545	13,0						

Cont. Furo: 2148-FM-096-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7546/75	19,7						
19,0 a 20,0	7547	17,4						
20,0 a 21,0	7548	17,7						
21,0 a 22,0	7549	20,3						
22,0 a 23,0	7550	16,5						
23,0 a 24,0	7551	10,2						
24,0 a 25,0	7552	11,6						
25,0 a 26,0	7553	11,5						
26,0 a 27,0	7554	12,7						
27,0 a 28,0	7555	17,6						
28,0 a 29,0	7556	13,9						
29,0 a 30,0	7557	10,9						
30,0 a 31,0	7558	14,4						
31,0 a 32,0	7559	21,0						
32,0 a 33,0	7560	12,5						
33,0 a 34,0	7561	13,7						
34,0 a 35,0	7562	16,2						
35,0 a 36,0	7563	11,8						
36,0 a 37,0	7564	16,8						
37,0 a 38,0	7565	22,2						
38,0 a 39,0	7566	7,5						
39,0 a 40,0	7567	14,8						
40,0 a 41,0	7568	19,9						
41,0 a 42,0	7569	15,1						
42,0 a 43,0	7570	13,5						
43,0 a 44,0	7571	8,7						
44,0 a 45,0	7572	8,2						

Cont. Furo: 2148-PM-096-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	7573/75	3,5						
46,0 a 47,0	7574	6,1						
47,0 a 48,0	7575	5,8						
48,0 a 49,0	7576	5,6						
49,0 a 50,0	7577	3,5						
50,0 a 51,0	7578	14,2						
51,0 a 52,0	7579	12,4						
52,0 a 53,0	7580	11,9						
53,0 a 54,0	7581	13,0						
54,0 a 55,0	7582	11,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAFREM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-EM-097-HG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7587/75	12,8						
1,0 a 2,0	7588	2,5						
2,0 a 3,0	7589	1,7						
3,0 a 4,0	7590	1,3						
4,0 a 5,0	7591	1,8						
5,0 a 6,0	7592	1,5						
6,0 a 7,0	7593	1,3						
7,0 a 8,0	7594	1,9						
8,0 a 9,0	7595	1,4						
9,0 a 10,0	7596	1,7						
10,0 a 11,0	7597	1,8						
11,0 a 12,0	7598	1,3						
12,0 a 13,0	7599	1,8						
13,0 a 14,0	7600	2,9						
14,0 a 15,0	7601	7,9						
15,0 a 16,0	7602	12,3						
16,0 a 17,0	7603	12,2						

Cont. Furo: 2148-ET-097-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	7604/75	11,2						
18,0 a 19,0	7605	11,4						
19,0 a 20,0	7606	11,3						
20,0 a 21,0	7607	8,9						
21,0 a 22,0	7608	9,5						
22,0 a 23,0	7609	9,4						
23,0 a 24,0	7610	6,7						
24,0 a 25,0	7611	10,4						
25,0 a 26,0	7612	8,8						
26,0 a 27,0	7613	7,5						
27,0 a 28,0	7614	9,8						
28,0 a 29,0	7615	11,6						
29,0 a 30,0	7616	12,5						
30,0 a 31,0	7617	11,2						
31,0 a 32,0	7618	9,7						
32,0 a 33,0	7619	11,3						
33,0 a 34,0	7620	10,7						
34,0 a 35,0	7621	11,0						
35,0 a 36,0	7622	11,6						
36,0 a 37,0	7623	11,0						
37,0 a 38,0	7624	10,5						
38,0 a 39,0	7625	8,3						
39,0 a 40,0	7626	8,0						
40,0 a 41,0	7627	8,3						
41,0 a 42,0	7628	8,5						
42,0 a 43,0	7629	8,8						
43,0 a 44,0	7630	9,8						

Cont. Furo: 2146-PA-097-LG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	7631/75	10,0						
45,0 a 46,0	7632	12,5						
46,0 a 47,0	7633	16,3						
47,0 a 48,0	7634	16,6						
48,0 a 49,0	7635	9,5						
49,0 a 50,0	7636	6,3						
50,0 a 51,0	7637	4,4						
51,0 a 52,0	7638	3,3						
52,0 a 53,0	7639	3,5						
53,0 a 54,0	7640	3,2						
54,0 a 55,0	7641	3,5						
55,0 a 56,25	7642	3,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-098-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7374/75	14,3						
1,0 a 2,0	7375	5,7						
2,0 a 3,0	7376	3,2						
3,0 a 4,0	7377	3,0						
4,0 a 5,0	7378	1,9						
5,0 a 6,0	7379	7,6						
6,0 a 7,0	7380	17,8						
7,0 a 8,0	7381	19,2						
8,0 a 9,0	7382	18,3						
9,0 a 10,0	7383	17,9						
10,0 a 11,0	7384	18,5						
11,0 a 12,0	7385	19,8						
12,0 a 13,0	7386	19,5						
13,0 a 14,0	7387	17,0						
14,0 a 15,0	7388	14,7						
15,0 a 16,0	7389	19,6						
16,0 a 17,0	7390	17,1						
17,0 a 18,0	7391	14,7						
18,0 a 19,0	7392	13,1						

Cont. Furo: 2148-PM-098-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	7393/75	15,7						
20,0 a 21,0	7394	13,8						
21,0 a 22,0	7395	16,0						
22,0 a 23,0	7396	16,0						
23,0 a 24,0	7397	18,8						
24,0 a 25,0	7398	17,7						
25,0 a 26,0	7399	15,7						
26,0 a 27,0	7400	16,5						
27,0 a 28,0	7401	19,2						
28,0 a 29,0	7402	14,6						
29,0 a 30,0	7403	7,7						
30,0 a 31,0	7404	11,8						
31,0 a 32,0	7405	16,9						
32,0 a 33,0	7406	18,0						
33,0 a 34,0	7407	14,7						
34,0 a 35,0	7408	14,7						
35,0 a 36,0	7409	16,7						
36,0 a 37,0	7410	16,9						
37,0 a 38,0	7411	18,8						
38,0 a 39,0	7412	14,3						
39,0 a 40,0	7413	17,0						
40,0 a 41,0	7414	17,2						
41,0 a 42,0	7415	15,2						
42,0 a 43,0	7416	20,1						
43,0 a 44,0	7417	14,1						
44,0 a 45,0	7418	19,0						
45,0 a 46,0	7419	17,2						
46,0 a 47,0	7420	18,6						

Cont. Furo: 2148-PM-098-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
47,0 a 48,0	7421/75	16,3						
48,0 a 49,0	7422	18,5						
49,0 a 50,0	7423	18,7						
50,0 a 51,0	7424	18,7						
51,0 a 52,0	7425	20,2						
52,0 a 53,0	7426	19,0						
53,0 a 54,0	7427	16,9						
54,0 a 55,0	7428	14,4						
55,0 a 56,0	7429	16,4						
56,0 a 57,0	7430	15,5						
57,0 a 58,0	7431	17,9						
58,0 a 59,0	7432	18,6						
59,0 a 60,0	7433	21,7						
60,0 a 61,0	7434	21,6						
61,0 a 62,0	7435	22,0						
62,0 a 63,0	7436	20,6						
63,0 a 64,0	7437	18,5						
64,0 a 65,0	7438	19,7						
65,0 a 66,0	7439	21,0						
66,0 a 67,0	7440	19,4						
67,0 a 68,0	7441	19,8						
68,0 a 69,0	7442	18,2						
69,0 a 70,0	7443	18,8						
70,0 a 71,0	7444	19,0						
71,0 a 72,0	7445	19,0						
72,0 a 73,0	7446	19,3						
73,0 a 74,0	7447	19,3						
74,0 a 75,0	7448	19,6						
75,0 a 76,0	7449	19,0						

Cont. Furo: 2148-PM-098-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
76,0 a 77,0	7450/75	18,5						
77,0 a 78,0	7451	15,5						
78,0 a 79,0	7452	15,5						
79,0 a 80,0	7453	21,2						
80,0 a 81,0	7454	14,4						
81,0 a 82,10	7455	7,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-099-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICO: A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7813/75	1,3						
1,0 a 2,0	7814	1,8						
2,0 a 3,0	7815	1,7						
3,0 a 4,0	7816	1,8						
4,0 a 5,0	7817	1,5						
5,0 a 6,0	7818	1,6						
6,0 a 7,0	7819	2,2						
7,0 a 8,0	7820	1,8						
8,0 a 9,0	7821	2,1						
9,0 a 10,0	7822	2,0						
10,0 a 11,0	7823	1,8						
11,0 a 12,0	7824	1,8						
12,0 a 13,0	7825	2,1						
13,0 a 14,0	7826	1,9						
14,0 a 15,0	7827	2,3						
15,0 a 16,0	7822	1,7						
16,0 a 17,0	7829	3,0						
17,0 a 18,0	7830	2,1						

Cont. Furo: 2148-PI-099-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7831/75	1,8						
19,0 a 20,0	7832	1,6						
20,0 a 21,0	7833	1,3						
21,0 a 22,0	7834	1,5						
22,0 a 23,0	7835	1,4						
23,0 a 24,0	7836	2,6						
24,0 a 25,0	7837	2,9						
25,0 a 26,0	7838	2,4						
26,0 a 27,0	7839	2,6						
27,0 a 28,0	7840	2,4						
28,0 a 29,0	7841	2,0						
29,0 a 30,0	7842	1,8						
30,0 a 31,0	7843	2,0						
31,0 a 32,0	7844	1,8						
32,0 a 33,0	7845	1,8						
33,0 a 34,0	7846	1,4						
34,0 a 35,0	7847	1,6						
35,0 a 36,0	7848	1,5						
36,0 a 37,0	7849	1,0						
37,0 a 38,0	7850	1,0						
38,0 a 39,0	7851	1,5						
39,0 a 40,0	7852	5,1						
40,0 a 41,30	7853	1,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-100-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7464/75	13,8						3,2
1,0 a 2,0	7465	9,2						2,8
2,0 a 3,0	7466	10,6						4,0
3,0 a 4,0	7467	15,6						45,9
4,0 a 5,0	7468	12,0						54,3
5,0 a 6,0	7469	14,4						48,8
6,0 a 7,0	7470	17,5						60,4
7,0 a 8,0	7471	14,2						63,0
8,0 a 9,0	4772	17,5						56,2
9,0 a 10,0	7473	19,3						48,3
10,0 a 11,0	7474	17,8						47,9
11,0 a 12,0	7475	20,2						45,9
12,0 a 13,0	4776	18,8						49,3
13,0 a 14,0	7477	9,4						43,0
14,0 a 15,0	7478	15,8						51,3
15,0 a 16,0	7479	12,8						54,3
16,0 a 17,0	7480	14,8						55,0
17,0 a 18,0	7481	18,4						60,2

Cont. Furo: 2148-PM-100-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7482/75	18,2						58,0
19,0 a 20,0	7483	17,4						59,6
20,0 a 21,0	7484	17,5						
21,0 a 22,0	7485	18,2						
22,0 a 23,0	7486	18,6						
23,0 a 24,0	7487	18,1						
24,0 a 25,0	7488	16,8						
25,0 a 26,0	7489	17,7						
26,0 a 27,0	7490	15,4						
27,0 a 28,0	7491	18,5						
28,0 a 29,0	7492	18,9						
29,0 a 30,0	7493	19,3						
30,0 a 31,0	7494	18,5						
31,0 a 32,0	7495	18,9						
32,0 a 33,0	7496	15,6						
33,0 a 34,0	7497	13,3						
34,0 a 35,0	7498	14,5						
35,0 a 36,0	7499	14,9						
36,0 a 37,0	7500	11,8						
37,0 a 38,0	7501	13,3						
38,0 a 39,0	7502	15,0						
39,0 a 40,0	7503	13,9						
40,0 a 41,0	7504	14,8						
41,0 a 42,0	7505	15,0						
42,0 a 43,0	7506	10,8						
43,0 a 44,0	7507	10,0						
44,0 a 45,0	7508	14,8						

Cont. Furo: 2148-PM-100-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	7509/75	10,3						
46,0 a 47,0	7510	12,6						
47,0 a 48,0	7511	12,7						
48,0 a 49,0	7512	12,6						
49,0 a 50,0	7513	12,7						
50,0 a 51,0	7514	14,3						
51,0 a 52,0	7515	14,6						
52,0 a 53,0	7516	14,2						
53,0 a 54,0	7517	10,3						
54,0 a 55,0	7518	9,1						
55,0 a 56,0	7519	6,4						
56,0 a 57,0	7520	4,0						
57,0 a 58,0	7521	3,1						
58,0 a 59,30	7522	2,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-101-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7857/75	4,2						
1,0 a 2,0	7858	1,9						
2,0 a 3,0	7859	1,1						
3,0 a 4,0	7860	0,7						
4,0 a 5,0	7861	0,9						
5,0 a 6,0	7862	1,1						
6,0 a 7,0	7863	1,1						
7,0 a 8,0	7864	1,1						
8,0 a 9,0	7865	1,3						
9,0 a 10,0	7866	1,9						
10,0 a 11,0	7867	2,8						
11,0 a 12,0	7868	2,2						
12,0 a 13,0	7869	1,1						
13,0 a 14,0	7870	1,1						
14,0 a 15,0	7871	1,8						
15,0 a 16,0	7872	2,6						
16,0 a 17,0	7873	3,6						
17,0 a 18,0	7874	2,5						

Cont. Furo: 2148-PM-101-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7875/75	2,1						
19,0 a 20,0	7876	2,0						
20,0 a 21,0	7877	2,3						
21,0 a 22,0	7878	3,3						
22,0 a 23,0	7879	2,3						
23,0 a 24,0	7880	1,9						
24,0 a 25,0	7881	1,9						
25,0 a 26,0	7882	1,7						
26,0 a 27,0	7883	2,0						
27,0 a 28,0	7884	2,1						
28,0 a 29,0	7885	2,1						
29,0 a 30,0	7886	2,0						
30,0 a 31,0	7887	2,0						
31,0 a 32,0	7888	2,5						
32,0 a 33,0	7889	1,7						
33,0 a 34,0	7890	1,4						
34,0 a 35,0	7891	1,2						
35,0 a 36,0	7892	1,5						
36,0 a 37,0	7893	2,4						
37,0 a 38,0	7894	1,5						
38,0 a 39,0	7895	1,1						
39,0 a 40,0	7896	0,8						
40,0 a 41,65	7897	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-102-MG

OBSERVAÇÃO: De 40 a 41 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7901/75	1,9						
1,0 a 2,0	7902	1,6						
2,0 a 3,0	7903	1,2						
3,0 a 4,0	7904	2,3						
4,0 a 5,0	7905	1,7						
5,0 a 6,0	7906	0,5						
6,0 a 7,0	7906	1,0						
7,0 a 8,0	7908	2,0						
8,0 a 9,0	7909	1,2						
9,0 a 10,0	7910	1,7						
10,0 a 11,0	7811	2,1						
11,0 a 12,0	7912	1,5						
12,0 a 13,0	1913	1,5						
13,0 a 14,0	7914	1,5						
14,0 a 15,0	7915	2,6						
15,0 a 16,0	1916	1,6						
16,0 a 17,0	7917	1,3						
17,0 a 18,0	1918	1,0						

Cont. Furo: 2148-BH-102-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7919/75	1,0						
19,0 a 20,0	7920	1,2						
20,0 a 21,0	7921	1,2						
21,0 a 22,0	7922	1,1						
22,0 a 23,0	7923	1,7						
23,0 a 24,0	7924	2,0						
24,0 a 25,0	7925	1,5						
25,0 a 26,0	7926	1,8						
26,0 a 27,0	7027	2,2						
27,0 a 28,0	7928	1,8						
28,0 a 29,0	7929	2,1						
29,0 a 30,0	7930	1,9						
30,0 a 31,0	7931	1,6						
31,0 a 32,0	7932	2,1						
32,0 a 33,0	7933	3,4						
33,0 a 34,0	7934	5,4						
34,0 a 35,0	7935	6,5						
35,0 a 36,0	7936	4,3						
36,0 a 37,0	7937	1,5						
37,0 a 38,0	7938	1,7						
38,0 a 39,0	7939	1,0						
39,0 a 40,0	7940	0,6						
40,0 a 41,0								
41,0 a 41,85	7941	1,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-103-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	7946/75	7,0						8,8
1,0 a 2,0	7947	8,6						33,8
2,0 a 3,0	7948	11,3						49,8
3,0 a 4,0	7949	12,3						49,0
4,0 a 5,0	7950	11,2						64,0
5,0 a 6,0	7951	13,1						65,4
6,0 a 7,0	7952	14,3						58,9
7,0 a 8,0	7953	10,3						62,8
8,0 a 9,0	7954	11,8						53,8
9,0 a 10,0	7955	17,3						56,9
10,0 a 11,0	7956	14,7						52,8
11,0 a 12,0	7957	19,9						59,3
12,0 a 13,0	7958	17,4						54,9
13,0 a 14,0	7959	17,1						56,2
14,0 a 15,0	7960	14,8						58,7
15,0 a 16,0	7961	16,0						60,0
16,0 a 17,0	7962	19,3						55,8
17,0 a 18,0	7963	16,3						58,7

Cont. Furo: 2148-PM-103-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	7964/75	18,5						54,1
19,0 a 20,0	7965	20,6						59,3
20,0 a 21,0	7966	19,2						
21,0 a 22,0	7967	18,1						
22,0 a 23,0	7968	17,1						
23,0 a 24,0	7969	14,6						
24,0 a 25,0	7970	16,4						
25,0 a 26,0	7971	14,3						
26,0 a 27,0	7972	16,7						
27,0 a 28,0	7973	11,6						
28,0 a 29,0	7974	13,5						
29,0 a 30,0	7975	12,6						
30,0 a 31,0	7976	8,6						
31,0 a 32,0	7977	8,2						
32,0 a 33,0	7978	9,2						
33,0 a 34,0	7979	6,3						
34,0 a 35,0	7980	5,9						
35,0 a 36,0	7981	4,4						
36,0 a 37,0	7982	2,9						
37,0 a 38,0	7983	4,8						
38,0 a 39,0	7984	3,8						
39,0 a 40,0	7985	4,0						
40,0 a 41,0	7986	2,5						
41,0 a 42,0	7987	2,0						
42,0 a 43,0	7988	4,8						
43,0 a 44,0	7989	3,7						
44,0 a 45,0	7990	3,3						
45,0 a 46,0	7991	3,5						
46,0 a 47,0	7992	2,3						

Cont. Furo: 2148-PM-103-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
47,0 a 48,0	7993/75	1,4						
48,0 a 49,0	7994	2,5						
49,0 a 50,0	7995	1,9						
50,0 a 51,0	7996	1,7						
51,0 a 52,0	7997	1,5						
52,0 a 53,20	7998	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-104-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8004/75	1,2						
1,0 a 2,0	8005	0,8						
2,0 a 3,0	8006	1,2						
3,0 a 4,0	8007	1,3						
4,0 a 5,0	8008	1,5						
5,0 a 6,0	8009	1,3						
6,0 a 7,0	8010	0,9						
7,0 a 8,0	8011	0,8						
8,0 a 9,0	8012	0,9						
9,0 a 10,0	8013	1,0						
10,0 a 11,0	8014	0,9						
11,0 a 12,0	8015	0,9						
12,0 a 13,0	8016	0,9						
13,0 a 14,0	8017	1,1						
14,0 a 15,0	8018	0,8						
15,0 a 16,0	8019	1,0						
16,0 a 17,0	8020	4,0						
17,0 a 18,0	8021	2,9						

Cont. Furo: 2148-PM-104-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8022/75	2,1						
19,0 a 20,0	8023	2,7						
20,0 a 21,0	8024	2,2						
21,0 a 23,0	8025	1,5						
22,0 a 23,0	8026	3,7						
23,0 a 24,0	8027	4,8						
24,0 a 25,0	8028	4,7						
25,0 a 26,0	8029	4,9						
26,0 a 27,0	8030	3,3						
27,0 a 28,0	8031	4,8						
28,0 a 29,0	8032	4,7						
29,0 a 30,0	8033	2,8						
30,0 a 31,0	8034	1,5						
31,0 a 32,0	8035	1,8						
32,0 a 33,0	8036	6,0						
33,0 a 34,0	8037	2,5						
34,0 a 35,0	8038	2,0						
35,0 a 36,0	8039	2,1						
36,0 a 37,0	8040	1,9						
37,0 a 38,5	8041	1,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-106-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8140/75	1,1						
1,0 a 2,0	8141	0,5						
2,0 a 3,0	8142	<0,5						
3,0 a 4,0	8143	<0,5						
4,0 a 5,0	8144	<0,5						
5,0 a 6,0	8145	<0,5						
6,0 a 7,0	8146	<0,5						
7,0 a 8,0	8147	<0,5						
8,0 a 9,0	8148	<0,5						
9,0 a 10,0	8149	<0,5						
10,0 a 11,0	8150	<0,5						
11,0 a 12,0	8151	<0,5						
12,0 a 13,0	8152	<0,5						
13,0 a 14,0	8153	<0,5						
14,0 a 15,0	8154	<0,5						
15,0 a 16,0	8155	<0,5						
16,0 a 17,0	8156	<0,5						
17,0 a 18,0	8157	<1,5						

Cont. Furo: 2148-PM-106-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8158/75	<0,5						
19,0 a 20,0	8159	<0,5						
20,0 a 21,0	8160	<0,5						
21,0 a 22,0	8161	<0,5						
22,0 a 23,0	8162	<0,5						
23,0 a 24,0	8163	<0,5						
24,0 a 25,0	8164	<0,5						
25,0 a 26,0	8165	<0,5						
26,0 a 27,0	8166	<0,5						
27,0 a 28,0	8167	<0,5						
28,0 a 29,0	8168	<0,5						
29,0 a 30,0	8169	<0,5						
30,0 a 31,0	8170	<0,5						
31,0 a 32,0	8171	<0,5						
32,0 a 33,0	8172	<0,5						
33,0 a 34,0	8173	<0,5						
34,0 a 35,0	8174	<0,5						
35,0 a 36,0	8175	<0,5						
36,0 a 37,0	8176	<0,5						
37,0 a 38,0	8177	<0,5						
38,0 a 39,0	8178	<0,5						
39,0 a 40,0	8179	<0,5						
40,0 a 41,0	8180	<0,5						
41,0 a 42,0	8181	<0,5						
42,0 a 43,0	8182	<0,5						
43,0 a 44,0	8183	<0,5						
44,0 a 45,0	8184	<0,5						

Cont. Furo: 2148-PM-106-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	8185/75	<0,5						
46,0 a 47,0	8186	0,9						
47,0 a 48,0	8187	1,1						
48,0 a 49,0	8188	1,4						
49,0 a 50,0	8189	1,0						
50,0 a 51,0	8190	1,0						
51,0 a 52,0	8191	0,9						
52,0 a 53,0	8192	0,9						
53,0 a 54,0	8193	0,9						
54,0 a 55,0	8194	1,3						
55,0 a 56,0	8195	0,8						
56,0 a 57,0	8196	1,0						
57,0 a 58,0	8197	1,8						
58,0 a 59,50	8198	2,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-107-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8089/75	2,0						
1,0 a 2,0	8090	1,5						
2,0 a 3,0	8091	1,5						
3,0 a 4,0	8092	1,9						
4,0 a 5,0	8093	2,0						
5,0 a 6,0	8094	1,8						
6,0 a 7,0	8095	1,9						
7,0 a 8,0	8096	1,6						
8,0 a 9,0	8097	1,9						
9,0 a 10,0	8098	2,1						
10,0 a 11,0	8099	1,6						
11,0 a 12,0	8100	2,0						
12,0 a 13,0	8101	2,7						
13,0 a 14,0	8102	2,3						
14,0 a 15,0	8103	2,9						
15,0 a 16,0	8104	2,9						
16,0 a 17,0	8105	2,5						
17,0 a 18,0	8106	1,9						

Cont. Furo: 2148-PM-107-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8107/75	1,0						
19,0 a 20,0	8108	1,0						
20,0 a 21,0	8109	0,8						
21,0 a 22,0	8110	0,8						
22,0 a 23,0	8111	0,6						
23,0 a 24,0	8112	0,8						
24,0 a 25,0	8113	0,8						
25,0 a 26,0	8114	0,8						
26,0 a 27,0	8115	0,8						
27,0 a 28,0	8116	0,6						
28,0 a 29,10	8117	0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-108-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8204/75	9,8						14,5
1,0 a 2,0	8205	15,0						40,7
2,0 a 3,0	8206	11,3						43,5
3,0 a 4,0	8207	10,3						52,2
4,0 a 5,0	8208	10,0						61,4
5,0 a 6,0	8209	10,8						67,7
6,0 a 7,0	8210	10,1						66,1
7,0 a 8,0	8211	8,7						65,8
8,0 a 9,0	8212	13,6						63,4
9,0 a 10,0	8213	13,2						60,9
10,0 a 11,0	8214	12,2						67,4
11,0 a 12,0	8215	14,9						67,6
12,0 a 13,0	8216	13,8						67,0
13,0 a 14,0	8217	12,3						58,1
14,0 a 15,0	8218	15,5						69,3
15,0 a 16,0	8219	13,2						65,4
16,0 a 17,0	8220	11,4						57,5
17,0 a 18,0	8221	11,5						69,9

Cont. Furo: 2148-PM-108-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8222/75	10,0						53,4
19,0 a 20,0	8223	9,8						66,4
20,0 a 21,0	8224	11,2						
21,0 a 22,0	8225	13,2						
22,0 a 23,0	8226	10,4						
23,0 a 24,0	8227	11,4						
24,0 a 25,0	8228	9,2						
25,0 a 26,0	8229	9,3						
26,0 a 27,0	8230	9,6						
27,0 a 28,0	8231	8,8						
28,0 a 29,0	8232	7,8						
29,0 a 30,0	8233	7,0						
30,0 a 31,0	8234	9,0						
31,0 a 32,0	8235	7,7						
32,0 a 33,0	8236	8,3						
33,0 a 34,0	8237	6,9						
34,0 a 35,0	8238	5,8						
35,0 a 36,0	8239	6,1						
36,0 a 37,0	8240	6,1						
37,0 a 38,0	8241	6,2						
38,0 a 39,0	8242	5,9						
39,0 a 40,0	8243	5,8						
40,0 a 41,0	8244	5,5						
41,0 a 42,0	8245	3,3						
42,0 a 43,0	8246	1,9						
43,0 a 44,0	8247	2,3						
44,0 a 45,0	8248	1,2						
45,0 a 46,0	8249	1,0						

Cont. Furo: 2148-PM-108-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	8250/75	1,6						
47,0 a 48,0	8251	1,7						
48,0 a 49,0	8252	2,9						
49,0 a 50,0	8253	2,9						
50,0 a 51,0	8254	2,8						
51,0 a 52,0	8255	3,1						
52,0 a 53,0	8256	4,1						
53,0 a 54,0	8257	3,3						
54,0 a 55,0	8258	3,3						
55,0 a 56,0	8259	4,0						
56,0 a 57,0	8260	3,4						
57,0 a 58,0	8261	3,5						
58,0 a 59,0	8262	3,3						
59,0 a 60,0	8263	3,4						
60,0 a 61,0	8264	4,5						
61,0 a 62,0	8265	4,7						
62,0 a 63,0	8266	5,4						
63,0 a 64,0	8267	4,2						
64,0 a 65,0	8268	3,8						
65,0 a 66,0	8269	4,0						
66,0 a 67,0	8270	4,2						
67,0 a 68,0	8271	6,4						
68,0 a 69,0	8272	6,1						
69,0 a 70,0	8273	6,5						
70,0 a 71,0	8274	7,5						
71,0 a 72,0	8275	6,3						
72,0 a 73,0	8276	6,7						
73,0 a 74,0	8277	17,7						
74,0 a 75,0	8278	17,0						

Cont. Furo: 2148-PM-108-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
75,0 a 76,0	8279/75	13,7						
76,0 a 77,0	8280	18,0						
77,0 a 78,0	8281	16,2						
78,0 a 79,0	8282	15,9						
79,0 a 80,0	8283	14,0						
80,0 a 81,0	8284	13,3						
81,0 a 82,0	8285	17,8						
82,0 a 83,0	8286	16,5						
83,0 a 84,0	8287	12,0						
84,0 a 85,0	8288	14,0						
85,0 a 86,0	8289	9,9						
86,0 a 87,0	8290	7,7						
87,0 a 88,0	8291	12,9						
88,0 a 89,0	8292	12,7						
89,0 a 90,0	8293	16,3						
90,0 a 91,0	8294	17,4						
91,0 a 92,0	8295	20,3						
92,0 a 93,0	8296	19,4						
93,0 a 94,0	8297	17,0						
94,0 a 95,0	8298	17,7						
95,0 a 96,0	8299	15,8						
96,0 a 97,0	8300	13,6						
97,0 a 98,0	8301	12,2						
98,0 a 99,0	8302	15,5						
99,0 a 100,0	8303	9,6						
100,0 a 101,0	8304	9,0						
101,0 a 102,0	8305	9,9						
102,0 a 103,0	8306	12,4						

Cont. Furo: 2148-PM-108-MG

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COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPTEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-109-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9436/75	1,1						
1,0 a 2,0	9437	1,0						
2,0 a 3,0	9438	1,0						
3,0 a 4,0	9439	0,6						
4,0 a 5,0	9440	0,5						
5,0 a 6,0	9441	0,7						
6,0 a 7,0	9442	0,8						
7,0 a 8,0	9443	0,7						
8,0 a 9,0	9444	0,7						
9,0 a 10,0	9445	0,6						
10,0 a 11,0	9446	0,8						
11,0 a 12,0	9447	1,0						
12,0 a 13,0	9448	0,7						
13,0 a 14,0	9449	0,7						
14,0 a 15,0	9450	1,9						
15,0 a 16,0	9451	1,6						
16,0 a 17,0	9452	2,9						
17,0 a 18,0	9453	3,3						

Cont. Furo: 21.8-EM-109-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9454/75	4,3						
19,0 a 20,0	9455	9,1						
20,0 a 21,0	9456	7,8						
21,0 a 22,0	9457	8,2						
22,0 a 23,0	9458	12,3						
23,0 a 24,0	9459	12,7						
24,0 a 25,0	9460	9,4						
25,0 a 26,0	9461	7,6						
26,0 a 27,0	9462	9,3						
27,0 a 28,0	9463	12,6						
28,0 a 29,0	9464	11,3						
29,0 a 30,0	9465	16,7						
30,0 a 31,0	9466	18,2						
31,0 a 32,0	9467	15,4						
32,0 a 33,0	9468	9,5						
33,0 a 34,0	9469	13,0						
34,0 a 35,0	9470	14,6						
35,0 a 36,0	9471	14,4						
36,0 a 37,0	9472	14,9						
37,0 a 38,0	9473	20,2						
38,0 a 39,0	9424	73,5						
39,0 a 40,0	9475	22,2						
40,0 a 41,0	9476	20,7						
41,0 a 42,0	9477	20,1						
42,0 a 43,0	9478	17,6						
43,0 a 44,0	9479	15,9						
44,0 a 45,0	9480	18,1						

Cont. Furo: 2148-PM-109-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	9481/75	21,7						
46,0 a 47,0	9482	21,0						
47,0 a 48,0	9483	22,1						
48,0 a 49,0	9484	21,8						
49,0 a 50,0	9485	19,1						
50,0 a 51,0	9486	15,0						
51,0 a 52,0	9487	17,3						
52,0 a 53,0	9488	16,0						
53,0 a 54,0	9489	15,4						
54,0 a 55,0	9490	16,4						
55,0 a 56,0	9491	15,7						
56,0 a 57,0	9492	13,1						
57,0 a 58,0	9493	14,7						
58,0 a 59,0	9494	17,1						
59,0 a 60,0	9495	14,4						
60,0 a 61,0	9496	19,0						
61,0 a 62,0	9497	19,5						
62,0 a 63,0	9498	14,4						
63,0 a 64,0	9499	20,2						
64,0 a 65,0	9500	17,3						
65,0 a 66,0	9501	15,5						
66,0 a 67,0	9502	14,0						
67,0 a 68,0	9503	19,9						
68,0 a 69,0	9504	16,2						
69,0 a 70,0	9505	20,8						
70,0 a 71,0	9506	17,0						
71,0 a 72,0	9507	15,0						

Cont. Furo: 2148-MI-109-11G

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	9508/75	19,2						
73,0 a 74,0	9509	22,3						
74,0 a 75,0	9510	13,8						
75,0 a 76,0	9511	16,1						
76,0 a 77,0	9512	14,1						
77,0 a 78,0	9513	16,6						
78,0 a 79,0	9514	18,9						
79,0 a 80,0	9515	19,1						
80,0 a 81,0	9516	19,4						
81,0 a 82,0	9517	21,4						
82,0 a 83,0	9518	20,3						
83,0 a 84,0	9519	20,6						
84,0 a 85,0	9520	20,3						
85,0 a 86,0	9521	18,0						
86,0 a 87,0	9522	21,3						
87,0 a 88,0	9523	20,7						
88,0 a 89,0	9524	18,2						
89,0 a 90,0	9525	16,0						
90,0 a 91,0	9526	13,7						
91,0 a 92,0	9527	15,1						
92,0 a 93,0	9528	21,0						
93,0 a 94,0	9529	18,4						
94,0 a 95,0	9530	23,0						
95,0 a 96,0	9531	21,1						
96,0 a 97,0	9532	20,8						
97,0 a 98,0	9533	19,7						
98,0 a 99,0	9534	21,5						
99,0 a 100,0	9535	21,7						

Cont. Furo: 21-8-PI-109-UG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
100,0 a 101,0	9536/75	23,2						
101,0 a 102,0	9537	21,7						
102,0 a 103,0	9538	23,7						
103,0 a 104,0	9539	22,6						
104,0 a 105,0	9540	22,2						
105,0 a 106,0	9541	19,5						
106,0 a 107,20	9542	11,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-110-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9392/75	6,6						
1,0 a 2,0	9393	6,4						
2,0 a 3,0	9394	5,2						
3,0 a 4,0	9395	6,3						
4,0 a 5,0	9396	8,1						
5,0 a 6,0	9397	5,9						
6,0 a 7,0	9398	4,0						
7,0 a 8,0	9399	3,7						
8,0 a 9,0	9400	3,4						
9,0 a 10,0	9401	3,3						
10,0 a 11,0	9402	3,0						
11,0 a 12,0	9403	4,2						
12,0 a 13,0	9404	3,3						
13,0 a 14,0	9405	3,8						
14,0 a 15,0	9406	4,7						
15,0 a 16,0	9407	4,2						
16,0 a 17,0	9408	2,9						

Cont. Furo: 2148-PM-110-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	9409/75	5,1						
18,0 a 19,0	9410	4,6						
19,0 a 20,0	9411	4,7						
20,0 a 21,0	9412	3,2						
21,0 a 22,0	9413	4,3						
22,0 a 23,0	9414	6,9						
23,0 a 24,0	9415	6,3						
24,0 a 25,0	9416	6,3						
25,0 a 26,0	9417	5,2						
26,0 a 27,0	9418	3,5						
27,0 a 28,0	9419	5,9						
28,0 a 29,0	9420	7,4						
29,0 a 30,0	9421	7,4						
30,0 a 31,0	9422	4,7						
31,0 a 32,0	9423	3,4						
32,0 a 33,0	9424	4,3						
33,0 a 34,0	9425	4,3						
34,0 a 35,0	9426	6,0						
35,0 a 36,0	9427	11,8						
36,0 a 37,0	9428	11,0						
37,0 a 38,0	9429	2,9						
38,0 a 39,0	9430	3,2						
39,0 a 40,0	9431	3,5						
40,0 a 41,15	9432	2,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-111-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9174/75	11,6						5,2
1,0 a 2,0	9175	1,6						39,2
2,0 a 3,0	9176	<0,5						19,1
3,0 a 4,0	9177	<0,5						85,2
4,0 a 5,0	9178	<0,5						83,9
5,0 a 6,0	9179	<0,5						27,4
6,0 a 7,0	9180	<0,5						8,3
7,0 a 8,0	9181	<0,5						0,0
8,0 a 9,0	9182	<0,5						74,2
9,0 a 10,0	9183	<0,5						19,6
10,0 a 11,0	9184	<0,5						0,0
11,0 a 12,0	9185	<0,5						0,0
12,0 a 13,0	9186	<0,5						60,0
13,0 a 14,0	9187	<0,5						0,0
14,0 a 15,0	9188	<0,5						0,0
15,0 a 16,0	9189	<0,5						50,0
16,0 a 17,0	9190	0,5						0,0
17,0 a 18,0	9191	1,1						83,2

Cont. Furo: 2148-PM-111-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9192/75	3,5						74,3
19,0 a 20,0	9193	4,6						86,9
20,0 a 21,0	9194	3,2						
21,0 a 22,0	9195	4,0						
22,0 a 23,0	9196	7,5						
23,0 a 24,0	9197	12,6						
24,0 a 25,0	9198	10,6						
25,0 a 26,0	9199	11,0						
26,0 a 27,0	9200	9,7						
27,0 a 28,0	9201	13,6						
28,0 a 29,0	9202	13,9						
29,0 a 30,0	9203	11,7						
30,0 a 31,0	9204	11,3						
31,0 a 32,0	9205	11,4						
32,0 a 33,0	9206	8,5						
33,0 a 34,0	9207	10,3						
34,0 a 35,0	9208	10,1						
35,0 a 36,0	9209	8,3						
36,0 a 37,0	9210	11,0						
37,0 a 38,0	9211	10,3						
38,0 a 39,0	9212	9,0						
39,0 a 40,0	9213	8,6						
40,0 a 41,0	9214	9,8						
41,0 a 42,0	9215	15,3						
42,0 a 43,0	9216	14,3						
43,0 a 44,0	9217	14,0						
44,0 a 45,0	9218	7,0						
45,0 a 46,0	9219	10,3						

Cont. Furo: 2148-PM-111-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	9220/75	12,9						
47,0 a 48,0	9221	6,5						
48,0 a 49,0	9222	11,2						
49,0 a 50,0	9223	15,3						
50,0 a 51,0	9224	14,6						
51,0 a 52,0	9225	10,9						
52,0 a 53,0	9226	10,9						
53,0 a 54,0	9227	19,2						
54,0 a 55,0	9228	13,0						
55,0 a 56,0	9229	8,8						
56,0 a 57,0	9230	10,2						
57,0 a 58,0	9231	11,8						
58,0 a 59,0	9232	14,2						
59,0 a 60,0	9233	13,5						
60,0 a 61,0	9234	9,9						
61,0 a 62,0	9235	10,5						
62,0 a 63,0	9236	10,5						
63,0 a 64,0	9237	10,0						
64,0 a 65,0	9238	9,7						
65,0 a 66,0	9239	5,8						
66,0 a 66,90	9240	7,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-112-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9246/75	8,4						6,7
1,0 a 2,0	9247	2,3						3,7
2,0 a 3,0	9248	2,5						16,6
3,0 a 4,0	9249	2,2						2,4
4,0 a 5,0	9250	1,7						9,8
5,0 a 6,0	9251	2,2						23,3
6,0 a 7,0	9252	5,0						62,2
7,0 a 8,0	9253	12,5						72,2
8,0 a 9,0	9254	18,8						69,1
9,0 a 10,0	9255	15,4						70,0
10,0 a 11,0	9256	7,5						78,5
11,0 a 12,0	9257	7,0						73,0
12,0 a 13,0	9258	6,6						84,9
13,0 a 14,0	9259	7,7						82,2
14,0 a 15,0	9260	3,1						79,0
15,0 a 16,0	9261	3,8						77,1
16,0 a 17,0	9262	1,8						79,4
17,0 a 18,0	9263	<0,5						70,0

Cont. Furo: 2148-PM-112-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9264/75	<0,5						85,9
19,0 a 20,0	9265	<0,5						11,0
20,0 a 21,0	9266	<0,5						
21,0 a 22,0	9267	<0,5						
22,0 a 23,0	9268	1,5						
23,0 a 24,0	9269	1,2						
24,0 a 25,0	9270	1,3						
25,0 a 26,0	9271	1,6						
26,0 a 27,0	9272	3,5						
27,0 a 28,0	9273	4,0						
28,0 a 29,0	9274	6,8						
29,0 a 30,0	9275	4,5						
30,0 a 31,0	9276	5,2						
31,0 a 32,0	9277	5,0						
32,0 a 33,0	9278	6,1						
33,0 a 34,0	9279	15,4						
34,0 a 25,0	9280	18,1						
35,0 a 36,0	9281	15,0						
36,0 a 37,0	9282	10,6						
37,0 a 38,0	9283	11,0						
38,0 a 39,0	9284	9,8						
39,0 a 40,0	9285	9,2						
40,0 a 41,0	9286	6,7						
41,0 a 42,0	9287	9,8						
42,0 a 43,0	9288	6,7						
43,0 a 44,0	9289	13,5						
44,0 a 45,0	9290	15,2						
45,0 a 46,0	9291	15,9						
46,0 a 47,0	9292	13,5						

Cont. Furo: 2148-PM-112-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
47,0 a 48,0	9293/75	16,8						
48,0 a 49,0	9294	14,0						
49,0 a 50,0	9295	10,5						
50,0 a 51,0	9296	4,2						
51,0 a 52,0	9297	6,1						
52,0 a 53,0	9298	7,5						
53,0 a 54,0	9299	10,2						
54,0 a 55,0	9300	10,2						
55,0 a 56,0	9301	10,8						
56,0 a 57,0	9302	9,1						
57,0 a 58,0	9303	10,9						
58,0 a 59,0	9304	10,6						
59,0 a 60,0	9305	13,8						
60,0 a 61,0	9306	10,3						
61,0 a 62,0	9307	5,7						
62,0 a 63,0	9308	15,5						
63,0 a 64,0	9309	10,2						
64,0 a 65,0	9310	12,8						
65,0 a 66,0	9311	16,1						
66,0 a 67,0	9312	15,3						
67,0 a 68,0	9313	5,2						
68,0 a 69,0	9314	2,2						
69,0 a 70,0	9315	3,5						
70,0 a 71,0	9316	7,4						
71,0 a 71,85	9317	8,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: FAPTEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-113-NG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9324/75	19,2						
1,0 a 2,0	9325	19,2						
2,0 a 3,0	9326	19,5						
3,0 a 4,0	9327	20,1						
4,0 a 5,0	9328	20,8						
5,0 a 6,0	9329	18,1						
6,0 a 7,0	9330	19,9						
7,0 a 8,0	9331	17,5						
8,0 a 9,0	9332	16,3						
9,0 a 10,0	9333	17,3						
10,0 a 11,0	9334	19,9						
11,0 a 12,0	9335	20,8						
12,0 a 13,0	9336	18,5						
13,0 a 14,0	9337	23,0						
14,0 a 15,0	9338	20,3						
15,0 a 16,0	9339	20,0						
16,0 a 17,0	9340	18,3						
17,0 a 18,0	9341	18,2						

Cont. Furo: 2148-PI-113-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9342/75	17,9						
19,0 a 20,0	9343	17,7						
20,0 a 21,0	9344	16,5						
21,0 a 22,0	9345	18,3						
22,0 a 23,0	9346	14,3						
23,0 a 24,0	9347	16,4						
24,0 a 25,0	9348	15,5						
25,0 a 26,0	9349	19,0						
26,0 a 27,0	9350	20,1						
27,0 a 28,0	9351	19,2						
28,0 a 29,0	9352	19,6						
29,0 a 30,0	9353	19,3						
30,0 a 31,0	9354	18,0						
31,0 a 32,0	9355	23,2						
32,0 a 33,0	9356	16,6						
33,0 a 34,0	9357	12,5						
34,0 a 35,0	9358	19,2						
35,0 a 36,0	9359	17,8						
36,0 a 37,0	9360	21,3						
37,0 a 38,0	9361	18,4						
38,0 a 39,0	9362	19,0						
39,0 a 40,0	9363	19,2						
40,0 a 41,0	9364	20,5						
41,0 a 42,0	9365	19,5						
42,0 a 43,0	9366	21,2						
43,0 a 44,0	9367	25,7						
44,0 a 45,0	9368	23,7						

Cont. Furo: 2148-PM-113-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	9369/75	23,6						
46,0 a 47,0	9370	24,0						
47,0 a 48,0	9371	24,7						
48,0 a 49,0	9372	25,1						
49,0 a 50,0	9373	27,2						
50,0 a 51,0	9374	24,4						
51,0 a 52,0	9375	24,3						
52,0 a 53,0	9376	23,9						
53,0 a 54,0	9377	16,0						
54,0 a 55,0	9378	14,1						
55,0 a 56,0	9379	14,2						
56,0 a 57,0	9380	14,0						
57,0 a 58,0	9381	12,9						
58,0 a 59,0	9382	23,7						
59,0 a 60,0	9383	15,9						
60,0 a 61,0	9384	15,4						
61,0 a 61,80	9385	22,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-114-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8362/75	8,6						1,9
1,0 a 2,0	8363	15,8						1,7
2,0 a 3,0	8364	14,8						4,0
3,0 a 4,0	8365	8,3						12,4
4,0 a 5,0	8366	8,8						7,7
5,0 a 6,0	8367	5,8						3,2
6,0 a 7,0	8368	6,0						21,6
7,0 a 8,0	8369	13,2						52,0
8,0 a 9,0	8370	21,5						52,0
9,0 a 10,0	8371	20,7						51,1
10,0 a 11,0	8372	18,9						53,5
11,0 a 12,0	8373	17,7						54,0
12,0 a 13,0	8374	14,6						53,3
13,0 a 14,0	8375	15,2						58,2
14,0 a 15,0	8376	14,2						51,9
15,0 a 16,0	8377	10,7						49,0
16,0 a 17,0	8378	8,5						61,7

Cont. Furo: 2148-PM-114-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	8379/75	10,0						55,6
18,0 a 19,0	8380	17,0						57,8
19,0 a 20,0	8381	21,3						28,6
20,0 a 21,0	8382	20,3						
21,0 a 22,0	8383	18,8						
22,0 a 23,0	8384	18,3						
23,0 a 24,0	8385	10,3						
24,0 a 25,0	8386	14,3						
25,0 a 26,0	8387	10,7						
26,0 a 27,0	8388	12,7						
27,0 a 28,0	8389	11,3						
28,0 a 29,0	8390	12,9						
29,0 a 30,0	8391	16,8						
30,0 a 31,0	8392	16,7						
31,0 a 32,0	8393	17,2						
32,0 a 33,0	8394	16,0						
33,0 a 34,0	8395	18,0						
34,0 a 35,0	8396	16,5						
35,0 a 36,0	8697	17,1						
36,0 a 37,0	8398	12,6						
37,0 a 38,0	8399	16,6						
38,0 a 39,0	8400	17,7						
39,0 a 40,0	8401	13,2						
40,0 a 41,0	8402	16,4						
41,0 a 42,0	8403	17,8						
42,0 a 43,0	8404	20,4						
43,0 a 44,0	8405	17,6						
44,0 a 45,0	8406	18,0						

Cont. Furo: 2148-PM-114-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	8407/75	15,6						
46,0 a 47,0	8408	13,0						
47,0 a 48,0	8409	18,2						
48,0 a 49,0	8410	17,8						
49,0 a 50,0	8411	15,2						
50,0 a 51,0	8412	19,5						
51,0 a 52,0	8413	21,6						
52,0 a 53,0	8414	19,6						
53,0 a 54,0	8415	21,9						
54,0 a 55,0	8416	23,6						
55,0 a 56,0	8417	17,5						
56,0 a 57,0	8418	18,0						
57,0 a 58,0	8419	16,6						
58,0 a 59,0	8420	16,7						
59,0 a 60,0	8421	17,7						
60,0 a 61,0	8422	15,8						
61,0 a 62,0	8423	15,9						
62,0 a 63,0	8424	14,6						
63,0 a 64,0	8425	15,3						
64,0 a 65,0	8426	17,8						
65,0 a 66,0	8427	12,8						
66,0 a 67,0	8428	13,9						
67,0 a 68,0	8429	16,7						
68,0 a 69,4	8430	8,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-115-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8732/75	20,3						50,2
1,0 a 2,0	8733	20,6						56,7
2,0 a 3,0	8734	21,5						59,0
3,0 a 4,0	8735	17,5						59,0
4,0 a 5,0	8736	15,5						66,7
5,0 a 6,0	8737	16,4						63,4
6,0 a 7,0	8738	16,5						62,0
7,0 a 8,0	8739	14,5						74,9
8,0 a 9,0	8740	13,2						66,7
9,0 a 10,0	8741	14,9						66,4
10,0 a 11,0	8742	15,0						66,9
11,0 a 12,0	8743	13,4						65,1
12,0 a 13,0	8744	14,8						64,6
13,0 a 14,0	8745	16,4						56,8
14,0 a 15,0	8746	12,2						66,2
15,0 a 16,0	8747	11,4						68,3
16,0 a 17,0	8748	13,0						70,2
17,0 a 18,0	8749	12,6						69,0

Cont. Furo: 2148-PM-115-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8750/75	11,0						73,0
19,0 a 20,0	8751	11,0						75,8
20,0 a 21,0	8752	12,5						
21,0 a 22,0	8753	15,4						
22,0 a 23,0	8754	15,7						
23,0 a 24,0	8755	10,7						
24,0 a 25,0	8756	11,0						
25,0 a 26,0	8757	12,6						
26,0 a 27,0	8758	8,5						
27,0 a 28,0	8759	9,4						
28,0 a 29,0	8760	12,3						
29,0 a 30,0	8761	6,0						
31,0 a 31,0	8762	6,5						
31,0 a 32,0	8763	3,4						
32,0 a 33,0	8764	5,8						
33,0 a 34,0	8765	4,5						
34,0 a 35,0	8766	4,3						
35,0 a 36,0	8767	3,7						
36,0 a 37,0	8768	3,3						
37,0 a 38,0	8769	2,8						
38,0 a 39,0	8770	1,8						
39,0 a 40,0	8771	1,9						
40,0 a 41,20	8772	4,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-116-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8672/75	21,1						36,6
1,0 a 2,0	8673	23,4						56,1
2,0 a 3,0	8674	25,4						59,6
3,0 a 4,0	8675	24,6						60,5
4,0 a 5,0	8676	25,5						55,0
5,0 a 6,0	8677	25,4						55,9
6,0 a 7,0	8678	21,5						53,7
7,0 a 8,0	8679	22,0						58,3
8,0 a 9,0	8680	20,8						56,4
9,0 a 10,0	8681	18,7						66,6
10,0 a 11,0	8682	16,4						63,7
11,0 a 12,0	8683	18,5						58,1
12,0 a 13,0	8684	20,6						50,1
13,0 a 14,0	8685	20,8						49,3
14,0 a 15,0	8686	17,7						46,6
15,0 a 16,0	8687	15,3						58,3
16,0 a 17,0	8688	14,4						59,3
17,0 a 18,0	8689	15,7						57,9

Cont. Furo: 2148-PM-116-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8690/75	15,6						56,3
19,0 a 20,0	8691	15,6						58,5
21,0 a 21,0	8692	13,9						
21,0 a 22,0	8693	13,7						
22,0 a 23,0	8694	12,3						
23,0 a 24,0	8695	13,7						
24,0 a 25,0	8696	10,5						
25,0 a 26,0	8696-A	9,5						
26,0 a 27,0	8697	8,8						
27,0 a 28,0	8698	13,6						
28,0 a 29,0	8699	13,4						
29,0 a 30,0	8700	11,4						
30,0 a 31,0	8701	10,3						
31,0 a 32,0	8702	11,3						
32,0 a 33,0	8703	8,0						
33,0 a 34,0	8704	10,8						
34,0 a 35,0	8705	10,6						
35,0 a 36,0	8706	8,9						
36,0 a 37,0	8707	5,0						
37,0 a 38,0	8708	3,9						
38,0 a 39,0	8709	5,0						
39,0 a 40,0	8710	3,3						
40,0 a 41,0	8711	3,9						
41,0 a 42,0	8712	5,6						
42,0 a 43,0	8713	4,0						
43,0 a 44,0	8714	2,9						
44,0 a 45,0	8715	2,8						
45,0 a 46,0	8716	2,6						

Cont. Furo: 2148-PM-116-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	8717/75	3,1						
47,0 a 48,0	8718	5,0						
48,0 a 49,0	8719	3,0						
49,0 a 50,0	8720	4,3						
50,0 a 51,0	8721	4,0						
51,0 a 52,0	8722	6,1						
52,0 a 53,0	8723	1,8						
53,0 a 54,0	8724	2,1						
54,0 a 55,0	8725	40,5						
55,0 a 56,0	8726	1,8						
56,0 a 57,20	8727	0,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-117-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8633/75	1,9						
1,0 a 2,0	8634	2,3						
2,0 a 3,0	8635	1,2						
3,0 a 4,0	8636	1,6						
4,0 a 5,0	8637	0,8						
5,0 a 6,0	8638	0,6						
6,0 a 7,0	8639	0,6						
7,0 a 8,0	8640	0,8						
8,0 a 9,0	8641	0,8						
9,0 a 10,0	8642	1,0						
10,0 a 11,0	8643	1,0						
11,0 a 12,0	8644	0,8						
12,0 a 13,0	8645	0,9						
13,0 a 14,0	8646	1,3						
14,0 a 15,0	8647	1,0						
15,0 a 16,0	8648	0,9						
16,0 a 17,0	8649	0,9						
17,0 a 18,0	8650	0,6						

Cont. Furo: 2148-PM-117-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8651/75	1,0						
19,0 a 20,0	8652	1,0						
20,0 a 21,0	8653	1,8						
21,0 a 22,0	8654	2,5						
22,0 a 23,0	8645	2,5						
23,0 a 24,0	8656	2,0						
24,0 a 25,0	8657	2,1						
25,0 a 26,0	8658	3,9						
26,0 a 27,0	8659	3,4						
27,0 a 28,0	8660	4,0						
28,0 a 29,0	8661	5,9						
29,0 a 30,0	8662	5,2						
30,0 a 31,0	8663	4,0						
31,0 a 32,0	8664	4,7						
32,0 a 33,0	8665	5,0						
33,0 a 34,0	8666	2,4						
34,0 a 35,0	8667	1,3						
35,0 a 35,95	8668	1,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-118-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8567/75	17,4						35,1
1,0 a 2,0	8568	19,7						60,0
2,0 a 3,0	8569	15,2						67,3
3,0 a 4,0	8560	18,0						74,1
4,0 a 5,0	8571	20,6						60,2
5,0 a 6,0	8572	20,6						63,7
6,0 a 7,0	8573	17,8						69,5
7,0 a 8,0	8574	11,6						71,0
8,0 a 9,0	8575	18,2						60,9
9,0 a 10,0	8576	10,4						73,3
10,0 a 11,0	8577	10,8						61,8
11,0 a 12,0	8578	13,4						68,1
12,0 a 13,0	8579	16,6						62,7
13,0 a 14,0	8580	17,6						61,2
14,0 a 15,0	8581	14,6						47,2
15,0 a 16,0	8582	16,2						53,1
16,0 a 17,0	8583	17,4						49,9
17,0 a 18,0	8584	16,8						41,7

Cont. Furo: 2148-PM-118-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8585/75	17,0						48,0
19,0 a 20,0	8586	17,5						47,8
20,0 a 21,0	8587	14,1						
21,0 a 22,0	8588	16,7						
22,0 a 23,0	8589	18,3						
23,0 a 24,0	8590	16,8						
24,0 a 25,0	8591	19,5						
25,0 a 26,0	8592	14,5						
26,0 a 27,0	8593	18,6						
27,0 a 28,0	8594	18,5						
28,0 a 29,0	8595	16,4						
29,0 a 30,0	8596	12,7						
30,0 a 31,0	8597	16,6						
31,0 a 32,0	8598	17,6						
32,0 a 33,0	8599	19,8						
33,0 a 34,0	8600	17,9						
34,0 a 35,0	8601	17,5						
35,0 a 36,0	8602	16,2						
36,0 a 37,0	8603	17,2						
37,0 a 38,0	8604	17,5						
38,0 a 39,0	8605	18,6						
39,0 a 40,0	8606	18,6						
40,0 a 41,0	8607	14,9						
41,0 a 42,0	8608	16,5						
42,0 a 43,0	8609	17,1						
43,0 a 44,0	8610	16,3						
44,0 a 45,0	8611	16,7						
45,0 a 46,0	8612	17,5						

Cont. Furo: 2148-PM-118-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	8613/75	6,9						
47,0 a 48,0	8614	4,5						
48,0 a 49,0	8615	5,4						
49,0 a 50,0	8616	4,9						
50,0 a 51,0	8617	4,3						
51,0 a 52,0	8618	3,5						
52,0 a 53,0	8619	6,0						
53,0 a 54,0	8620	1,7						
54,0 a 55,0	8621	2,5						
55,0 a 56,0	8622	2,9						
56,0 a 57,0	8623	4,7						
57,0 a 58,0	8624	3,5						
58,0 a 59,0	8625	3,9						
59,0 a 60,0	8626	2,4						
60,0 a 61,0	8627	4,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-119-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8498/75	14,9						20,3
1,0 a 2,0	8499	18,8						67,1
2,0 a 3,0	8500	16,7						60,7
3,0 a 4,0	8501	11,8						67,3
4,0 a 5,0	8502	17,6						60,6
5,0 a 6,0	8503	19,0						56,3
6,0 a 7,0	8504	17,6						45,6
7,0 a 8,0	8505	15,5						56,0
8,0 a 9,0	8506	17,5						52,9
9,0 a 10,0	8507	18,4						58,9
10,0 a 11,0	8508	15,8						65,2
11,0 a 12,0	8509	12,4						73,0
12,0 a 13,0	8510	12,2						75,7
13,0 a 14,0	8511	15,8						60,2
14,0 a 15,0	8512	10,3						67,3
15,0 a 16,0	8513	12,6						60,2
16,0 a 17,0	8514	16,6						44,5
17,0 a 18,0	8515	16,5						44,0

Cont. Furo: 2148-PM-119-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8516/75	16,8						53,5
19,0 a 20,0	8517	18,1						50,1
20,0 a 21,0	8518	17,7						
21,0 a 22,0	8519	18,9						
22,0 a 23,0	8520	16,6						
23,0 a 24,0	8521	16,2						
24,0 a 25,0	8522	14,8						
25,0 a 26,0	8523	16,4						
26,0 a 27,0	8524	15,2						
27,0 a 28,0	8525	18,5						
28,0 a 29,0	8526	20,2						
29,0 a 30,0	8527	17,8						
30,0 a 31,0	8528	14,8						
31,0 a 32,0	8529	11,9						
32,0 a 33,0	8530	15,8						
33,0 a 34,0	8531	18,4						
34,0 a 35,0	8532	18,3						
35,0 a 36,0	8533	18,0						
36,0 a 37,0	8534	16,1						
37,0 a 38,0	8535	12,1						
38,0 a 39,0	8536	15,3						
39,0 a 40,0	8537	16,1						
40,0 a 41,0	8538	17,5						
41,0 a 42,0	8539	12,1						
42,0 a 43,0	8540	12,5						
43,0 a 44,0	8541	14,1						
44,0 a 45,0	8542	17,9						

Cont. Furo: 2148-PM-119-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	8543/75	15,0						
46,0 a 47,0	8544	15,4						
47,0 a 48,0	8545	15,7						
48,0 a 49,0	8546	15,2						
49,0 a 50,0	8547	12,3						
50,0 a 51,0	8548	12,0						
51,0 a 52,0	8549	15,8						
52,0 a 53,0	8550	11,6						
53,0 a 54,0	8551	14,3						
54,0 a 55,0	8552	6,0						
55,0 a 56,0	8553	9,0						
56,0 a 57,0	8554	9,7						
57,0 a 58,0	8555	12,5						
58,0 a 59,0	8556	11,2						
59,0 a 60,0	8557	9,9						
60,0 a 61,0	8558	13,4						
61,0 a 62,0	8559	14,3						
62,0 a 63,50	8560	9,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-120-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	5898/75	2,4						
1,0 a 2,0	9599	2,1						
2,0 a 3,0	9600	1,0						
3,0 a 4,0	9601	0,9						
4,0 a 5,0	9602	0,7						
5,0 a 6,0	9603	1,0						
6,0 a 7,0	9604	1,3						
7,0 a 8,0	9605	1,1						
8,0 a 9,0	9606	1,4						
9,0 a 10,0	9607	1,3						
10,0 a 11,0	9608	1,3						
11,0 a 12,0	9609	1,2						
12,0 a 13,0	9610	1,5						
13,0 a 14,0	9611	2,0						
14,0 a 15,0	9612	1,9						
15,0 a 16,0	9613	3,6						
16,0 a 17,0	9614	3,2						
17,0 a 18,0	9615	4,0						

Cont. Furo: 2148-III-120-NG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9616/75	3,8						
19,0 a 20,0	9617	6,1						
20,0 a 21,0	9618	9,1						
21,0 a 22,0	9619	11,4						
22,0 a 23,0	9620	12,3						
23,0 a 24,0	9621	17,4						
24,0 a 25,0	9622	13,4						
25,0 a 26,0	9623	11,9						
26,0 a 27,0	9624	14,0						
27,0 a 28,0	9625	17,1						
28,0 a 29,0	9626	17,2						
29,0 a 30,0	9627	13,2						
30,0 a 31,0	9628	9,3						
31,0 a 32,0	9629	7,8						
32,0 a 33,0	9630	5,8						
33,0 a 34,0	9631	14,9						
34,0 a 35,0	9632	8,8						
35,0 a 36,0	9633	7,0						
36,0 a 37,0	9634	11,0						
37,0 a 38,0	9635	13,9						
38,0 a 39,0	9636	16,8						
39,0 a 40,0	9637	5,2						
40,0 a 41,0	9638	18,6						
41,0 a 42,0	9639	18,1						
42,0 a 43,0	9640	19,2						
43,0 a 44,70	9641	9,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-FM-121-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	8437/75	16,4						6,5
1,0 a 2,0	8436	16,0						16,6
2,0 a 3,0	8439	20,7						43,2
3,0 a 4,0	8440	20,4						47,9
4,0 a 5,0	8441	22,7						59,0
5,0 a 6,0	8442	23,0						58,3
6,0 a 7,0	8443	22,2						60,8
7,0 a 8,0	8444	20,7						68,2
8,0 a 9,0	8445	19,3						69,2
9,0 a 10,0	8446	19,5						57,8
10,0 a 11,0	8447	23,0						64,6
11,0 a 12,0	8448	24,5						61,1
12,0 a 13,0	8449	20,8						64,9
13,0 a 14,0	8450	20,8						53,4
14,0 a 15,0	8451	19,8						53,0
15,0 a 16,0	8452	16,6						58,3
16,0 a 17,0	8453	16,2						76,4
17,0 a 18,0	8454	14,0						76,6

Cont. Furo: 2148-PM-121-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	8455/75	14,4						65,8
19,0 a 20,0	8456	10,8						58,0
20,0 a 21,0	8457	16,2						
21,0 a 22,0	8458	16,7						
22,0 a 23,0	8459	17,0						
23,0 a 24,0	8460	15,9						
24,0 a 25,0	8461	17,7						
25,0 a 26,0	8462	15,8						
26,0 a 27,0	8473	17,5						
27,0 a 28,0	8464	17,9						
28,0 a 29,0	8465	11,6						
29,0 a 30,0	8466	11,5						
30,0 a 31,0	8467	9,8						
31,0 a 32,0	8468	9,8						
32,0 a 33,0	8469	12,7						
33,0 a 34,0	8470	9,0						
34,0 a 35,0	8471	9,4						
35,0 a 36,0	8472	11,5						
36,0 a 37,0	8473	10,4						
37,0 a 38,0	8474	8,6						
38,0 a 39,0	8475	14,5						
39,0 a 40,0	8476	13,0						
40,0 a 41,0	8477	9,8						
41,0 a 42,0	8478	9,5						
42,0 a 43,0	8479	11,7						
43,0 a 44,0	8480	8,4						
44,0 a 45,0	8481	9,6						

Cont. Furo: 2148-PM-121-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	8482/75	12,0						
46,0 a 47,0	8483	17,7						
47,0 a 48,0	8484	16,6						
48,0 a 49,0	8485	9,8						
49,0 a 50,0	8486	9,5						
50,0 a 51,0	8487	8,6						
51,0 a 52,0	8488	13,8						
52,0 a 53,0	8489	11,9						
53,0 a 54,0	8490	7,6						
54,0 a 55,0	8491	9,7						
55,0 a 56,45	8492	4,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-122-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9646/75	8,9						0,7
1,0 a 2,0	9647	2,6						2,1
2,0 a 3,0	9648	<0,5						
3,0 a 4,0	9649	<0,5						
4,0 a 5,0	9650	<0,5						
5,0 a 6,0	9651	<0,5						
6,0 a 7,0	9652	<0,5						
7,0 a 8,0	9653	<0,5						
8,0 a 9,0	9654	0,5						
9,0 a 10,0	9655	<0,5						
10,0 a 11,0	9656	<0,5						
11,0 a 12,0	9657	<0,5						
12,0 a 13,0	9658	0,8						
13,0 a 14,0	9659	2,1						65,6
14,0 a 15,0	9660	1,2						53,0
15,0 a 16,0	9661	1,2						38,2
16,0 a 17,0	9662	1,5						37,1
17,0 a 18,0	9663	2,1						85,5

Cont. Furo: 2148-FM-122-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9664/75	1,8						74,9
19,0 a 20,0	9665	1,8						
20,0 a 21,0	9666	1,5						
21,0 a 22,0	9667	2,0						
22,0 a 23,0	9668	2,8						
23,0 a 24,0	9669	2,4						
24,0 a 25,0	9670	3,7						
25,0 a 26,0	9671	3,0						
26,0 a 27,0	9672	4,2						
27,0 a 28,0	9673	2,9						
28,0 a 29,0	9674	3,8						
29,0 a 30,0	9675	3,8						
30,0 a 31,0	9676	4,1						
31,0 a 32,0	9677	2,6						
32,0 a 33,65	9678	0,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 214C-FM-123-EG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9682/75	15,3						13,4
1,0 a 2,0	9683	12,8						43,9
2,0 a 3,0	9684	16,0						71,4
3,0 a 4,0	9685	15,4						71,9
4,0 a 5,0	9686	13,4						67,5
5,0 a 6,0	9687	12,4						82,6
6,0 a 7,0	9688	18,1						61,0
7,0 a 8,0	9689	16,7						62,9
8,0 a 9,0	9690	19,3						56,8
9,0 a 10,0	9691	16,8						57,7
10,0 a 11,0	9692	19,9						55,9
11,0 a 12,0	9693	13,9						60,9
12,0 a 13,0	9694	16,8						63,4
13,0 a 14,0	9695	11,3						70,3
14,0 a 15,0	9696	10,5						66,8
15,0 a 16,0	9697	15,5						61,0
16,0 a 17,0	9898	22,2						54,0
17,0 a 18,0	9699	20,6						53,1

Cont. Furo: 2148-123-123-123

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9700/75	19,1						57,4
19,0 a 20,0	9701	17,0						60,5
20,0 a 21,0	9702	18,4						
21,0 a 22,0	9703	17,1						
22,0 a 23,0	9704	13,9						
23,0 a 24,0	9705	16,9						
24,0 a 25,0	9706	14,0						
25,0 a 26,0	9707	15,0						
26,0 a 27,0	9708	18,7						
27,0 a 28,0	9709	16,5						
28,0 a 29,0	9710	16,7						
29,0 a 30,0	9711	16,0						
30,0 a 31,0	9712	20,2						
31,0 a 32,0	9713	18,9						
32,0 a 33,0	9714	19,8						
33,0 a 34,0	9715	17,5						
34,0 a 35,0	9716	20,7						
35,0 a 36,0	9717	20,3						
36,0 a 37,0	9718	16,3						
37,0 a 38,0	9719	17,9						
38,0 a 39,0	9720	14,4						
39,0 a 40,0	9721	10,5						
40,0 a 41,0	9722	13,9						
41,0 a 42,0	9723	20,3						
42,0 a 43,0	9724	16,6						
43,0 a 44,0	9725	15,3						
44,0 a 45,0	9726	13,4						

Cont. Furo: 21-8-FM-123-IG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	9727/75	15,0						
46,0 a 47,0	9728	19,0						
47,0 a 48,0	9729	20,6						
48,0 a 49,0	9730	17,3						
49,0 a 50,0	9731	14,6						
50,0 a 51,0	9732	11,7						
51,0 a 52,0	9733	14,9						
52,0 a 53,0	9734	14,0						
53,0 a 54,0	9735	14,7						
54,0 a 55,0	9736	14,6						
55,0 a 56,0	9737	13,0						
56,0 a 57,0	9738	12,9						
57,0 a 58,0	9739	9,3						
58,0 a 59,0	9740	16,1						
59,0 a 60,0	9741	15,2						
60,0 a 61,0	9742	5,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PR-124-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9749/75	4,9						16,4
1,0 a 2,0	9750	5,0						23,6
2,0 a 3,0	9751	2,8						21,2
3,0 a 4,0	9752	1,0						24,8
4,0 a 5,0	9753	1,2						30,6
5,0 a 6,0	9754	0,8						37,5
6,0 a 7,0	9755	0,8						40,0
7,0 a 8,0	9756	1,0						69,8
8,0 a 9,0	9757	0,5						30,1
9,0 a 10,0	9758	0,5						20,9
10,0 a 11,0	9759	0,5						79,2
11,0 a 12,0	9760	1,0						16,9
12,0 a 13,0	9761	0,8						55,9
13,0 a 14,0	9762	< 0,5						95,5
14,0 a 15,0	9763	< 0,5						0,0
15,0 a 16,0	9764	< 0,5						0,0
16,0 a 17,0	9765	< 0,5						71,7
17,0 a 18,0	9766	< 0,5						7,9

Cont. Turo: 2148-EM-124-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9767/75	40,5						79,2
19,0 a 20,0	9768	0,5						72,2
20,0 a 21,0	9769	1,0						
21,0 a 22,0	9770	1,0						
22,0 a 23,0	9771	1,3						
23,0 a 24,0	9772	1,3						
24,0 a 25,0	9773	1,5						
25,0 a 26,0	9774	1,6						
26,0 a 27,0	9775	1,7						
27,0 a 28,0	9776	2,0						
28,0 a 29,0	9777	6,5						
29,0 a 30,0	9778	8,5						
30,0 a 31,0	9779	4,0						
31,0 a 32,0	9780	1,0						
32,0 a 32,80	9781	1,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-125-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9785/75	1,4						
1,0 a 2,0	9786	1,2						
2,0 a 3,0	9787	1,2						
3,0 a 4,0	9788	2,0						
4,0 a 5,0	9789	1,0						
5,0 a 6,0	9790	1,3						
6,0 a 7,0	9791	1,6						
7,0 a 8,0	9792	2,0						
8,0 a 9,0	9793	2,6						
9,0 a 10,0	9794	2,7						
10,0 a 11,0	9795	1,6						
11,0 a 12,0	9796	0,9						
12,0 a 13,0	9797	0,7						
13,0 a 14,0	9798	1,1						
14,0 a 15,0	9799	1,4						
15,0 a 16,0	9800	2,1						
16,0 a 17,0	9801	3,9						
17,0 a 18,0	9802	2,9						

Cont. Furo: 2148-PM-125-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	9803/75	4,0						
19,0 a 20,0	9804	4,0						
20,0 a 21,0	9805	3,0						
21,0 a 22,0	9806	2,5						
22,0 a 23,0	9807	2,6						
23,0 a 24,0	9808	2,6						
24,0 a 25,0	9809	1,5						
25,0 a 26,0	9810	1,7						
26,0 a 27,0	9811	2,0						
27,0 a 28,0	9812	2,7						
28,0 a 29,0	9813	2,7						
29,0 a 30,0	9814	2,5						
30,0 a 31,0	9815	3,0						
31,0 a 32,0	9816	1,7						
32,0 a 33,0	9817	1,7						
33,0 a 34,0	9818	3,0						
34,0 a 35,0	9819	3,3						
35,0 a 36,0	9820	3,0						
36,0 a 37,0	9821	3,0						
37,0 a 38,0	9822	7,0						
38,0 a 39,0	9823	10,4						
39,0 a 40,0	9824	6,8						
40,0 a 41,0	9825	7,8						
41,0 a 42,0	9826	6,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-126-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9830/75	7,0						2,7
1,0 a 2,0	9831	5,5						6,2
2,0 a 3,0	9832	2,7						0,0
3,0 a 4,0	9833	2,9						5,4
4,0 a 5,0	9834	1,8						5,8
5,0 a 6,0	9835	1,0						45,8
6,0 a 7,0	9836	1,5						0,0
7,0 a 8,0	9837	1,7						5,1
8,0 a 9,0	9838	1,1						19,8
9,0 a 10,0	9839	1,1						0,0
10,0 a 11,0	9840	< 0,5						15,7
11,0 a 12,0	9841	1,1						21,3
12,0 a 13,0	9842	1,1						8,3
13,0 a 14,0	9843	1,2						0,0
14,0 a 15,0	9844	0,5						18,4
15,0 a 16,0	9845	< 0,5						0,0
16,0 a 17,0	9846	< 0,5						43,2
17,0 a 18,0	9847	< 0,5						0,0
18,0 a 19,0	9848	< 0,5						88,7

Cont. Furo: 2148-PM-126-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	9849/75	<0,5						0,0
20,0 a 21,0	9850	<0,5						
21,0 a 22,0	9851	<0,5						
22,0 a 23,0	9852	<0,5						
23,0 a 24,0	9853	1,2						
24,0 a 25,0	9854	0,8						
25,0 a 26,0	9855	<0,5						
26,0 a 27,0	9856	0,5						
27,0 a 28,0	9857	0,8						
28,0 a 29,0	9858	1,2						
29,0 a 30,0	9859	3,6						
30,0 a 31,0	9860	3,4						
31,0 a 32,0	9861	5,7						
32,0 a 33,0	9862	2,3						
33,0 a 34,0	9863	9,5						
34,0 a 35,0	9864	8,1						
35,0 a 36,0	9865	6,8						
36,0 a 37,0	9866	8,4						
37,0 a 38,0	9867	9,0						
38,0 a 39,0	9868	8,6						
39,0 a 40,0	9869	15,2						
40,0 a 41,0	9870	14,4						
41,0 a 42,0	9871	7,7						
42,0 a 43,0	9872	7,1						
43,0 a 44,0	9873	8,3						
44,0 a 45,0	9874	8,7						
45,0 a 46,0	9875	11,6						
46,0 a 47,0	9876	9,3						

Cont. Furo: 2148-PM-126-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
47,0 a 48,0	9877/75	8,6						
48,0 a 49,0	9878	9,7						
49,0 a 50,0	9879	14,8						
50,0 a 51,0	9880	14,6						
51,0 a 52,0	9881	16,0						
52,0 a 53,0	9882	14,5						
53,0 a 54,0	9883	11,8						
54,0 a 55,0	9884	14,0						
55,0 a 56,0	9885	10,5						
56,0 a 57,0	9886	9,7						
57,0 a 58,0	9887	10,4						
58,0 a 59,0	9888	10,9						
59,0 a 60,0	9889	10,6						
60,0 a 61,0	9890	11,9						
61,0 a 62,0	9891	11,0						
62,0 a 63,0	9892	10,9						
63,0 a 64,0	9893	10,6						
64,0 a 65,0	9894	9,9						
65,0 a 66,0	9895	8,2						
66,0 a 67,0	9896	9,3						
67,0 a 68,0	9897	18,0						
68,0 a 69,0	9898	11,9						
69,0 a 70,0	9899	13,6						
70,0 a 71,70	9900	9,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-127-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	9908/75	12,9						0,8
1,0 a 2,0	9909	16,7						36,3
2,0 a 3,0	9910	18,7						55,6
3,0 a 4,0	9911	20,8						61,2
4,0 a 5,0	9912	21,8						48,8
5,0 a 6,0	9913	19,5						56,7
6,0 a 7,0	9914	17,2						55,9
7,0 a 8,0	9915	18,7						50,5
8,0 a 9,0	9916	18,7						53,1
9,0 a 10,0	9917	19,6						57,0
10,0 a 11,0	9918	21,9						53,1
11,0 a 12,0	9919	22,2						49,8
12,0 a 13,0	9920	21,5						49,9
13,0 a 14,0	9921	20,9						50,0
14,0 a 15,0	9922	20,3						53,8
15,0 a 16,0	9923	19,8						54,6
16,0 a 17,0	9924	19,4						43,9
17,0 a 18,0	9925	19,5						60,8
18,0 a 19,0	9926	16,8						54,3

Cont. Furo: 2148-PM-127-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	9927/75	17,8						56,9
20,0 a 21,0	9928	19,8						
21,0 a 22,0	9929	18,9						
22,0 a 23,0	9930	18,0						
23,0 a 24,0	9931	19,1						
24,0 a 25,0	9932	20,0						
25,0 a 26,0	9933	19,1						
26,0 a 27,0	9934	18,5						
27,0 a 28,0	9935	18,6						
28,0 a 29,0	9936	18,8						
29,0 a 30,0	9937	18,5						
30,0 a 31,0	9938	18,4						
31,0 a 32,0	9939	18,2						
32,0 a 33,0	9940	17,7						
33,0 a 34,0	9941	16,3						
34,0 a 35,0	9942	17,3						
35,0 a 36,0	9943	19,6						
36,0 a 37,0	9944	20,0						
37,0 a 38,0	9945	19,0						
38,0 a 39,0	9946	18,2						
39,0 a 40,0	9947	15,8						
40,0 a 41,0	9948	14,7						
41,0 a 42,0	9949	18,2						
42,0 a 43,0	9950	13,9						
43,0 a 44,0	9951	14,0						
44,0 a 45,0	9952	15,0						
45,0 a 46,0	9953	15,4						
46,0 a 47,0	9954	14,6						

Cont. Furo: 2148-PM-127-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
47,0 a 48,0	9955/75	17,5						
48,0 a 49,0	9956	12,7						
49,0 a 50,0	9957	14,1						
50,0 a 51,0	9958	13,3						
51,0 a 52,0	9959	17,0						
52,0 a 53,0	9960	14,7						
53,0 a 54,0	9961	14,5						
54,0 a 55,0	9962	15,0						
55,0 a 56,0	9963	12,5						
56,0 a 57,0	9964	14,2						
57,0 a 58,0	9965	11,1						
58,0 a 59,0	9966	14,1						
59,0 a 60,0	9967	13,6						
60,0 a 61,0	9968	8,7						
61,0 a 62,0	9969	5,6						
62,0 a 63,0	9970	6,9						
63,0 a 64,0	9971	4,2						
64,0 a 65,60	9972	4,2						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS.
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-128-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F.	CO ₂	
0,0 a 1,0	10284/75	17,9						
1,0 a 2,0	10285	16,0						
2,0 a 3,0	10286	7,2						
3,0 a 4,0	10287	4,7						
4,0 a 5,0	10288	3,2						
5,0 a 6,0	10289	3,5						
6,0 a 7,0	10290	9,8						
7,0 a 8,0	10291	10,4						
8,0 a 9,0	10292	15,2						
9,0 a 10,0	10293	16,7						
10,0 a 11,0	10294	12,5						
11,0 a 12,0	10295	10,0						
12,0 a 13,0	10296	9,2						
13,0 a 14,0	10297	8,5						
14,0 a 15,0	10298	10,0						
15,0 a 16,0	10299	13,5						
16,0 a 17,0	10300	16,0						
17,0 a 18,0	10301	14,0						

Cont. Furo: 2148-PM-128-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10302/75	14,8						
19,0 a 20,0	10303	16,5						
20,0 a 21,0	10304	16,0						
21,0 a 22,0	10305	13,8						
22,0 a 23,0	10306	14,7						
23,0 a 24,0	10307	18,0						
24,0 a 25,0	10308	20,3						
25,0 a 26,0	10309	19,0						
26,0 a 27,0	10310	8,1						
27,0 a 28,0	10311	10,8						
28,0 a 29,0	10312	8,5						
29,0 a 30,0	10313	24,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-129-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10217/75	4,6						18,8
1,0 a 2,0	10218	4,2						12,8
2,0 a 3,0	10219	5,3						18,2
3,0 a 4,0	10220	10,2						3,9
4,0 a 5,0	10221	16,8						3,5
5,0 a 6,0	10222	15,1						1,9
6,0 a 7,0	10223	11,8						3,9
7,0 a 8,0	10224	10,5						2,4
8,0 a 9,0	10225	17,0						58,4
9,0 a 10,0	10226	17,6						63,5
10,0 a 11,0	10227	15,8						57,5
11,0 a 12,0	10228	14,6						60,6
12,0 a 13,0	10229	14,0						65,5
13,0 a 14,0	10230	10,2						74,9
14,0 a 15,0	10231	9,4						65,8
15,0 a 16,0	10232	8,3						50,2
16,0 a 17,0	10233	11,3						71,5
17,0 a 18,0	10234	11,4						65,6

Cont. Furo: 2148-PM-129-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10235/75	16,0						54,5
19,0 a 20,0	10236	14,3						57,7
20,0 a 21,0	10237	16,2						
21,0 a 22,0	10238	16,6						
22,0 a 23,0	10239	12,8						
23,0 a 24,0	10240	11,3						
24,0 a 25,0	10241	11,0						
25,0 a 26,0	10242	11,4						
26,0 a 27,0	10243	14,3						
27,0 a 28,0	10244	15,2						
28,0 a 29,0	10245	16,4						
29,0 a 30,0	10246	18,3						
30,0 a 31,0	10247	19,1						
31,0 a 32,0	10248	19,3						
32,0 a 33,0	10249	17,7						
33,0 a 34,0	10250	20,8						
34,0 a 35,0	10251	16,6						
35,0 a 36,0	10252	23,5						
36,0 a 37,0	10253	21,1						
37,0 a 38,0	10254	22,4						
38,0 a 39,0	10255	18,4						
39,0 a 40,0	10256	17,6						
40,0 a 41,0	10257	25,6						
41,0 a 42,0	10258	24,8						
42,0 a 43,0	10259	22,3						
43,0 a 44,0	10260	23,5						
44,0 a 45,0	10261	23,6						

Cont. Furo: 2148-PM-129-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	10262/75	18,9						
46,0 a 47,0	10263	19,7						
47,0 a 48,0	10264	17,5						
48,0 a 49,0	10265	22,6						
49,0 a 50,0	10266	22,7						
50,0 a 51,0	10267	24,4						
51,0 a 52,0	10268	30,5						
52,0 a 53,0	10269	29,6						
53,0 a 54,0	10270	20,7						
54,0 a 55,0	10271	25,6						
55,0 a 56,0	10272	24,1						
56,0 a 57,0	10273	19,6						
57,0 a 58,0	10274	21,4						
58,0 a 59,0	10275	18,4						
59,0 a 60,0	10276	26,8						
60,0 a 61,0	10277	27,4						
61,0 a 62,40	10278	10,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-130-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10183/75	5,5						21,6
1,0 a 2,0	10184	3,5						18,4
2,0 a 3,0	10185	1,3						47,8
3,0 a 4,0	10186	3,2						44,8
4,0 a 5,0	10187	0,5						47,8
5,0 a 6,0	10188	<0,5						57,8
6,0 a 7,0	10189	<0,5						65,7
7,0 a 8,0	10190	<0,5						44,7
8,0 a 9,0	10191	0,5						11,9
9,0 a 10,0	10192	1,2						75,7
10,0 a 11,0	10193	2,2						95,8
11,0 a 12,0	10194	0,5						91,5
12,0 a 13,0	10195	0,5						27,4
13,0 a 14,0	10196	0,6						24,2
14,0 a 15,0	10197	0,6						24,0
15,0 a 16,0	10198	<0,5						76,8
16,0 a 17,0	10199	<0,5						66,7
17,0 a 18,0	10200	<0,5						68,7

Cont. Furo: 2148-PM-130-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	1020175	< 0,5						5,7
19,0 a 20,0	10202	< 0,5						91,4
20,0 a 21,0	10203	1,5						
21,0 a 22,0	10204	1,3						
22,0 a 23,0	10205	1,0						
23,0 a 24,0	10206	1,3						
24,0 a 25,0	10207	1,6						
25,0 a 26,0	10208	1,6						
26,0 a 27,0	10209	1,6						
27,0 a 28,0	10210	1,8						
28,0 a 29,0	10211	1,7						
29,0 a 30,0	10212	5,4						
30,0 a 31,0	10213	4,3						
31,0 a 32,0	10214	3,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-131-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10404/75	1,0						
1,0 a 2,0	10405	0,9						
2,0 a 3,0	10406	0,9						
3,0 a 4,0	10407	0,9						
4,0 a 5,0	10408	0,7						
5,0 a 6,0	10409	0,7						
6,0 a 7,0	10410	0,9						
7,0 a 8,0	10411	0,9						
8,0 a 9,0	10412	0,9						
9,0 a 10,0	10413	1,0						
10,0 a 11,0	10414	1,0						
11,0 a 12,0	10415	1,1						
12,0 a 13,0	10416	1,3						
13,0 a 14,0	10417	1,6						
14,0 a 15,0	10418	1,4						
15,0 a 16,0	10419	1,1						
16,0 a 17,0	10420	1,6						
17,0 a 18,0	10421	1,6						

Cont. Furo: 2148-PM-131-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10422/75	2,3						
19,0 a 20,0	10423	1,6						
20,0 a 21,0	10424	1,5						
21,0 a 22,0	10425	0,9						
22,0 a 23,0	10426	1,0						
23,0 a 24,0	10427	1,4						
24,0 a 25,0	10428	2,5						
25,0 a 26,0	10429	2,5						
26,0 a 27,0	10430	1,5						
27,0 a 28,0	10431	2,8						
28,0 a 29,0	10432	1,1						
29,0 a 30,0	10433	3,3						
30,0 a 31,0	10434	6,5						
31,0 a 32,0	10435	7,8						
32,0 a 33,0	10436	5,7						
33,0 a 34,0	10437	9,4						
34,0 a 35,0	10438	7,2						
35,0 a 36,0	10439	9,0						
36,0 a 37,0	10440	8,9						
37,0 a 38,0	10441	8,1						
38,0 a 39,0	10442	10,0						
39,0 a 40,0	10443	9,8						
40,0 a 41,0	10444	10,5						
41,0 a 42,0	10445	6,6						
42,0 a 43,0	10446	3,5						
43,0 a 44,0	10447	5,1						
44,0 a 45,0	10448	4,8						

Cont. Furo: 2148-PM-131-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-132-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10454/75	8,0						28,4
1,0 a 2,0	10455	12,1						4,2
2,0 a 3,0	10456	15,8						4,1
3,0 a 4,0	10457	10,8						1,2
4,0 a 5,0	10458	7,0						2,4
5,0 a 6,0	10459	5,6						4,1
6,0 a 7,0	10460	7,5						8,2
7,0 a 8,0	10461	8,0						5,8
8,0 a 9,0	10462	7,6						27,6
9,0 a 10,0	10463	11,6						62,4
10,0 a 11,0	10464	14,2						63,2
11,0 a 12,0	10465	17,4						58,4
12,0 a 13,0	10466	18,8						66,8
13,0 a 14,0	10467	17,6						60,8
14,0 a 15,0	10468	18,4						57,8
15,0 a 16,0	10469	22,4						51,3
16,0 a 17,0	10470	22,0						61,8
17,0 a 18,0	10471	15,9						59,4

Cont. Furo: 2148-PM-132-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL, CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10472/75	19,3						61,7
19,0 a 20,0	10473	20,3						59,9
20,0 a 21,0	10474	19,0						
21,0 a 22,0	10475	18,3						
22,0 a 23,0	10476	20,7						
23,0 a 24,0	10477	12,4						
24,0 a 25,0	10478	9,4						
25,0 a 26,0	10479	12,4						
26,0 a 27,0	10480	13,5						
27,0 a 28,0	10481	16,8						
28,0 a 29,0	10482	17,3						
29,0 a 30,0	10483	17,9						
30,0 a 31,0	10484	16,0						
31,0 a 32,0	10485	16,0						
32,0 a 33,0	10486	14,0						
33,0 a 34,0	10487	13,7						
34,0 a 35,0	10488	16,7						
35,0 a 36,0	10489	21,9						
36,0 a 37,0	10490	18,3						
37,0 a 38,0	10491	18,0						
38,0 a 39,0	10492	14,8						
39,0 a 40,0	10493	17,5						
40,0 a 41,0	10494	21,1						
41,0 a 42,0	10495	17,8						
42,0 a 43,0	10496	12,5						
43,0 a 44,0	10497	16,7						
44,0 a 45,0	10498	21,0						

Cont. Furo: 2148-PM-132-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	10499/75	18,9						
46,0 a 47,0	10500	19,0						
47,0 a 48,0	10501	17,9						
48,0 a 49,0	10502	17,6						
49,0 a 50,0	10503	15,8						
50,0 a 51,0	10504	18,1						
51,0 a 52,0	10505	18,0						
52,0 a 53,0	10506	16,5						
53,0 a 54,0	10507	13,4						
54,0 a 55,0	10508	15,7						
55,0 a 57,0	10509	13,4						
56,0 a 57,0	10510	16,5						
57,0 a 58,0	10511	17,3						
58,0 a 59,0	10512	15,1						
59,0 a 60,0	10513	9,5						
60,0 a 61,0	10514	11,4						
61,0 a 62,0	10515	8,1						
62,0 a 63,30	10516	9,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-133-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10333/75	6,1						25,3
1,0 a 2,0	10334	7,6						15,8
2,0 a 3,0	10335	8,9						22,8
3,0 a 4,0	10336	11,6						6,1
4,0 a 5,0	10337	11,8						8,1
5,0 a 6,0	10338	12,0						4,9
6,0 a 7,0	10339	12,2						10,3
7,0 a 8,0	10340	11,8						11,8
8,0 a 9,0	10341	11,2						5,2
9,0 a 10,0	10342	8,9						41,1
10,0 a 11,0	10343	11,6						71,5
11,0 a 12,0	10344	10,0						93,0
12,0 a 13,0	10345	10,2						86,8
13,0 a 14,0	10346	10,9						83,6
14,0 a 15,0	10347	17,0						58,8
15,0 a 16,0	10348	19,3						54,8
16,0 a 17,0	10349	18,0						75,9
17,0 a 18,0	10350	16,7						66,9

Cont. Furo: 2148-PM-133-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10351/75	18,8						81,6
19,0 a 20,0	10352	10,1						77,6
20,0 a 21,0	10353	12,0						
21,0 a 22,0	10354	14,5						
22,0 a 23,0	10355	10,2						
23,0 a 24,0	10356	13,8						
24,0 a 25,0	10357	13,6						
25,0 a 26,0	10358	15,1						
26,0 a 27,0	10359	16,8						
27,0 a 28,0	10360	16,7						
28,0 a 29,0	10361	17,2						
29,0 a 30,0	10362	15,7						
30,0 a 31,0	10363	18,3						
31,0 a 32,0	10364	19,9						
32,0 a 33,0	10365	22,3						
33,0 a 34,0	10366	18,5						
34,0 a 35,0	10367	18,8						
35,0 a 36,0	10368	20,0						
36,0 a 37,0	10369	21,6						
37,0 a 38,0	10370	21,9						
38,0 a 39,0	10371	24,6						
39,0 a 40,0	10372	24,8						
40,0 a 41,0	10373	15,9						
41,0 a 42,0	10374	17,2						
42,0 a 43,0	10375	14,6						
43,0 a 44,0	10376	13,3						
44,0 a 45,0	10377	16,5						

Cont. Furo: 2148-PM-133-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	10378/75	16,4						
46,0 a 47,0	10379	18,0						
47,0 a 48,0	10380	17,5						
48,0 a 49,0	10381	23,3						
49,0 a 50,0	10382	16,9						
50,0 a 51,0	10383	15,1						
51,0 a 52,0	10384	18,4						
52,0 a 53,0	10385	17,8						
53,0 a 54,0	10386	20,0						
54,0 a 55,0	10387	21,4						
55,0 a 56,0	10388	20,3						
56,0 a 57,0	10389	13,0						
57,0 a 58,0	10390	16,6						
58,0 a 59,0	10391	16,4						
59,0 a 60,0	10392	19,3						
60,0 a 61,0	10393	14,6						
61,0 a 62,0	10394	12,1						
62,0 a 63,0	10395	11,7						
63,0 a 64,0	10396	11,3						
64,0 a 65,0	10397	8,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-134-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10664/75	2,5						
1,0 a 2,0	10665	2,0						
2,0 a 3,0	10666	2,6						
3,0 a 4,0	10667	2,5						
4,0 a 5,0	10668	2,1						
5,0 a 6,0	10669	2,5						
6,0 a 7,0	10670	2,3						
7,0 a 8,0	10671	2,8						
8,0 a 9,0	10672	3,3						
9,0 a 10,0	10673	2,7						
10,0 a 11,0	10674	2,1						
11,0 a 12,0	10675	2,0						
12,0 a 13,0	10676	3,6						
13,0 a 14,0	10677	3,5						
14,0 a 15,0	10678	4,8						
15,0 a 16,0	10679	4,0						
16,0 a 17,0	10680	4,0						
17,0 a 18,0	10681	3,0						

Cont. Furo: 2148-PM-134-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10682/75	3,0						
19,0 a 20,0	10683	3,1						
20,0 a 21,0	10684	3,3						
21,0 a 22,0	10685	3,3						
22,0 a 23,0	10686	3,2						
23,0 a 24,0	10687	2,8						
24,0 a 25,0	10688	2,2						
25,0 a 26,0	10689	2,9						
26,0 a 27,0	10690	3,0						
27,0 a 28,0	10691	3,4						
28,0 a 29,0	10692	3,5						
29,0 a 30,0	10693	2,9						
30,0 a 31,0	10694	4,5						
31,0 a 32,0	10695	3,3						
32,0 a 33,0	10696	4,1						
33,0 a 34,0	10697	5,2						
34,0 a 35,0	10698	2,1						
35,0 a 36,0	10699	4,0						
36,0 a 37,0	10700	5,2						
37,0 a 38,0	10701	6,0						
38,0 a 39,0	10702	6,3						
39,0 a 40,0	10703	1,5						
40,0 a 41,0	10704	1,9						
41,0 a 42,0	10705	2,3						
42,0 a 43,0	10706	3,0						
43,0 a 44,0	10707	5,8						
44,0 a 45,0	10708	6,5						

Cont. Furo: 2148-PM-134-MG

PROFUNDIDADE. (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	10709/75	5,5						
46,0 a 47,0	10710	3,8						
47,0 a 48,0	10711	8,3						
48,0 a 49,0	10712	2,5						
49,0 a 50,0	10713	6,2						
50,0 a 51,0	10714	8,5						
51,0 a 52,0	10715	10,0						
52,0 a 53,0	10716	14,5						
53,0 a 54,0	10717	8,3						
54,0 a 55,0	10718	3,3						
55,0 a 56,0	10719	9,4						
56,0 a 57,0	10720	9,1						
57,0 a 58,0	10721	6,2						
58,0 a 59,0	10722	6,2						
59,0 a 60,0	10723	9,8						
60,0 a 61,0	10724	1,7						
61,0 a 62,55	10725	4,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-135-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10141/75	0,8						
1,0 a 2,0	10142	1,1						
2,0 a 3,0	10143	1,1						
3,0 a 4,0	10144	1,5						
4,0 a 5,0	10145	1,2						
5,0 a 6,0	10146	0,9						10,9
6,0 a 7,0	10147	0,7						7,0
7,0 a 8,0	10148	0,9						9,8
8,0 a 9,0	10149	0,9						0,8
9,0 a 10,0	10150	0,6						36,0
10,0 a 11,0	10151	1,2						37,0
11,0 a 12,0	10152	1,1						17,3
12,0 a 13,0	10153	1,9						73,2
13,0 a 14,0	10154	1,4						45,5
14,0 a 15,0	10155	1,2						96,2
15,0 a 16,0	10156	0,4						
16,0 a 17,0	10157	1,8						83,6
17,0 a 18,0	10158	3,7						65,8

Cont. Furo: 2148-PM-135-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10159/75	2,6						65,3
19,0 a 20,0	10160	1,8						85,4
20,0 a 21,0	10161	2,5						
21,0 a 22,0	10162	2,6						
22,0 a 24,0	10163	7,3						
23,0 a 24,0	10164	2,9						
24,0 a 25,0	10165	3,9						
25,0 a 26,0	10166	2,1						
26,0 a 27,0	10167	1,6						
27,0 a 28,0	10168	2,2						
28,0 a 29,0	10169	2,3						
29,0 a 30,0	10170	4,9						
30,0 a 31,0	10171	1,5						
31,0 a 32,0	10172	2,6						
32,0 a 33,0	10173	1,2						
33,0 a 34,0	10174	1,0						
34,0 a 35,0	10175	2,2						
35,0 a 36,0	10185	4,6						
36,0 a 37,0	10177	3,2						
37,0 a 38,0	10178	2,4						
38,0 a 39,70	10179	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS.
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-136-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA 1A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10729/75	0,7						
1,0 a 2,0	10730	<0,5						
2,0 a 3,0	10731	0,7						
3,0 a 4,0	10732	0,7						
4,0 a 5,0	10733	1,0						
5,0 a 6,0	10734	0,8						
6,0 a 7,0	10735	0,8						
7,0 a 8,0	10736	0,9						
8,0 a 9,0	10737	0,9						
9,0 a 10,0	10738	0,7						
10,0 a 11,0	10739	0,5						
11,0 a 12,0	10740	<0,5						
12,0 a 13,0	10741	0,5						
13,0 a 14,0	10742	0,6						
14,0 a 15,0	10743	0,6						
15,0 a 16,0	10744	0,7						
16,0 a 17,0	10745	1,0						
17,0 a 18,0	10746	1,0						
18,0 a 19,0	10747	0,9						

Cont. Furo: 2148-PM-136-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	10748/75	0,7						
20,0 a 21,0	10749	0,7						
21,0 a 22,0	10750	0,7						
22,0 a 23,0	10751	0,8						
23,0 a 24,0	10752	0,8						
24,0 a 25,0	10753	0,8						
25,0 a 26,0	10754	1,0						
26,0 a 27,0	10755	1,0						
27,0 a 28,0	10756	1,3						
28,0 a 29,0	10757	1,0						
29,0 a 30,0	10758	5,3						
30,0 a 31,0	10759	6,4						
31,0 a 32,0	10760	2,1						
32,0 a 33,0	10761	1,1						
33,0 a 34,0	10762	0,9						
34,0 a 35,0	10763	0,9						
35,0 a 36,0	10764	0,8						
36,0 a 37,0	10765	1,1						
37,0 a 38,0	10766	1,3						
38,0 a 39,0	10767	2,3						
39,0 a 40,0	10768	3,0						
40,0 a 41,0	10769	3,3						
41,0 a 42,0	10770	3,0						
42,0 a 43,0	10771	4,5						
43,0 a 44,0	10772	3,4						
44,0 a 45,0	10773	4,0						
45,0 a 46,0	10774	4,6						
46,0 a 47,0	10775	3,5						
47,0 a 48,0	10776	2,9						
48,0 a 49,0	10777	1,3						
49,0 a 50,60	10778	1,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-137-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10783/75	13,3						8,3
1,0 a 2,0	10784	14,5						6,1
2,0 a 3,0	10785	20,0						41,2
3,0 a 4,0	10786	24,6						60,0
4,0 a 5,0	10787	24,6						62,6
5,0 a 6,0	10788	25,4						57,2
6,0 a 7,0	10789	28,4						58,7
7,0 a 8,0	10790	23,6						58,6
8,0 a 9,0	10791	28,8						55,3
9,0 a 10,0	10792	16,0						47,6
10,0 a 11,0	10793	23,0						61,0
11,0 a 12,0	10794	24,2						53,6
12,0 a 13,0	10795	20,6						55,4
13,0 a 14,0	10796	20,3						61,5
14,0 a 15,0	10797	22,7						68,0
15,0 a 16,0	10798	24,4						62,2
16,0 a 17,0	10799	22,5						60,2
17,0 a 18,0	10800	21,2						58,4

Cont. Furo: 2148-PM-137-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10801/75	16,2						57,0
19,0 a 20,0	10802	25,5						55,4
20,0 a 21,0	10803	20,7						
21,0 a 22,0	10804	14,9						
22,0 a 23,0	10805	15,7						
23,0 a 24,0	10806	19,9						
24,0 a 25,0	10807	18,5						
25,0 a 26,0	10808	17,5						
26,0 a 27,0	10809	13,5						
27,0 a 28,0	10810	11,2						
28,0 a 29,0	10811	17,3						
29,0 a 30,0	10812	23,1						
30,0 a 31,0	10813	22,4						
31,0 a 32,0	10814	17,4						
32,0 a 33,0	10815	16,2						
33,0 a 34,0	10816	18,7						
34,0 a 35,0	10817	18,1						
35,0 a 36,0	10818	14,8						
36,0 a 37,0	10819	15,1						
37,0 a 38,0	10820	20,0						
38,0 a 39,0	10821	22,3						
39,0 a 40,0	10822	14,9						
40,0 a 41,0	10823	15,0						
41,0 a 42,0	10824	14,3						
42,0 a 43,0	10825	14,3						
43,0 a 44,0	10826	11,0						
44,0 a 45,0	10827	15,5						
45,0 a 46,0	10828	16,0						

Cont. Furo: 2148-PM-137-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	10829/75	14,7						
47,0 a 48,0	10830	16,2						
48,0 a 49,0	10831	12,5						
49,0 a 50,0	10832	10,3						
50,0 a 51,0	10833	16,9						
51,0 a 52,0	10834	12,1						
52,0 a 53,60	10835	8,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS.

SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-138-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10841/75	0,7						
1,0 a 2,0	10842	0,7						
2,0 a 3,0	10843	0,7						
3,0 a 4,0	10844	0,9						
4,0 a 5,0	10845	0,7						
5,0 a 6,0	10846	0,8						
6,0 a 7,0	10847	1,1						
7,0 a 8,0	10848	1,0						
8,0 a 9,0	10849	3,3						
9,0 a 10,0	10850	4,4						
10,0 a 11,0	10851	2,4						
11,0 a 12,0	10852	2,9						
12,0 a 13,0	10853	5,5						
13,0 a 14,0	10854	3,3						
14,0 a 15,0	10855	4,2						
15,0 a 16,0	10856	4,5						
16,0 a 17,0	10857	2,1						
17,0 a 18,0	10858	0,9						
18,0 a 19,0	10859	3,6						

Cont. Furo: 2148-PM-138-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	10860/75	1,2						
20,0 a 21,0	10861	2,1						
21,0 a 22,0	10862	1,0						
22,0 a 23,0	10863	0,9						
23,0 a 24,0	10864	1,1						
24,0 a 25,0	10865	3,1						
25,0 a 26,0	10866	3,8						
26,0 a 27,0	10867	2,8						
27,0 a 28,0	10868	3,2						
28,0 a 29,0	10869	2,5						
29,0 a 30,0	10870	2,0						
30,0 a 31,0	10871	1,8						
31,0 a 32,0	10872	1,9						
32,0 a 32,50	10873	2,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-139-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	P	CO ₂	
0,0 a 1,0	10877/75	2,6						
1,0 a 2,0	10878	2,6						3,2
2,0 a 3,0	10879	2,2						1,9
3,0 a 4,0	10880	1,1						
4,0 a 5,0	10881	0,8						34,7
5,0 a 6,0	10882	1,3						51,0
6,0 a 7,0	10883	1,0						28,3
7,0 a 8,0	10884	0,5						
8,0 a 9,0	10885	0,5						
9,0 a 10,0	10886	0,5						
10,0 a 11,0	10887	1,0						
11,0 a 12,0	10888	0,7						
12,0 a 13,0	10889	1,0						
13,0 a 14,0	10890	1,1						
14,0 a 15,0	10891	0,5						
15,0 a 16,0	10892	0,5						
16,0 a 17,0	10893	0,5						
17,0 a 18,0	10894	1,0						
18,0 a 19,0	10895	0,7						

Cont. Furo: 2148-PM-139-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
19,0 a 20,0	10896/75	0,8						69,9
20,0 a 21,0	10897	1,2						
21,0 a 22,0	10898	1,5						
22,0 a 23,0	10899	1,8						
23,0 a 24,0	10900	2,0						
24,0 a 25,0	10901	4,8						
25,0 a 26,0	10902	4,0						
26,0 a 27,0	10903	2,2						
27,0 a 28,0	10904	1,8						
28,0 a 29,0	10905	2,5						
29,0 a 30,0	10906	1,7						
30,0 a 31,0	10907	1,6						
31,0 a 32,0	10908	1,3						
32,0 a 33,25	10909	0,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-140-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						*SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10913/75	10,7						5,0
1,0 a 2,0	10914	12,2						3,2
2,0 a 3,0	10915	14,1						3,9
3,0 a 4,0	10916	14,9						2,0
4,0 a 5,0	10917	15,7						2,9
5,0 a 6,0	10918	14,7						0,6
6,0 a 7,0	10919	12,0						2,1
7,0 a 8,0	10920	10,7						4,8
8,0 a 9,0	10921	11,1						3,7
9,0 a 10,0	10922	10,2						6,4
10,0 a 11,0	10923	8,0						2,3
11,0 a 12,0	10924	7,9						3,0
12,0 a 13,0	10925	6,3						6,3
13,0 a 14,0	10926	6,4						7,1
14,0 a 15,0	10927	9,5						56,3
15,0 a 16,0	10928	14,3						72,8
16,0 a 17,0	10929	14,5						76,0
17,0 a 18,0	10930	15,5						50,1

Cont. Furo: 2148-PM-140-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	10931/75	14,8						45,2
19,0 a 20,0	10932	15,3						46,2
20,0 a 21,0	10933	16,4						
21,0 a 22,0	10934	18,5						
22,0 a 23,0	10935	17,4						
23,0 a 24,0	10936	20,6						
24,0 a 25,0	10937	22,0						
25,0 a 26,0	10938	21,1						
26,0 a 27,0	10939	22,4						
27,0 a 28,0	10940	21,1						
28,0 a 29,0	10941	18,1						
29,0 a 30,0	10942	15,7						
30,0 a 31,0	10943	18,6						
31,0 a 32,0	10944	17,7						
32,0 a 33,0	10945	17,7						
33,0 a 34,0	10946	17,3						
34,0 a 35,0	10947	17,1						
35,0 a 36,0	10948	14,9						
36,0 a 37,0	10949	18,8						
37,0 a 38,0	10950	19,7						
38,0 a 39,0	10951	20,2						
39,0 a 40,0	10952	22,9						
40,0 a 41,0	10953	20,3						
41,0 a 42,0	10954	15,5						
42,0 a 43,0	10955	14,1						
43,0 a 44,0	10956	17,4						
44,0 a 45,0	10957	20,5						
45,0 a 46,0	10958	22,9						

Cont. Furo: 2148-PM-140-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	10959/75	20,6						
47,0 a 48,0	10960	20,6						
48,0 a 49,0	10961	18,2						
49,0 a 50,0	10962	18,1						
50,0 a 51,0	10963	18,1						
51,0 a 52,0	10966	19,5						
52,0 a 53,0	10965	18,2						
53,0 a 54,0	10966	14,8						
54,0 a 55,0	10967	21,3						
55,0 a 56,0	10968	9,6						
56,0 a 57,0	10969	14,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-141-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	10975/75	1,0						3,6
1,0 a 2,0	10976	0,7						9,8
2,0 a 3,0	10977	2,0						5,2
3,0 a 4,0	10978	1,5						
4,0 a 5,0	10979	1,7						
5,0 a 6,0	10980	1,5						31,8
6,0 a 7,0	10981	1,4						
7,0 a 8,0	10982	1,4						9,0
8,0 a 9,0	10983	1,5						49,5
9,0 a 10,0	10984	1,0						
10,0 a 11,0	10985	1,0						
11,0 a 12,0	10986	0,6						16,4
12,0 a 13,0	10987	<0,5						
13,0 a 14,0	10988	<0,5						14,3
14,0 a 15,0	10989	<0,5						11,1
15,0 a 16,0	10990	<0,5						50,0
16,0 a 17,0	10991	<0,5						77,8
17,0 a 18,0	10992	0,5						
18,0 a 19,0	10993	0,6						8,2
19,0 a 20,0	10994	<0,5						50,0

Cont. Furo: 2148-PM-141-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
20,0 a 21,0	10995/75	0,5						
21,0 a 22,0	10996	0,9						
22,0 a 23,0	10997	0,8						
23,0 a 24,0	10998	1,0						
24,0 a 25,0	10999	2,1						
25,0 a 26,0	11000	1,1						
26,0 a 27,0	11001	0,8						
27,0 a 28,0	11002	0,9						
28,0 a 29,0	11003	0,8						
29,0 a 30,0	11004	1,1						
30,0 a 31,0	11005	3,1						
31,0 a 32,0	11006	2,2						
32,0 a 33,0	11007	1,8						
33,0 a 34,0	11008	2,8						
34,0 a 35,0	11009	2,1						
35,0 a 36,0	11010	2,6						
36,0 a 37,0	11011	2,6						
37,0 a 38,0	11012	1,5						
38,0 a 39,0	11013	1,0						
39,0 a 40,0	11014	1,2						
40,0 a 41,0	11015	1,6						
41,0 a 42,0	11016	1,4						
42,0 a 43,50	11017	1,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-142-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11022/75	3,3						15,1
1,0 a 2,0	11023	1,0						22,6
2,0 a 3,0	11024	0,7						91,3
3,0 a 4,0	11025	0,6						21,4
4,0 a 5,0	11026	1,5						24,8
5,0 a 6,0	11027	1,0						27,8
6,0 a 7,0	11028	0,6						9,7
7,0 a 8,0	11029	1,1						9,9
8,0 a 9,0	11030	0,9						29,6
9,0 a 10,0	11031	0,6						64,5
10,0 a 11,0	11032	0,7						24,5
11,0 a 12,0	11033	0,5						35,0
12,0 a 13,0	11034	0,8						77,4
13,0 a 14,0	11035	0,9						32,3
14,0 a 15,0	11036	0,6						61,3
15,0 a 16,0	11037	1,0						56,5
16,0 a 17,0	11038	2,0						81,1
17,0 a 18,0	11039	3,4						89,6

Cont. Furo: 2148-PM-142-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11040/75	2,9						75,4
19,0 a 20,0	11041	1,5						90,7
20,0 a 21,0	11042	2,1						
21,0 a 22,0	11043	2,1						
22,0 a 23,0	11044	2,5						
23,0 a 24,0	11045	3,0						
24,0 a 25,0	11046	1,0						
25,0 a 26,0	11047	1,4						
26,0 a 27,0	11048	1,5						
27,0 a 28,0	11049	1,3						
28,0 a 29,0	11050	1,1						
29,0 a 30,0	11051	1,3						
30,0 a 31,0	11052	0,8						
31,0 a 32,0	11053	0,7						
32,0 a 33,0	11054	1,0						
33,0 a 34,0	11055	1,4						
34,0 a 35,0	11056	0,8						
35,0 a 35,85	11057	0,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-143-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11059/75	12,2						4,7
1,0 a 2,0	11060	9,9						2,3
2,0 a 3,0	11061	9,2						2,4
3,0 a 4,0	11062	9,4						3,1
4,0 a 5,0	11063	8,4						3,6
5,0 a 6,0	11064	8,0						0,6
6,0 a 7,0	11065	6,7						
7,0 a 8,0	11066	7,2						2,6
8,0 a 9,0	11067	5,8						
9,0 a 10,0	11068	7,7						7,4
10,0 a 11,0	11069	8,4						3,8
11,0 a 12,0	11070	8,7						72,4
12,0 a 13,0	11071	7,0						13,8
13,0 a 14,0	11072	11,4						53,4
14,0 a 15,0	11073	14,1						54,1
15,0 a 16,0	11074	16,2						66,8
16,0 a 17,0	11075	16,3						61,0
17,0 a 18,0	11076	15,2						60,9

Cont. Furo:

2148-PM-143-MG

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COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-144-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11823/75	22,3						
1,0 a 2,0	11824	23,0						
2,0 a 3,0	11825	20,3						
3,0 a 4,0	11826	17,6						
4,0 a 5,0	11827	14,1						
5,0 a 6,0	11828	16,8						
6,0 a 7,0	11829	17,0						
7,0 a 8,0	11830	14,7						
8,0 a 9,0	11831	15,5						
9,0 a 10,0	11832	18,3						
10,0 a 11,0	11833	19,3						
11,0 a 12,0	11834	17,9						
12,0 a 13,0	11835	21,5						
13,0 a 14,0	11836	19,9						
14,0 a 15,0	11837	20,2						
15,0 a 16,0	11838	19,3						
16,0 a 17,0	11839	23,6						
17,0 a 18,0	11840	21,0						

Cont. Furo: 2148-PM-144-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11841/75	19,7						
19,0 a 20,0	11842	18,8						
20,0 a 21,0	11843	16,3						
21,0 a 22,0	11844	12,9						
22,0 a 23,0	11845	11,0						
23,0 a 24,0	11846	12,2						
24,0 a 25,0	11847	11,7						
25,0 a 26,0	11848	17,0						
26,0 a 27,0	11849	17,5						
27,0 a 28,0	11850	20,6						
28,0 a 29,0	11851	18,5						
29,0 a 30,0	11852	21,1						
30,0 a 31,0	11853	23,7						
31,0 a 32,0	11854	22,4						
32,0 a 33,0	11855	21,2						
33,0 a 34,0	11856	18,0						
34,0 a 35,0	11857	17,7						
35,0 a 36,0	11858	20,3						
36,0 a 37,0	11859	16,7						
37,0 a 38,0	11860	18,7						
38,0 a 39,0	11861	15,7						
39,0 a 40,0	11862	14,8						
40,0 a 41,0	11863	18,9						
41,0 a 42,0	11864	20,0						
42,0 a 43,0	11865	16,0						
43,0 a 44,0	11866	16,2						
44,0 a 45,0	11867	18,1						
45,0 a 46,0	11868	17,6						

Cont. Furo: 2148-PM-144-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	11869/75	14,0						
47,0 a 48,0	11870	15,0						
48,0 a 49,0	11871	13,5						
49,0 a 50,0	11872	15,4						
50,0 a 51,0	11873	10,6						
51,0 a 52,0	11874	13,1						
52,0 a 53,0	11875	13,1						
53,0 a 54,0	11876	14,5						
54,0 a 55,0	11877	15,0						
55,0 a 56,0	11878	18,6						
56,0 a 57,0	11879	18,1						
57,0 a 58,0	11880	19,2						
58,0 a 59,0	11881	12,5						
59,0 a 60,0	11882	10,7						
60,0 a 61,0	11883	15,5						
61,0 a 62,0	11884	13,3						
62,0 a 63,0	11885	15,5						
63,0 a 64,0	11886	15,8						
64,0 a 65,0	11887	15,9						
65,0 a 66,0	11888	20,5						
66,0 a 67,0	11889	17,8						
67,0 a 68,0	11890	12,4						
68,0 a 69,0	11891	7,9						
69,0 a 70,0	11892	6,0						
70,0 a 71,0	11893	12,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-145-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11127/75	5,4						14,0
1,0 a 2,0	11128	6,3						8,2
2,0 a 3,0	11129	10,1						6,4
3,0 a 4,0	11130	12,7						3,3
4,0 a 5,0	11131	12,0						5,0
5,0 a 6,0	11132	11,9						10,0
6,0 a 7,0	11133	11,3						4,8
7,0 a 8,0	11134	13,4						1,0
8,0 a 9,0	11135	11,3						0,4
9,0 a 10,0	11136	6,6						5,1
10,0 a 11,0	11137	9,4						4,5
11,0 a 12,0	11138	8,2						30,1
12,0 a 13,0	11139	9,8						43,4
13,0 a 14,0	11140	9,0						26,0
14,0 a 15,0	11141	9,3						66,2
15,0 a 16,0	11142	10,2						64,3
16,0 a 17,0	11143	10,7						69,5
17,0 a 18,0	11144	13,5						67,3

Cont. Furo: 2148-PM-145-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11145/75	15,4						67,2
19,0 a 20,0	11146	14,4						34,3
20,0 a 21,0	11147	16,5						
21,0 a 22,0	11148	23,5						
22,0 a 23,0	11149	20,8						
23,0 a 24,0	11150	22,5						
24,0 a 25,0	11151	19,0						
25,0 a 26,0	11152	25,1						
26,0 a 27,0	11153	26,7						
27,0 a 28,0	11154	21,9						
28,0 a 29,0	11155	23,0						
29,0 a 30,0	11156	22,6						
30,0 a 31,0	11157	24,3						
31,0 a 32,0	11158	20,0						
32,0 a 33,0	11159	26,3						
33,0 a 34,0	11160	25,1						
34,0 a 35,0	11161	21,4						
35,0 a 36,0	11162	17,1						
36,0 a 37,0	11163	16,9						
37,0 a 38,0	11164	19,0						
38,0 a 39,0	11165	21,7						
39,0 a 40,0	11166	15,7						
40,0 a 41,0	11167	17,5						
41,0 a 42,0	11168	13,5						
42,0 a 43,0	11169	13,2						
43,0 a 44,0	11170	15,0						
44,0 a 45,0	11171	14,6						

Cont. Furo: 2148-PM-145-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	11172/75	15,7						
46,0 a 47,0	11173	17,1						
47,0 a 48,0	11174	15,1						
48,0 a 49,0	11175	17,0						
49,0 a 50,0	11176	15,4						
50,0 a 51,0	11177	15,1						
51,0 a 52,0	11178	14,9						
52,0 a 53,0	11179	13,5						
53,0 a 54,0	11180	13,0						
54,0 a 55,0	11181	16,0						
55,0 a 56,0	11182	16,1						
56,0 a 57,0	11183	14,5						
57,0 a 58,0	11184	12,0						
58,0 a 59,0	11185	11,7						
59,0 a 60,0	11186	11,6						
60,0 a 61,0	11187	9,7						
61,0 a 62,60	11188	8,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-146-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11754/75	1,4						
1,0 a 2,0	11755	1,0						
2,0 a 3,0	11756	1,0						
3,0 a 4,0	11757	1,1						
4,0 a 5,0	11758	0,9						
5,0 a 6,0	11759	1,0						
6,0 a 7,0	11760	0,7						
7,0 a 8,0	11761	0,7						
8,0 a 9,0	11762	0,5						
9,0 a 10,0	11763	0,5						
10,0 a 11,0	11764	0,5						
11,0 a 12,0	11765	0,5						
12,0 a 13,0	11766	0,5						
13,0 a 14,0	11767	0,5						
14,0 a 15,0	11768	0,6						
15,0 a 16,0	11769	0,5						
16,0 a 17,0	11770	0,5						
17,0 a 18,0	11771	0,6						

Cont. Furo: 2148-PM-146-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11772/75	0,6						
19,0 a 20,0	11773	<0,5						
20,0 a 21,0	11774	0,5						
21,0 a 22,0	11775	1,0						
22,0 a 23,0	11776	1,8						
23,0 a 24,0	11777	3,0						
24,0 a 25,0	11778	3,6						
25,0 a 26,0	11779	2,6						
26,0 a 27,0	11780	2,5						
27,0 a 28,0	11781	2,8						
28,0 a 29,0	11782	3,0						
29,0 a 30,0	11783	2,8						
30,0 a 31,0	11784	3,0						
31,0 a 32,0	11785	2,8						
32,0 a 33,0	11786	2,5						
33,0 a 34,0	11787	5,0						
34,0 a 35,0	11788	4,8						
35,0 a 36,0	11789	2,5						
36,0 a 37,0	11790	3,0						
37,0 a 38,0	11791	2,4						
38,0 a 39,0	11792	3,0						
39,0 a 40,0	11793	2,9						
40,0 a 41,0	11794	2,8						
41,0 a 42,0	11795	2,0						
42,0 a 43,0	11796	2,3						
43,0 a 44,0	11797	2,3						
44,0 a 45,0	11798	2,2						

Cont. Furo: 2148-PM-146-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	11799/75	2,5						
46,0 a 47,0	11800	1,4						
47,0 a 48,0	11801	0,9						
48,0 a 49,0	11802	0,7						
49,0 a 50,0	11803	0,9						
50,0 a 51,0	11804	1,4						
51,0 a 52,0	11805	1,1						
52,0 a 53,0	11806	1,0						
53,0 a 54,0	11807	1,8						
54,0 a 55,0	11808	1,7						
55,0 a 56,0	11809	2,1						
56,0 a 57,0	11810	3,0						
57,0 a 58,0	11811	3,3						
58,0 a 59,0	11812	3,0						
59,0 a 60,0	11813	3,6						
60,0 a 61,0	11814	3,8						
61,0 a 62,0	11815	2,8						
62,0 a 63,0	11816	3,5						
63,0 a 64,50	11817	3,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-147-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11194/75	2,4						7,3
1,0 a 2,0	11195	11,7						3,0
2,0 a 3,0	11196	11,1						4,7
3,0 a 4,0	11197	9,8						1,0
4,0 a 5,0	11198	11,0						2,0
5,0 a 6,0	11199	7,7						5,9
6,0 a 7,0	11200	7,3						9,7
7,0 a 8,0	11201	11,3						51,0
8,0 a 9,0	11202	20,5						74,5
9,0 a 10,0	11203	24,8						72,4
10,0 a 11,0	11204	21,8						65,3
11,0 a 12,0	11205	20,0						67,9
12,0 a 13,0	11206	18,4						68,5
13,0 a 14,0	11207	21,2						68,6
14,0 a 15,0	11208	21,8						76,4
15,0 a 16,0	11209	21,2						69,7
16,0 a 17,0	11210	20,5						61,7
17,0 a 18,0	11211	20,0						65,5

Cont. Furo: 2148-PM-147-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11212/75	20,5						63,6
19,0 a 20,0	11213	18,7						66,4
20,0 a 21,0	11214	15,2						
21,0 a 22,0	11215	16,6						
22,0 a 23,0	11216	19,5						
23,0 a 24,0	11217	19,7						
24,0 a 25,0	11218	19,9						
25,0 a 26,0	11219	24,4						
26,0 a 27,0	11220	25,4						
27,0 a 28,0	11221	23,2						
28,0 a 29,0	11222	21,3						
29,0 a 30,0	11223	20,3						
30,0 a 31,0	11224	21,0						
31,0 a 32,0	11225	21,1						
32,0 a 33,0	11226	20,7						
33,0 a 34,0	11227	21,4						
34,0 a 35,0	11228	18,0						
35,0 a 36,0	11229	14,8						
36,0 a 37,0	11230	20,6						
37,0 a 38,0	11231	18,4						
38,0 a 39,0	11232	17,3						
39,0 a 40,0	11233	15,2						
40,0 a 41,0	11234	19,1						
41,0 a 42,0	11235	19,0						
42,0 a 43,0	11236	18,4						
43,0 a 44,0	11237	15,2						
44,0 a 45,0	11238	14,5						
45,0 a 46,0	11239	14,5						

Cont. Furo: 2148-PM-147-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	11240/75	16,1						
47,0 a 48,0	11241	14,4						
48,0 a 49,0	11242	13,2						
49,0 a 50,0	11243	12,4						
50,0 a 51,0	11244	15,8						
51,0 a 52,0	11245	13,4						
52,0 a 53,0	11246	12,4						
53,0 a 54,0	11247	13,7						
54,0 a 55,0	11248	11,2						
55,0 a 56,0	11249	12,4						
56,0 a 57,0	11250	15,4						
57,0 a 58,50	11251	6,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-148-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11652/75	4,0						
1,0 a 2,0	11653	0,8						
2,0 a 3,0	11654	0,8						
3,0 a 4,0	11655	1,0						
4,0 a 5,0	11656	0,5						
5,0 a 6,0	11657	0,5						
6,0 a 7,0	11658	<0,5						
7,0 a 8,0	11659	1,4						
8,0 a 9,0	11660	2,3						
9,0 a 10,0	11661	2,9						
10,0 a 11,0	11662	2,9						
11,0 a 12,0	11663	2,6						
12,0 a 13,0	11664	2,9						
13,0 a 14,0	11665	3,7						
14,0 a 15,0	11666	4,0						
15,0 a 16,0	11667	2,1						
16,0 a 17,0	11668	2,1						
17,0 a 18,0	11669	3,0						

Cont. Furo: 2148-PM=148-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11670/75	10,2						
19,0 a 20,0	11671	6,1						
20,0 a 21,0	11672	11,0						
21,0 a 22,0	11673	12,6						
22,0 a 23,0	11674	10,8						
23,0 a 24,0	11675	13,4						
24,0 a 25,0	11676	11,6						
25,0 a 26,0	11677	13,3						
26,0 a 27,0	11678	8,3						
27,0 a 28,0	11679	6,4						
28,0 a 29,0	11680	6,8						
29,0 a 30,0	11681	12,7						
30,0 a 31,0	11682	12,0						
31,0 a 32,0	11683	13,3						
32,0 a 33,0	11684	18,1						
33,0 a 34,0	11685	14,8						
34,0 a 35,0	11686	15,2						
35,0 a 36,0	11687	18,3						
36,0 a 37,0	11688	13,7						
37,0 a 38,0	11689	16,2						
38,0 a 39,0	11690	17,2						
39,0 a 40,0	11691	20,2						
40,0 a 41,0	11692	14,7						
41,0 a 42,0	11693	17,2						
42,0 a 43,0	11694	16,0						
43,0 a 44,0	11695	17,2						
44,0 a 45,0	11696	22,2						

Cont. Furo: 2148-PM-148-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	11697/75	13,7						
46,0 a 47,0	11698	16,5						
47,0 a 48,0	11699	14,8						
48,0 a 49,0	11700	18,9						
49,0 a 50,0	11701	18,3						
50,0 a 51,0	11702	20,6						
51,0 a 52,0	11703	16,2						
52,0 a 53,0	11704	17,3						
53,0 a 54,0	11705	18,0						
54,0 a 55,0	11706	19,0						
55,0 a 56,0	11707	20,7						
56,0 a 57,0	11708	15,2						
57,0 a 58,0	11709	15,8						
58,0 a 59,0	11710	14,1						
59,0 a 60,0	11711	14,2						
60,0 a 61,0	11712	17,6						
61,0 a 62,0	11713	17,8						
62,0 a 63,0	11714	15,8						
63,0 a 64,0	11715	13,3						
64,0 a 65,0	11716	17,2						
65,0 a 66,0	11717	14,5						
66,0 a 67,0	11718	17,1						
67,0 a 68,0	11719	16,5						
68,0 a 69,0	11720	18,0						
69,0 a 70,0	11721	21,1						
70,0 a 71,0	11722	16,0						
71,0 a 72,0	11723	15,6						

Cont. Furo: 2148-PM-148-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	11724/75	17,7						
73,0 a 74,0	11725	18,9						
74,0 a 75,0	11726	20,7						
75,0 a 76,0	11727	15,7						
76,0 a 77,0	11728	15,7						
77,0 a 78,0	11729	14,7						
78,0 a 79,0	11730	15,0						
79,0 a 80,0	11731	22,0						
80,0 a 81,0	11732	23,0						
81,0 a 82,0	11733	21,8						
82,0 a 83,0	11734	19,6						
85,0 a 86,0	11735	18,0						
86,0 a 87,0	11736	12,4						
87,0 a 88,0	11737	15,5						
88,0 a 89,0	11738	9,1						
89,0 a 90,0	11739	5,0						
90,0 a 91,0	11740	13,0						
91,0 a 92,0	11741	6,7						
92,0 a 93,0	11742	7,2						
93,0 a 94,0	11743	17,2						
94,0 a 95,0	11744	12,5						
95,0 a 96,10	11745	8,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: IAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-149-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11257/75	1,6						
1,0 a 2,0	11258	1,2						
2,0 a 3,0	11259	1,1						
3,0 a 4,0	11260	0,7						
4,0 a 5,0	11261	1,4						
5,0 a 6,0	11262	1,1						
6,0 a 7,0	11263	1,6						
7,0 a 8,0	11264	2,1						
8,0 a 9,0	11265	3,9						
9,0 a 10,0	11266	2,9						
10,0 a 11,0	11267	4,6						
11,0 a 12,0	11268	3,7						
12,0 a 13,0	11269	2,0						
13,0 a 14,0	11270	2,0						
14,0 a 15,0	11271	2,2						
15,0 a 16,0	11272	2,0						
16,0 a 17,0	11273	2,3						
17,0 a 18,0	11274	2,2						

Cont. Furo: 2148-PM-149-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11275/75	2,0						
19,0 a 20,0	11276	1,5						
20,0 a 21,0	11277	1,7						
21,0 a 22,0	11278	2,0						
22,0 a 23,0	11279	2,1						
23,0 a 24,0	11280	2,3						
24,0 a 25,0	11281	1,7						
25,0 a 26,0	11282	1,8						
26,0 a 27,0	11283	1,4						
27,0 a 28,0	11284	2,0						
28,0 a 29,0	11285	1,7						
29,0 a 30,0	11286	1,6						
30,0 a 31,0	11287	1,1						
31,0 a 32,0	11288	1,2						
32,0 a 33,0	11289	1,5						
33,0 a 34,0	11290	1,4						
34,0 a 35,0	11291	4,1						
35,0 a 36,40	11292	4,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-150-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11582/75	19,3						
1,0 a 2,0	11583	17,5						
2,0 a 3,0	11584	24,6						
3,0 a 4,0	11585	16,0						
4,0 a 5,0	11586	16,2						
5,0 a 6,0	11587	15,8						
6,0 a 7,0	11588	23,1						
7,0 a 8,0	11589	14,6						
8,0 a 9,0	11590	15,6						
9,0 a 10,0	11591	13,5						
10,0 a 11,0	11592	11,9						
11,0 a 12,0	11593	17,2						
12,0 a 13,0	11594	15,5						
13,0 a 14,0	11595	13,1						
14,0 a 15,0	11596	6,9						
15,0 a 16,0	11597	12,0						
16,0 a 17,0	11598	4,5						
17,0 a 18,0	11599	9,1						

Cont. Furo: 2148-PM-150-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11600/75	10,7						
19,0 a 20,0	11601	20,2						
20,0 a 21,0	11602	16,7						
21,0 a 22,0	11603	5,0						
22,0 a 23,0	11604	13,7						
23,0 a 24,0	11605	10,0						
24,0 a 25,0	11606	10,8						
25,0 a 26,0	11607	5,7						
26,0 a 27,0	11608	11,5						
27,0 a 28,0	11609	4,3						
28,0 a 29,0	11610	7,5						
29,0 a 30,0	11611	3,0						
30,0 a 31,0	11612	3,3						
31,0 a 32,0	11613	10,8						
32,0 a 33,0	11614	13,5						
33,0 a 34,0	11615	7,0						
34,0 a 35,0	11616	5,0						
35,0 a 36,0	11617	9,2						
36,0 a 37,0	11618	17,5						
37,0 a 38,0	11619	6,1						
38,0 a 39,0	11620	6,0						
39,0 a 40,0	11621	15,0						
40,0 a 41,0	11622	13,0						
41,0 a 42,0	11623	11,3						
42,0 a 43,0	11624	2,8						
43,0 a 44,0	11625	13,1						
44,0 a 45,0	11626	11,1						
45,0 a 46,0	11627	9,6						

Cont. Furo: 2148-PM-150-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	11628/75	22,2						
47,0 a 48,0	11629	15,4						
48,0 a 49,0	11630	9,9						
49,0 a 50,0	11631	5,3						
50,0 a 51,0	11632	3,6						
51,0 a 52,0	11633	7,2						
52,0 a 53,0	11634	7,5						
53,0 a 54,0	11635	2,1						
54,0 a 55,0	11636	9,2						
55,0 a 56,0	11637	14,6						
56,0 a 57,0	11638	15,6						
57,0 a 58,0	11639	15,6						
58,0 a 59,0	11640	7,8						
59,0 a 60,0	11641	18,0						
60,0 a 61,0	11642	25,0						
61,0 a 62,0	11643	7,5						
62,0 a 63,0	11644	10,5						
63,0 a 64,45	11645	5,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-151-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. * CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11527/75	14,9						9,6
1,0 a 2,0	11528	15,3						28,8
2,0 a 3,0	11529	15,1						55,3
3,0 a 4,0	11530	13,0						68,1
4,0 a 5,0	11531	9,9						68,3
5,0 a 6,0	11532	9,6						74,9
6,0 a 7,0	11533	10,1						72,0
7,0 a 8,0	11534	9,8						70,0
8,0 a 9,0	11535	7,5						70,3
9,0 a 10,0	11536	4,9						75,2
10,0 a 11,0	11537	4,2						79,2
11,0 a 12,0	11538	2,3						79,5
12,0 a 13,0	11539	4,1						87,4
13,0 a 14,0	11540	2,9						89,4
14,0 a 15,0	11541	2,8						81,0
15,0 a 16,0	11542	6,5						72,5
16,0 a 17,0	11543	8,2						66,9
17,0 a 18,0	11544	6,8						73,6

Cont. Furo: 2148-PM-151-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11545/75	6,2						69,5
19,0 a 20,0	11546	3,8						68,3
20,0 a 21,0	11547	2,6						
21,0 a 22,0	11548	2,0						
22,0 a 23,0	11549	2,1						
23,0 a 24,0	11550	4,2						
24,0 a 25,0	11551	3,2						
25,0 a 26,0	11552	2,9						
26,0 a 27,0	11553	5,8						
27,0 a 28,0	11554	3,7						
28,0 a 29,0	11555	8,4						
29,0 a 30,0	11556	2,8						
30,0 a 31,0	11557	4,0						
31,0 a 32,0	11558	3,4						
32,0 a 33,0	11559	6,1						
33,0 a 34,0	11560	4,7						
34,0 a 35,0	11561	4,1						
35,0 a 36,0	11562	4,4						
36,0 a 37,0	11563	2,4						
37,0 a 38,0	11564	3,3						
38,0 a 39,0	11565	6,7						
39,0 a 40,0	11566	1,7						
40,0 a 41,0	11567	1,8						
41,0 a 42,0	11568	3,1						
42,0 a 43,0	11569	2,6						
43,0 a 44,0	11570	3,0						
44,0 a 45,0	11571	1,8						
45,0 a 46,0	11572	1,7						

Cont. Furo:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	11573/75	2,0						
47,0 a 48,0	11574	3,9						
48,0 a 49,0	11575	1,5						
49,0 a 50,0	11576	2,0						
50,0 a 51,50	11577	1,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-152-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11471/75	16,5						
1,0 a 2,0	11472	12,2						
2,0 a 3,0	11473	6,0						
3,0 a 4,0	11474	11,4						
4,0 a 5,0	11475	4,5						
5,0 a 6,0	11476	11,2						
6,0 a 7,0	11477	16,5						
7,0 a 8,0	11478	8,0						
8,0 a 9,0	11479	7,3						
9,0 a 10,0	11480	12,8						
10,0 a 11,0	11481	5,2						
11,0 a 12,0	11482	4,8						
12,0 a 13,0	11483	5,3						
13,0 a 14,0	11484	5,2						
14,0 a 15,0	11485	6,3						
15,0 a 16,0	11486	3,1						
16,0 a 17,0	11487	4,5						
17,0 a 18,0	11488	3,0						

Cont. Furo: 2148-PM-152-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11489/75	2,5						
19,0 a 20,0	11490	2,2						
20,0 a 21,0	11491	2,0						
21,0 a 22,0	11492	2,3						
22,0 a 23,0	11493	3,0						
23,0 a 24,0	11494	4,3						
24,0 a 25,0	11495	3,0						
25,0 a 26,0	11496	3,6						
26,0 a 27,0	11497	3,2						
27,0 a 28,0	11498	3,6						
28,0 a 29,0	11499	3,5						
29,0 a 30,0	11500	3,2						
30,0 a 31,0	11501	4,3						
31,0 a 32,0	11502	4,0						
32,0 a 33,0	11503	6,2						
33,0 a 34,0	11504	4,3						
34,0 a 35,0	11505	5,8						
35,0 a 36,0	11506	2,2						
36,0 a 37,0	11507	3,5						
37,0 a 38,0	11508	5,0						
38,0 a 39,0	11509	6,3						
39,0 a 40,0	11510	6,8						
40,0 a 41,0	11511	7,7						
41,0 a 42,0	11512	8,4						
42,0 a 43,0	11513	3,3						
43,0 a 44,0	11514	7,3						
44,0 a 45,0	11515	11,0						

Cont. Furo: 2148-PM-152-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	11516/75	9,1						
46,0 a 47,0	11517	2,5						
47,0 a 48,0	11518	9,4						
48,0 a 49,0	11519	9,9						
49,0 a 50,0	11520	3,7						
50,0 a 51,0	11521	2,2						
51,0 a 52,60	11522	5,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

TURO DE SONDA: 2148-PM-153-MG

OBSERVAÇÃO: * Fósforo solúvel dosado por colorimetria.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						* SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11411/75	10,3						40,5
1,0 a 2,0	11412	7,6						57,5
2,0 a 3,0	11413	3,9						81,8
3,0 a 4,0	11414	2,3						94,9
4,0 a 5,0	11415	4,8						81,3
5,0 a 6,0	11416	5,5						74,0
6,0 a 7,0	11417	3,9						85,9
7,0 a 8,0	11418	2,3						88,7
8,0 a 9,0	11419	2,7						80,2
9,0 a 10,0	11420	3,3						71,8
10,0 a 11,0	11421	4,6						67,2
11,0 a 12,0	11422	3,6						77,2
12,0 a 13,0	11423	2,8						81,8
13,0 a 14,0	11424	2,7						67,3
14,0 a 15,0	11425	2,1						77,2
15,0 a 16,0	11426	2,1						85,2
16,0 a 17,0	11427	3,9						90,7
17,0 a 18,0	11428	3,0						80,2

Cont. Furo: 2148-PM-153-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11429/75	4,8						96,6
19,0 a 20,0	11430	4,6						88,0
20,0 a 21,0	11431	3,1						
21,0 a 22,0	11432	4,0						
22,0 a 23,0	11433	6,1						
23,0 a 24,0	11434	7,6						
24,0 a 25,0	11435	5,8						
25,0 a 26,0	11436	7,3						
26,0 a 27,0	11437	5,7						
27,0 a 28,0	11438	2,8						
28,0 a 29,0	11439	2,0						
29,0 a 30,0	11440	4,0						
30,0 a 31,0	11441	2,1						
31,0 a 32,0	11442	1,8						
32,0 a 33,0	11443	1,7						
33,0 a 34,0	11444	1,2						
34,0 a 35,0	11445	1,5						
35,0 a 36,0	11446	2,1						
36,0 a 37,0	11447	1,1						
37,0 a 38,0	11448	1,1						
38,0 a 39,0	11449	1,5						
39,0 a 40,0	11450	1,7						
40,0 a 41,0	11451	2,2						
41,0 a 42,0	11452	4,9						
42,0 a 43,0	11453	2,2						
43,0 a 44,0	11454	2,2						
44,0 a 45,0	11455	2,0						
45,0 a 46,0	11456	1,9						

Cont. Furo: 2148-PM-153-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	11457/75	3,0						
47,0 a 48,0	11458	4,4						
48,0 a 49,0	11459	2,5						
49,0 a 50,0	11460	1,5						
50,0 a 51,0	11461	3,2						
51,0 a 52,0	11462	3,2						
52,0 a 53,0	11463	1,4						
53,0 a 54,0	11464	1,8						
54,0 a 55,0	11465	1,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-154-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11342/75	2,2						
1,0 a 2,0	11343	2,2						
2,0 a 3,0	11344	1,6						
3,0 a 4,0	11345	1,1						
4,0 a 5,0	11346	1,0						
5,0 a 6,0	11347	0,9						
6,0 a 7,0	11348	1,3						
7,0 a 8,0	11349	1,2						
8,0 a 9,0	11350	2,1						
9,0 a 10,0	11351	1,5						
10,0 a 11,0	11352	1,5						
11,0 a 12,0	11353	1,2						
12,0 a 13,0	11354	3,8						
13,0 a 14,0	11355	2,2						
14,0 a 15,0	11356	3,0						
15,0 a 16,0	11357	4,3						
16,0 a 17,0	11358	4,4						
17,0 a 18,0	11359	3,3						

Cont. Furo: 2148-PM-154-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11360/75	2,8						
19,0 a 20,0	11361	2,2						
20,0 a 21,0	11362	1,9						
21,0 a 22,0	11363	2,1						
22,0 a 23,0	11364	2,0						
23,0 a 24,0	11365	2,3						
24,0 a 25,0	11366	3,8						
25,0 a 26,0	11367	2,7						
26,0 a 27,0	11368	2,5						
27,0 a 28,0	11369	2,1						
28,0 a 29,0	11370	2,6						
29,0 a 30,0	11371	1,9						
30,0 a 31,0	11372	2,3						
31,0 a 32,0	11373	3,4						
32,0 a 33,0	11374	4,1						
33,0 a 34,0	11375	3,7						
34,0 a 35,0	11376	2,0						
35,0 a 36,0	11377	4,2						
36,0 a 37,0	11378	3,7						
37,0 a 38,0	11379	3,6						
38,0 a 39,0	11380	4,4						
39,0 a 40,0	11381	3,5						
40,0 a 41,0	11382	2,9						
41,0 a 42,0	11383	2,7						
42,0 a 43,0	11384	1,1						
43,0 a 44,0	11385	1,8						
44,0 a 45,0	11386	2,5						

Cont. Furo: 2148-PM-154-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	11387/75	2,3						
46,0 a 47,0	11388	2,8						
47,0 a 48,0	11389	4,4						
48,0 a 49,0	11390	4,6						
49,0 a 50,0	11391	4,2						
50,0 a 51,0	11392	3,9						
51,0 a 52,0	11393	4,9						
52,0 a 53,0	11394	5,2						
53,0 a 54,0	11395	5,9						
54,0 a 55,0	11396	3,3						
55,0 a 56,0	11397	1,9						
56,0 a 57,0	11398	2,0						
57,0 a 58,0	11399	2,9						
58,0 a 59,0	11400	2,0						
59,0 a 60,0	11401	1,1						
60,0 a 61,0	11402	1,9						
61,0 a 62,0	11403	1,9						
62,0 a 63,0	11404	1,9						
63,0 a 64,30	11405	1,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-155-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11296/75	1,1						
1,0 a 2,0	11297	1,0						
2,0 a 3,0	11298	1,3						
3,0 a 4,0	11299	0,5						
4,0 a 5,0	11300	0,8						
5,0 a 6,0	11301	0,7						
6,0 a 7,0	11302	0,6						
7,0 a 8,0	11303	0,6						
8,0 a 9,0	11304	0,9						
9,0 a 10,0	11305	0,9						
10,0 a 11,0	11306	0,7						
11,0 a 12,0	11307	1,3						
12,0 a 13,0	11308	3,3						
13,0 a 14,0	11309	3,0						
14,0 a 15,0	11310	2,3						
15,0 a 16,0	11311	1,9						
16,0 a 17,0	11312	3,1						
17,0 a 18,0	11313	2,6						

Cont. Furo: 2148-PM-155-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11314/75	2,1						
19,0 a 20,0	11315	1,6						
20,0 a 21,0	11316	1,6						
21,0 a 22,0	11317	1,8						
22,0 a 23,0	11318	1,9						
23,0 a 24,0	11319	1,5						
24,0 a 25,0	11320	1,5						
25,0 a 26,0	11321	1,8						
26,0 a 27,0	11322	1,6						
27,0 a 28,0	11323	1,0						
28,0 a 29,0	11324	1,0						
29,0 a 30,0	11325	1,9						
30,0 a 31,0	11326	1,2						
31,0 a 32,0	11327	1,8						
32,0 a 33,0	11328	3,5						
33,0 a 34,0	11329	1,1						
34,0 a 35,0	11330	1,6						
35,0 a 36,0	11331	3,1						
36,0 a 37,0	11332	3,2						
37,0 a 38,0	11333	3,0						
38,0 a 39,0	11334	3,9						
39,0 a 40,0	11335	4,6						
40,0 a 41,0	11336	5,0						
41,0 a 42,0	11337	1,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS
BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-156-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11898/75	2,3						
1,0 a 2,0	11899	1,7						
2,0 a 3,0	11900	1,9						
3,0 a 4,0	11901	1,7						
4,0 a 5,0	11902	1,9						
5,0 a 6,0	11903	1,4						
6,0 a 7,0	11904	1,5						
7,0 a 8,0	11905	1,4						
8,0 a 9,0	11906	1,5						
9,0 a 10,0	11907	1,9						
10,0 a 11,0	11908	1,6						
11,0 a 12,0	11909	1,2						
12,0 a 13,0	11910	1,4						
13,0 a 14,0	11911	1,7						
14,0 a 15,0	11912	1,7						
15,0 a 16,0	11913	1,2						
16,0 a 17,0	11914	1,3						
17,0 a 18,0	11915	1,7						

Cont. Furo: 2148-PM-156-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11916/75	2,1						
19,0 a 20,0	11917	2,4						
20,0 a 21,0	11918	3,5						
21,0 a 22,0	11919	3,1						
22,0 a 23,0	11920	2,9						
23,0 a 24,0	11921	2,4						
24,0 a 25,0	11922	3,6						
25,0 a 26,0	11923	3,7						
26,0 a 27,0	11924	3,9						
27,0 a 28,0	11925	2,4						
28,0 a 29,0	11926	2,9						
29,0 a 30,0	11927	3,1						
30,0 a 31,0	11928	3,2						
31,0 a 32,0	11929	3,8						
32,0 a 33,0	11930	4,0						
33,0 a 34,0	11931	3,1						
34,0 a 35,0	11932	2,8						
35,0 a 36,0	11933	3,5						
36,0 a 37,0	11934	3,4						
37,0 a 38,0	11935	4,0						
38,0 a 39,0	11936	4,7						
39,0 a 40,0	11937	2,3						
40,0 a 41,0	11938	1,9						
41,0 a 42,0	11939	1,5						
42,0 a 43,0	11940	2,6						
43,0 a 43,75	11941	1,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SEBLAC

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-157-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	11946/75	1,1						
1,0 a 2,0	11947	1,7						
2,0 a 3,0	11948	1,3						
3,0 a 4,0	11949	1,2						
4,0 a 5,0	11950	1,2						
5,0 a 6,0	11951	1,2						
6,0 a 7,0	11952	1,4						
7,0 a 8,0	11953	1,4						
8,0 a 9,0	11954	1,4						
9,0 a 10,0	11955	5,4						
10,0 a 11,0	11956	5,6						
11,0 a 12,0	11957	5,8						
12,0 a 13,0	11958	6,5						
13,0 a 14,0	11959	4,8						
14,0 a 15,0	11960	7,8						
15,0 a 16,0	11961	3,7						
16,0 a 17,0	11962	4,0						
17,0 a 18,0	11963	4,5						

Cont. Furo: 2148-PM-157-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	11964/75	3,1						
19,0 a 20,0	11965	3,0						
20,0 a 21,0	11966	3,4						
21,0 a 22,0	11967	3,1						
22,0 a 23,0	11968	4,4						
23,0 a 24,0	11969	5,5						
24,0 a 25,0	11970	5,8						
25,0 a 26,0	11971	6,6						
26,0 a 27,0	11972	6,2						
27,0 a 28,0	11973	4,6						
28,0 a 29,0	11974	5,4						
29,0 a 30,0	11975	6,2						
30,0 a 31,0	11976	8,3						
31,0 a 32,0	11977	5,7						
32,0 a 33,0	11978	6,8						
33,0 a 34,0	11979	5,6						
34,0 a 35,0	11980	6,9						
35,0 a 36,0	11981	6,3						
36,0 a 37,0	11982	3,3						
37,0 a 38,0	11983	2,9						
38,0 a 39,0	11984	4,4						
39,0 a 40,0	11985	4,1						
40,0 a 41,0	11986	5,0						
41,0 a 42,0	11987	5,5						
42,0 a 43,0	11988	4,1						
43,0 a 44,0	11989	4,4						
44,0 a 45,0	11990	5,1						

Cont. Furo: 2148-PM-157-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	11991/75	5,1						
46,0 a 47,0	11992	6,2						
47,0 a 48,0	11993	7,8						
48,0 a 49,0	11994	8,0						
49,0 a 50,0	11995	4,3						
50,0 a 51,0	11996	5,0						
51,0 a 52,35	11997	3,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-158-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12001/75	2,1						
1,0 a 2,0	12002	1,0						
2,0 a 3,0	12003	0,7						
3,0 a 4,0	12004	0,5						
4,0 a 5,0	12005	0,5						
5,0 a 6,0	12006	<0,5						
6,0 a 7,0	12007	0,5						
7,0 a 8,0	12008	0,5						
8,0 a 9,0	12009	0,5						
9,0 a 10,0	12010	0,5						
10,0 a 11,0	12011	0,5						
11,0 a 12,0	12012	0,5						
12,0 a 13,0	12013	0,6						
13,0 a 14,0	12014	0,5						
14,0 a 15,0	12015	0,5						
15,0 a 16,0	12016	0,5						
16,0 a 17,0	12017	0,7						
17,0 a 18,0	12018	0,5						

Cont. Puro: 2148-PM-158-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12019/75	0,5						
19,0 a 20,0	12020	0,5						
20,0 a 21,0	12021	0,5						
21,0 a 22,0	12022	0,5						
22,0 a 23,0	12023	0,5						
23,0 a 24,0	12024	0,5						
24,0 a 25,0	12025	0,5						
25,0 a 26,0	12026	0,6						
26,0 a 27,0	12027	0,6						
27,0 a 28,0	12028	0,6						
28,0 a 29,0	12029	0,6						
29,0 a 30,0	12030	0,7						
30,0 a 31,0	12031	0,6						
31,0 a 32,0	12032	0,6						
32,0 a 33,0	12033	0,9						
33,0 a 34,0	12034	0,9						
34,0 a 35,0	12035	1,0						
35,0 a 36,0	12036	0,9						
36,0 a 37,0	12037	0,7						
37,0 a 38,0	12038	0,7						
38,0 a 39,0	12039	0,6						
39,0 a 40,0	12040	1,0						
40,0 a 41,0	12041	1,3						
41,0 a 42,0	12042	0,9						
42,0 a 43,0	12043	0,9						
43,0 a 44,0	12044	0,5						
44,0 a 45,0	12045	0,7						
45,0 a 46,0	12046	2,7						

Cont. Furo: 2148-PM-158-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	12047/75	2,8						
47,0 a 48,0	12048	3,1						
48,0 a 49,0	12049	3,3						
49,0 a 50,0	12050	1,4						
50,0 a 51,0	12051	1,5						
51,0 a 52,0	12052	1,5						
52,0 a 53,0	12053	1,7						
53,0 a 54,0	12054	1,4						
54,0 a 55,0	12055	0,7						
55,0 a 56,05	12056	0,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-159-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12061/75	2,0						
1,0 a 2,0	12062	2,4						
2,0 a 3,0	12063	2,3						
3,0 a 4,0	12064	1,5						
4,0 a 5,0	12065	1,5						
5,0 a 6,0	12066	1,4						
6,0 a 7,0	12067	1,8						
7,0 a 8,0	12068	7,1						
8,0 a 9,0	12069	11,2						
9,0 a 10,0	12070	8,1						
10,0 a 11,0	12071	9,1						
11,0 a 12,0	12072	8,0						
12,0 a 13,0	12073	6,6						
13,0 a 14,0	12074	9,1						
14,0 a 15,0	12075	12,9						
15,0 a 16,0	12076	14,6						
16,0 a 17,0	12077	18,5						
17,0 a 18,0	12078	12,4						

Cont. Euro: 2148-PM-159-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12079/75	15,7						
19,0 a 20,0	12080	14,6						
20,0 a 21,0	12081	15,4						
21,0 a 22,0	12082	13,6						
22,0 a 23,0	12083	12,9						
23,0 a 24,0	12084	9,5						
24,0 a 25,0	12085	13,1						
25,0 a 26,0	12086	12,2						
26,0 a 27,0	12087	11,5						
27,0 a 28,0	12088	17,2						
28,0 a 29,0	12089	16,1						
29,0 a 30,0	12090	19,0						
30,0 a 31,0	12091	18,1						
31,0 a 32,0	12092	17,7						
32,0 a 33,0	12093	20,2						
33,0 a 34,0	12094	18,8						
34,0 a 35,0	12095	21,4						
35,0 a 36,0	12096	19,6						
36,0 a 37,0	12097	19,6						
37,0 a 38,0	12098	16,0						
38,0 a 39,0	12099	20,6						
39,0 a 40,0	12100	18,7						
40,0 a 41,0	12101	16,2						
41,0 a 42,0	12102	16,6						
42,0 a 43,0	12103	22,4						
43,0 a 44,0	12104	23,4						
44,0 a 45,0	12105	20,8						

Cont. Furo: 2148-PM-159-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	12106/75	21,0						
46,0 a 47,0	12107	17,8						
47,0 a 48,0	12108	21,0						
48,0 a 49,0	12109	21,7						
49,0 a 50,0	12110	21,5						
50,0 a 51,0	12111	22,0						
51,0 a 52,0	12112	22,0						
52,0 a 53,0	12113	21,4						
53,0 a 54,0	12114	22,2						
54,0 a 55,0	12115	19,5						
55,0 a 56,0	12116	19,2						
56,0 a 57,0	12117	12,9						
57,0 a 58,0	12118	14,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-161-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12164/75	24,3						
1,0 a 2,0	12165	25,1						
2,0 a 3,0	12166	25,2						
3,0 a 4,0	12167	14,8						
4,0 a 5,0	12168	27,3						
5,0 a 6,0	12169	27,1						
6,0 a 7,0	12170	21,5						
7,0 a 8,0	12171	15,9						
8,0 a 9,0	12172	21,5						
9,0 a 10,0	12173	9,0						
10,0 a 11,0	12174	12,9						
11,0 a 12,0	12175	13,6						
12,0 a 13,0	12176	12,0						
13,0 a 14,0	12177	15,6						
14,0 a 15,0	12178	13,4						
15,0 a 16,0	12179	14,4						
16,0 a 17,0	12180	13,6						
17,0 a 18,0	12181	15,8						

Cont. Furo: 2148-PM-161-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12182/75	9,7						
19,0 a 20,0	12183	5,1						
20,0 a 21,0	12184	9,1						
21,0 a 22,0	12185	11,7						
22,0 a 23,0	12186	11,8						
23,0 a 24,0	12187	14,9						
24,0 a 25,0	12188	23,8						
25,0 a 26,0	12189	18,3						
26,0 a 27,0	12190	24,8						
27,0 a 28,0	12191	12,7						
28,0 a 29,0	12192	18,5						
29,0 a 30,0	12193	22,6						
30,0 a 31,0	12194	22,0						
31,0 a 32,0	12195	21,2						
32,0 a 33,0	12196	20,0						
33,0 a 34,0	12197	18,2						
34,0 a 35,0	12198	17,0						
35,0 a 36,0	12199	20,4						
36,0 a 37,0	12200	23,9						
37,0 a 38,0	12201	23,8						
38,0 a 39,0	12202	21,2						
39,0 a 40,0	12203	14,5						
40,0 a 41,0	12204	13,7						
41,0 a 42,0	12205	12,5						
42,0 a 43,0	12206	14,4						
43,0 a 44,0	12207	16,0						
44,0 a 45,0	12208	14,3						
45,0 a 46,0	12209	12,5						

Cont. Furo: 2148-PM-161-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	12210/75	12,5						
47,0 a 48,0	12211	16,6						
48,0 a 49,0	12212	11,5						
49,0 a 50,0	12213	14,1						
50,0 a 51,0	12214	9,5						
51,0 a 52,0	12215	14,0						
52,0 a 53,0	12216	12,0						
53,0 a 54,0	12217	13,8						
54,0 a 55,0	12218	16,1						
55,0 a 56,0	12219	17,0						
56,0 a 57,0	12220	17,3						
57,0 a 58,0	12221	16,5						
58,0 a 59,0	12222	13,2						
59,0 a 60,0	12223	12,6						
60,0 a 61,0	12224	11,6						
61,0 a 62,0	12225	12,6						
62,0 a 63,0	12226	12,4						
63,0 a 64,10	12227	8,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SEBLAC

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-162-MG

OBSERVAÇÃO: De 71 a 73 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12233/75	20,2						
1,0 a 2,0	12234	25,3						
2,0 a 3,0	12235	18,7						
3,0 a 4,0	12236	15,5						
4,0 a 5,0	12237	14,3						
5,0 a 6,0	12238	15,1						
6,0 a 7,0	12239	15,2						
7,0 a 8,0	12240	15,3						
8,0 a 9,0	12241	15,5						
9,0 a 10,0	12242	16,7						
10,0 a 11,0	12243	14,9						
11,0 a 12,0	12244	15,2						
12,0 a 13,0	12245	15,2						
13,0 a 14,0	12246	13,0						
14,0 a 15,0	12247	10,0						
15,0 a 16,0	12248	8,7						
16,0 a 17,0	12249	12,9						
17,0 a 18,0	12250	5,6						

Cont. Furo: 2148-PM-162-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12251/75	3,2						
19,0 a 20,0	12252	3,0						
20,0 a 21,0	12253	3,6						
21,0 a 22,0	12254	4,0						
22,0 a 23,0	12255	9,5						
23,0 a 24,0	12256	15,4						
24,0 a 25,0	12257	13,5						
25,0 a 26,0	12258	14,3						
26,0 a 27,0	12259	15,5						
27,0 a 28,0	12260	14,0						
28,0 a 29,0	12261	14,7						
29,0 a 30,0	12262	15,0						
30,0 a 31,0	12263	16,5						
31,0 a 32,0	12264	12,4						
32,0 a 33,0	12265	12,1						
33,0 a 34,0	12266	11,5						
34,0 a 35,0	12267	13,4						
35,0 a 36,0	12268	9,6						
36,0 a 37,0	12269	15,4						
37,0 a 38,0	12270	12,3						
38,0 a 39,0	12271	9,6						
39,0 a 40,0	12272	3,1						
40,0 a 41,0	12273	11,5						
41,0 a 42,0	12274	11,6						
42,0 a 43,0	12275	19,3						
43,0 a 44,0	12276	13,8						
44,0 a 45,0	12277	9,7						

Cont. Furo: 2148-PM-162-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	12278/75	7,8						
46,0 a 47,0	12279	11,8						
47,0 a 48,0	12280	8,5						
48,0 a 49,0	12281	7,5						
49,0 a 50,0	12282	9,7						
50,0 a 51,0	12283	13,8						
51,0 a 52,0	12284	12,9						
52,0 a 53,0	12285	13,5						
53,0 a 54,0	12286	15,7						
54,0 a 55,0	12287	18,0						
55,0 a 56,0	12288	18,3						
56,0 a 57,0	12289	19,2						
57,0 a 58,0	12290	15,6						
58,0 a 59,0	12291	16,5						
59,0 a 60,0	12292	15,3						
60,0 a 61,0	12293	15,9						
61,0 a 62,0	12294	15,8						
62,0 a 63,0	12295	15,7						
63,0 a 64,0	12296	14,9						
64,0 a 65,0	12297	15,0						
65,0 a 66,0	12298	17,2						
66,0 a 67,0	12299	18,0						
67,0 a 68,0	12300	14,3						
68,0 a 69,0	12301	15,8						
69,0 a 70,0	12302	12,9						
70,0 a 71,0	12303	7,1						
73,0 a 74,0	12304	7,8						

Cont. Furo: 2148-PM-162-MG

Cont. Furo: 2148-PM-162-MG		ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
PROFUNDIDADE (m)	Nº DE LAB.	P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
74,0 a 75,0	12305/75	4,4						
75,0 a 76,0	12306	9,6						
76,0 a 77,0	12307	6,9						
77,0 a 78,0	12308	7,3						
78,0 a 79,05	12309	6,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-164-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12708/75	7,9						
1,0 a 2,0	12709	7,7						
2,0 a 3,0	12710	9,7						
3,0 a 4,0	12711	11,8						
4,0 a 5,0	12712	18,1						
5,0 a 6,0	12713	15,8						
6,0 a 7,0	12714	18,7						
7,0 a 8,0	12715	22,0						
8,0 a 9,0	12716	21,9						
9,0 a 10,0	12717	20,1						
10,0 a 11,0	12718	17,1						
11,0 a 12,0	12719	18,1						
12,0 a 13,0	12720	21,8						
13,0 a 14,0	12721	18,5						
14,0 a 15,0	12722	22,3						
15,0 a 16,0	12723	23,7						
16,0 a 17,0	12724	19,3						
17,0 a 18,0	12725	17,0						

Cont. Furo: 2148-PM-164-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12726/75	16,5						
19,0 a 20,0	12727	19,9						
20,0 a 21,0	12728	21,2						
21,0 a 22,0	12729	17,7						
22,0 a 23,0	12730	15,0						
23,0 a 24,0	12731	10,6						
24,0 a 25,0	12732	12,2						
25,0 a 26,0	12733	16,1						
26,0 a 27,0	12734	20,0						
27,0 a 28,0	12735	19,0						
28,0 a 29,0	12736	17,6						
29,0 a 30,0	12737	16,5						
30,0 a 31,0	12738	14,8						
31,0 a 32,0	12739	19,1						
32,0 a 33,0	12740	15,9						
33,0 a 34,0	12741	18,2						
34,0 a 35,0	12742	16,1						
35,0 a 37,0	12743	15,2						
36,0 a 37,0	12744	16,5						
37,0 a 38,0	12745	14,1						
38,0 a 39,0	12746	18,2						
39,0 a 40,0	12747	19,9						
40,0 a 41,0	12748	18,5						
41,0 a 42,0	12749	18,6						
42,0 a 43,0	12750	20,2						
43,0 a 44,0	12751	19,8						
44,0 a 45,0	12752	17,5						

Cont. Furo: 2148-PM-164-MG

[illegible]

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-165-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12602/75	21,2						
1,0 a 2,0	12603	19,8						
2,0 a 3,0	12604	16,7						
3,0 a 4,0	12605	15,7						
4,0 a 5,0	12606	18,8						
5,0 a 6,0	12607	21,2						
6,0 a 7,0	12608	17,6						
7,0 a 8,0	12609	15,1						
8,0 a 9,0	12610	17,3						
9,0 a 10,0	12611	18,4						
10,0 a 11,0	12612	17,3						
11,0 a 12,0	12613	14,1						
12,0 a 13,0	12614	18,7						
13,0 a 14,0	12615	17,1						
14,0 a 15,0	12616	14,1						
15,0 a 16,0	12617	16,0						
16,0 a 17,0	12618	17,6						
17,0 a 18,0	12619	16,8						

Cont. Furo: 2148-PM-165-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12620/75	17,3						
19,0 a 20,0	12621	16,0						
20,0 a 21,0	12622	16,4						
21,0 a 22,0	12623	18,6						
22,0 a 23,0	12624	15,6						
23,0 a 24,0	12625	9,8						
24,0 a 25,0	12626	15,1						
25,0 a 26,0	12627	12,0						
26,0 a 27,0	12628	11,2						
27,0 a 28,0	12629	12,4						
28,0 a 29,0	12630	12,3						
29,0 a 30,0	12631	18,0						
30,0 a 31,0	12632	20,6						
31,0 a 32,0	12633	18,0						
32,0 a 33,0	12634	19,6						
33,0 a 34,0	12635	16,0						
34,0 a 35,0	12636	16,6						
35,0 a 36,0	12637	16,0						
36,0 a 37,0	12638	21,4						
37,0 a 38,0	12639	23,6						
38,0 a 39,0	12640	21,3						
39,0 a 40,0	12641	23,7						
40,0 a 41,0	12642	20,9						
41,0 a 42,0	12643	15,0						
42,0 a 43,0	12644	11,9						
43,0 a 44,0	12645	9,2						
44,0 a 45,0	12646	22,4						
45,0 a 46,0	12647	21,2						

Cônt. Furo: 2148-PM-165-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	12648/75	18,0						
47,0 a 48,0	12649	22,8						
48,0 a 49,0	12650	18,7						
49,0 a 50,0	12651	22,5						
50,0 a 51,0	12652	19,2						
51,0 a 52,0	12653	14,4						
52,0 a 53,0	12654	13,5						
53,0 a 54,0	12655	20,8						
54,0 a 55,0	12656	17,7						
55,0 a 56,0	12657	17,4						
56,0 a 57,0	12658	22,5						
57,0 a 58,0	12659	19,0						
58,0 a 59,0	12660	22,2						
59,0 a 60,0	12661	22,2						
60,0 a 61,0	12662	24,1						
61,0 a 62,0	12663	16,5						
62,0 a 63,0	12664	14,8						
63,0 a 64,0	12665	22,0						
64,0 a 65,0	12666	19,4						
65,0 a 66,0	12667	22,1						
66,0 a 67,0	12668	22,6						
67,0 a 68,0	12669	18,0						
68,0 a 69,0	12670	17,6						
69,0 a 70,0	12671	20,8						
70,0 a 71,0	12672	22,3						
71,0 a 72,0	12673	20,3						
72,0 a 73,0	12674	22,5						
73,0 a 74,0	12675	17,5						

Cont. Furo: 2148-PM-165-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
74,0 a 75,0	12676/75	17,0						
75,0 a 76,0	12677	21,3						
76,0 a 77,0	12678	15,6						
77,0 a 78,0	12679	15,7						
78,0 a 79,0	12680	20,9						
79,0 a 80,0	12681	22,8						
80,0 a 81,0	12682	19,6						
81,0 a 82,0	12683	17,9						
82,0 a 83,0	12684	18,4						
83,0 a 84,0	12685	16,0						
84,0 a 85,0	12686	21,6						
85,0 a 86,0	12687	18,0						
86,0 a 87,0	12688	24,7						
87,0 a 88,0	12689	21,2						
88,0 a 89,0	12690	15,0						
89,0 a 90,0	12691	20,7						
91,0 a 92,0	12692	24,6						
92,0 a 93,0	12693	25,4						
93,0 a 94,0	12694	28,2						
94,0 a 95,0	12695	31,3						
95,0 a 96,0	12696	28,9						
96,0 a 97,0	12697	16,9						
97,0 a 98,0	12698	6,7						
98,0 a 99,15	12699	11,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SEBLAC

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-166-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOJ. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12759/75	1,7						
1,0 a 2,0	12760	1,9						
2,0 a 3,0	12761	1,8						
3,0 a 4,0	12762	1,2						
4,0 a 5,0	12763	0,5						
5,0 a 6,0	12764	<0,5						
6,0 a 7,0	12765	<0,5						
7,0 a 8,0	12766	<0,5						
8,0 a 9,0	12767	<0,5						
9,0 a 10,0	12768	<0,5						
10,0 a 11,0	12769	<0,5						
11,0 a 12,0	12770	<0,5						
12,0 a 13,0	12771	<0,5						
13,0 a 14,0	12772	<0,5						
14,0 a 15,0	12773	<0,5						
15,0 a 16,0	12774	<0,5						
16,0 a 17,0	12775	<0,5						
17,0 a 18,0	12776	<0,5						

Cont. Furo: 2148-PM-166-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12777/75	<0,5						
19,0 a 20,0	12778	<0,5						
20,0 a 21,0	12779	<0,5						
21,0 a 22,0	12780	<0,5						
22,0 a 23,0	12781	<0,5						
23,0 a 24,0	12782	<0,5						
24,0 a 25,0	12783	<0,5						
25,0 a 26,0	12784	<0,5						
26,0 a 27,0	12785	0,5						
27,0 a 28,0	12786	0,5						
28,0 a 29,0	12787	<0,5						
29,0 a 30,0	12788	<0,5						
30,0 a 31,0	12789	<0,5						
31,0 a 32,0	12790	0,5						
32,0 a 33,0	12791	<0,5						
33,0 a 34,0	12792	0,5						
34,0 a 35,0	12793	<0,5						
35,0 a 36,0	12794	<0,5						
36,0 a 37,0	12795	<0,5						
37,0 a 38,0	12796	<0,5						
38,0 a 39,0	12797	0,5						
39,0 a 40,0	12798	0,5						
40,0 a 41,0	12799	0,5						
41,0 a 42,0	12800	0,5						
42,0 a 43,0	12801	0,5						
43,0 a 44,0	12802	0,5						
44,0 a 45,0	12803	0,5						

Cont. Furo: 2148-PM-166-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	12804/75	0,5						
46,0 a 47,0	12805	0,5						
47,0 a 48,0	12806	0,5						
48,0 a 49,0	12807	0,5						
49,0 a 50,0	12808	0,6						
50,0 a 51,0	12809	0,6						
51,0 a 52,0	12810	0,6						
52,0 a 53,0	12811	0,8						
53,0 a 54,0	12812	0,5						
54,0 a 55,0	12813	<0,5						
55,0 a 56,0	12814	<0,5						
56,0 a 57,0	12815	<0,5						
57,0 a 58,0	12816	4,8						
58,0 a 59,0	12817	2,4						
59,0 a 60,0	12818	3,1						
60,0 a 61,0	12819	1,6						
61,0 a 62,0	12820	0,9						
62,0 a 63,0	12821	3,8						
63,0 a 64,0	12822	1,2						
64,0 a 65,0	12823	1,8						
65,0 a 66,0	12824	4,4						
66,0 a 67,0	12825	2,5						
67,0 a 68,0	12826	2,1						
68,0 a 69,0	12827	4,6						
69,0 a 70,0	12828	2,2						
70,0 a 71,0	12829	0,8						
71,0 a 72,0	12830	0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-167-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12840/75	2,4						
1,0 a 2,0	12841	1,6						
2,0 a 3,0	12842	0,8						
3,0 a 4,0	12843	1,2						
4,0 a 5,0	12844	0,9						
5,0 a 6,0	12845	0,5						
6,0 a 7,0	12846	0,5						
7,0 a 8,0	12847	<0,5						
8,0 a 9,0	12848	<0,5						
9,0 a 10,0	12849	<0,5						
10,0 a 11,0	12850	<0,5						
11,0 a 12,0	12851	<0,5						
12,0 a 13,0	12852	0,5						
13,0 a 14,0	12853	<0,5						
14,0 a 15,0	12854	<0,5						
15,0 a 16,0	12855	<0,5						
16,0 a 17,0	12856	<0,5						
17,0 a 18,0	12857	<0,5						

Cont. Furo: 2148-PM-167-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	12885/75	<0,5						
46,0 a 47,0	12886	<0,5						
47,0 a 48,0	12887	<0,5						
48,0 a 49,0	12888	<0,5						
49,0 a 50,0	12889	<0,5						
50,0 a 51,0	12890	<0,5						
51,0 a 52,0	12891	<0,5						
52,0 a 53,0	12892	0,5						
53,0 a 54,0	12893	0,9						
54,0 a 55,0	12894	0,5						
55,0 a 56,0	12895	0,6						
56,0 a 57,0	12896	0,7						
57,0 a 58,0	12897	0,7						
58,0 a 59,0	12898	1,0						
59,0 a 60,0	12899	1,3						
60,0 a 61,0	12900	3,3						
61,0 a 62,0	12901	1,7						
62,0 a 63,0	12902	2,2						
63,0 a 64,0	12903	2,8						
64,0 a 65,0	12904	2,1						
65,0 a 66,0	12905	6,1						
66,0 a 67,0	12906	6,8						
67,0 a 68,0	12907	6,5						
68,0 a 69,0	12908	7,9						
69,0 a 70,0	12909	9,7						
70,0 a 71,0	12910	16,3						
71,0 a 72,0	12911	19,5						

Cont. Furo: 2148-PM-167-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	12912/75	7,9						
73,0 a 74,0	12913	10,9						
74,0 a 75,0	12914	5,4						
75,0 a 76,0	12915	5,1						
76,0 a 77,0	12916	17,6						
77,0 a 78,0	12917	25,2						
78,0 a 79,0	12918	24,6						
79,0 a 80,0	12919	25,2						
80,0 a 81,0	12920	20,2						
81,0 a 82,0	12921	30,3						
82,0 a 83,0	12922	30,3						
83,0 a 84,0	12923	30,4						
84,0 a 85,0	12924	25,1						
85,0 a 86,0	12925	24,0						
86,0 a 87,0	12926	22,8						
87,0 a 88,0	12927	24,0						
88,0 a 89,0	12928	26,6						
89,0 a 90,0	12929	32,0						
90,0 a 91,0	12930	29,0						
91,0 a 92,0	12931	31,4						
92,0 a 93,0	12932	25,5						
93,0 a 94,0	12933	24,4						
94,0 a 94,80	12934	9,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-168-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12998/75	10,0						
1,0 a 2,0	12999	9,8						
2,0 a 3,0	13000	7,4						
3,0 a 4,0	13001	4,7						
4,0 a 5,0	13002	4,0						
5,0 a 6,0	13003	4,8						
6,0 a 7,0	13004	4,0						
7,0 a 8,0	13005	2,5						
8,0 a 9,0	13006	2,2						
9,0 a 10,6	13007	2,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-169-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	12942/75	1,3						
1,0 a 2,0	12943	1,1						
2,0 a 3,0	12944	0,9						
3,0 a 4,0	12945	0,9						
4,0 a 5,0	12946	1,0						
5,0 a 6,0	12947	0,7						
6,0 a 7,0	12948	0,9						
7,0 a 8,0	12949	0,7						
8,0 a 9,0	12950	0,7						
9,0 a 10,0	12951	1,0						
10,0 a 11,0	12952	0,7						
11,0 a 12,0	12953	0,9						
12,0 a 13,0	12954	1,1						
13,0 a 14,0	12955	0,7						
14,0 a 15,0	12956	0,9						
15,0 a 16,0	12957	4,0						
16,0 a 17,0	12958	2,5						
17,0 a 18,0	12959	3,8						

Cont. Furo: 2148-PM-169-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12960/75	3,8						
19,0 a 20,0	12961	3,0						
20,0 a 21,0	12962	6,3						
21,0 a 22,0	12963	7,6						
22,0 a 23,0	12964	8,4						
23,0 a 24,0	12965	6,0						
24,0 a 25,0	12966	12,0						
25,0 a 26,0	12967	18,8						
26,0 a 27,0	12968	18,0						
27,0 a 28,0	12969	16,2						
28,0 a 29,0	12970	15,9						
29,0 a 30,0	12971	16,0						
30,0 a 31,0	12972	15,5						
31,0 a 32,0	12973	18,2						
32,0 a 33,0	12974	16,7						
33,0 a 34,0	12975	17,0						
34,0 a 35,0	12976	17,6						
35,0 a 36,0	12977	18,1						
36,0 a 37,0	12978	19,2						
37,0 a 38,0	12979	17,3						
38,0 a 39,0	12980	14,6						
39,0 a 40,0	12981	14,1						
40,0 a 41,0	12982	15,0						
41,0 a 42,0	12983	0,9						
42,0 a 43,0	12984	15,1						
43,0 a 44,0	12985	12,8						
44,0 a 45,0	12986	17,7						

Cont. Furo: 2148-PM-169-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	12987/75	16,6						
46,0 a 47,0	12988	12,2						
47,0 a 48,0	12989	11,4						
48,0 a 49,0	12990	10,8						
49,0 a 50,0	12991	10,7						
50,0 a 51,0	12992	8,4						
51,0 a 52,70	12993	2,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-170-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13318/75	3,0						
1,0 a 2,0	13319	4,8						
2,0 a 3,0	13320	5,1						
3,0 a 4,0	13321	12,8						
4,0 a 5,0	13322	10,5						
5,0 a 6,0	13323	8,7						
6,0 a 7,0	13324	7,0						
7,0 a 8,0	13325	4,9						
8,0 a 9,0	13326	3,6						
9,0 a 10,0	13327	2,0						
10,0 a 11,0	13328	1,3						
11,0 a 12,0	13329	0,7						
12,0 a 13,0	13330	5,4						
13,0 a 14,0	13331	1,4						
14,0 a 15,0	13332	1,3						
15,0 a 16,0	13333	0,6						
16,0 a 17,0	13334	1,0						
17,0 a 18,0	13335	0,9						

Cont. Furo: 2148-PM-170-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13336/75	0,9						
19,0 a 20,0	13337	0,7						
20,0 a 21,0	13338	0,7						
21,0 a 22,0	13339	0,6						
22,0 a 23,0	13340	0,5						
23,0 a 24,0	13341	0,9						
24,0 a 25,0	13342	0,6						
25,0 a 26,0	13343	0,5						
26,0 a 27,0	13344	0,5						
27,0 a 28,0	13345	0,6						
28,0 a 29,0	13346	0,5						
29,0 a 30,0	13347	<0,5						
30,0 a 31,0	13348	0,5						
31,0 a 32,0	13349	0,5						
32,0 a 33,0	13350	0,5						
33,0 a 34,0	13351	<0,5						
34,0 a 35,0	13352	<0,5						
35,0 a 36,0	13353	<0,5						
36,0 a 37,0	13354	<0,5						
37,0 a 38,0	13355	<0,5						
38,0 a 39,0	13356	<0,5						
39,0 a 40,0	13357	<0,5						
40,0 a 41,0	13358	<0,5						
41,0 a 42,0	13359	<0,5						
42,0 a 43,0	13360	<0,5						
43,0 a 44,0	13361	<0,5						
44,0 a 45,0	13362	<0,5						

Cont. Furo: 2148-PM-170-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13363/75	<0,5						
46,0 a 47,0	13364	<0,5						
47,0 a 48,0	13365	<0,5						
48,0 a 49,0	13366	<0,5						
49,0 a 50,0	13367	<0,5						
50,0 a 51,0	13368	<0,5						
51,0 a 52,0	13369	<0,5						
52,0 a 53,0	13370	<0,5						
53,0 a 54,0	13371	<0,5						
54,0 a 55,0	13372	<0,5						
55,0 a 56,0	13373	<0,5						
56,0 a 57,0	13374	<0,5						
57,0 a 58,0	13375	<0,5						
58,0 a 59,59	13376	<0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-172-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13160/75	21,3						
1,0 a 2,0	13161	19,7						
2,0 a 3,0	13162	23,5						
3,0 a 4,0	13163	17,7						
4,0 a 5,0	13164	17,3						
5,0 a 6,0	13165	16,0						
6,0 a 7,0	13166	10,0						
7,0 a 8,0	13167	17,3						
8,0 a 9,0	13168	17,7						
9,0 a 10,0	13169	15,9						
10,0 a 11,0	13170	15,1						
11,0 a 12,0	13171	19,0						
12,0 a 13,0	13172	21,5						
13,0 a 14,0	13173	13,5						
14,0 a 15,0	13174	13,5						
15,0 a 16,0	13175	12,3						
16,0 a 17,0	13176	14,1						
17,0 a 18,0	13177	20,0						

Cont. Furo: 2148-PM-172-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13178/75	31,4						
19,0 a 20,0	13179	30,6						
20,0 a 21,0	13180	18,8						
21,0 a 22,0	13181	19,3						
22,0 a 23,0	13182	17,8						
23,0 a 24,0	13183	21,2						
24,0 a 25,0	13184	23,1						
25,0 a 26,0	13185	23,1						
26,0 a 27,0	13186	21,7						
27,0 a 28,0	13187	19,1						
28,0 a 29,0	13188	15,9						
29,0 a 30,0	13189	8,2						
30,0 a 31,0	13190	13,6						
31,0 a 32,0	13191	12,6						
32,0 a 33,0	13192	13,7						
33,0 a 34,0	13193	12,3						
34,0 a 35,0	13194	13,9						
35,0 a 37,0	13195	13,8						
36,0 a 37,0	13196	10,9						
37,0 a 38,0	13197	12,9						
38,0 a 39,0	13198	13,9						
39,0 a 40,0	13199	16,2						
40,0 a 41,0	13200	17,2						
41,0 a 42,0	13201	14,5						
42,0 a 43,0	13202	19,0						
43,0 a 44,0	13203	23,9						
44,0 a 45,0	13204	19,9						
45,0 a 46,0	13205	19,9						

Cont. Furo: 2148-PM-172-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	13206/75	20,6						
47,0 a 48,0	13207	15,6						
48,0 a 49,0	13208	19,6						
49,0 a 50,0	13209	17,5						
50,0 a 51,0	13210	15,7						
51,0 a 52,0	13211	22,6						
52,0 a 53,0	13212	19,8						
53,0 a 54,0	13213	21,6						
54,0 a 55,0	13214	21,8						
55,0 a 56,0	13215	15,9						
56,0 a 57,0	13216	14,8						
57,0 a 58,0	13217	15,5						
58,0 a 59,0	13218	14,4						
59,0 a 60,0	13219	22,0						
60,0 a 61,0	13220	18,6						
61,0 a 62,0	13221	13,8						
62,0 a 63,0	13222	15,5						
63,0 a 64,0	13223	16,8						
64,0 a 65,0	13224	15,2						
65,0 a 66,0	13225	14,5						
66,0 a 67,30	13226	9,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-173-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13233/75	1,3						
1,0 a 2,0	13234	1,1						
2,0 a 3,0	13235	1,8						
3,0 a 4,0	13236	1,8						
4,0 a 5,0	13237	4,0						
5,0 a 6,0	13238	3,0						
6,0 a 7,0	13239	2,2						
7,0 a 8,0	13240	4,5						
8,0 a 9,0	13241	2,2						
9,0 a 10,0	13242	2,0						
10,0 a 11,0	13243	1,3						
11,0 a 12,0	13244	1,4						
12,0 a 13,0	13245	1,7						
13,0 a 14,0	13246	3,0						
14,0 a 15,0	13247	2,3						
15,0 a 16,0	13248	2,0						
16,0 a 17,0	13249	2,0						
17,0 a 18,0	13250	1,7						

Cont. Furo: 2148-PM-173-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13251/75	1,4						
19,0 a 20,0	13252	1,3						
20,0 a 21,0	13253	2,0						
21,0 a 22,0	13254	9,8						
22,0 a 23,0	13255	10,8						
23,0 a 24,0	13256	10,2						
24,0 a 25,0	13257	15,8						
25,0 a 26,0	13258	14,0						
26,0 a 27,0	13259	10,2						
27,0 a 28,0	13260	9,3						
28,0 a 29,0	13261	11,7						
29,0 a 30,0	13262	14,1						
30,0 a 31,0	13263	15,7						
31,0 a 32,0	13264	14,6						
32,0 a 33,0	13265	13,6						
33,0 a 34,0	13266	15,0						
34,0 a 35,0	13267	16,3						
35,0 a 36,0	13268	14,1						
36,0 a 37,0	13269	14,9						
37,0 a 38,0	13270	15,8						
38,0 a 39,0	13271	14,8						
39,0 a 40,0	13272	18,8						
40,0 a 41,0	13273	17,2						
41,0 a 42,0	13274	21,4						
42,0 a 43,0	13275	12,7						
43,0 a 44,0	13276	19,6						
44,0 a 45,0	13277	13,1						

Cont. Furo: 2148-PM-173-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13278/75	15,9						
46,0 a 47,0	13279	17,4						
47,0 a 48,0	13280	17,7						
48,0 a 49,0	13281	19,0						
49,0 a 50,0	13282	15,3						
50,0 a 51,0	13283	19,1						
51,0 a 52,0	13284	23,2						
52,0 a 53,0	13285	19,7						
53,0 a 54,0	13286	17,5						
54,0 a 55,0	13287	22,1						
55,0 a 56,0	13288	20,7						
56,0 a 57,0	13289	16,1						
57,0 a 58,0	13290	14,6						
58,0 a 59,0	13291	17,9						
59,0 a 60,0	13292	18,5						
60,0 a 61,0	13293	18,4						
61,0 a 62,0	13294	23,5						
62,0 a 63,0	13295	14,4						
63,0 a 64,0	13296	17,6						
64,0 a 65,0	13297	16,0						
65,0 a 66,0	13298	19,5						
66,0 a 67,0	13299	23,1						
67,0 a 68,0	13300	11,5						
68,0 a 69,0	13301	29,2						
69,0 a 70,0	13302	28,1						
70,0 a 71,0	13303	21,5						
71,0 a 72,0	13304	18,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148- PM-174-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13381/75	5,3						
1,0 a 2,0	13382	2,5						
2,0 a 3,0	13383	1,9						
3,0 a 4,0	13384	1,8						
4,0 a 5,0	13385	1,9						
5,0 a 6,0	13386	1,7						
6,0 a 7,0	13387	2,3						
7,0 a 8,0	13388	1,9						
8,0 a 9,0	13389	1,4						
9,0 a 10,0	13390	1,1						
10,0 a 11,0	13391	1,0						
11,0 a 12,0	13392	1,0						
12,0 a 13,0	13393	0,9						
13,0 a 14,0	13394	1,0						
14,0 a 15,0	13395	1,0						
15,0 a 16,0	13396	0,9						
16,0 a 17,0	13397	0,7						
17,0 a 18,0	13398	0,7						

Cont. Furo: 2148-PM-174-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13399/75	0,9						
19,0 a 20,0	13400	0,9						
20,0 a 21,0	13401	1,0						
21,0 a 22,0	13402	0,9						
22,0 a 23,0	13403	0,9						
23,0 a 24,0	13404	0,7						
24,0 a 25,0	13405	0,9						
25,0 a 26,0	13406	0,9						
26,0 a 27,0	13407	0,9						
27,0 a 28,0	13408	0,9						
28,0 a 29,0	13409	0,9						
29,0 a 30,0	13410	1,0						
30,0 a 31,0	13411	1,0						
31,0 a 32,0	13412	1,0						
32,0 a 33,0	13413	0,9						
33,0 a 34,0	13414	1,0						
34,0 a 35,0	13415	1,0						
35,0 a 36,0	13416	2,0						
36,0 a 37,0	13417	2,5						
37,0 a 38,0	13418	1,5						
38,0 a 39,0	13419	2,1						
39,0 a 40,0	13420	1,7						
40,0 a 41,0	13421	3,5						
41,0 a 42,0	13422	3,5						
42,0 a 43,0	13423	4,0						
43,0 a 44,0	13424	3,5						
44,0 a 45,0	13425	5,0						

Cont. Furo: 2148-PM-174-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13426/75	2,5						
46,0 a 47,0	13427	2,5						
47,0 a 48,0	13428	3,3						
48,0 a 49,0	13429	2,3						
49,0 a 50,0	13430	2,5						
50,0 a 51,0	13431	4,2						
51,0 a 52,0	13432	3,5						
52,0 a 53,0	13433	1,4						
53,0 a 54,0	13434	3,2						
54,0 a 55,0	13435	3,0						
56,0 a 57,0	13436	2,8						
57,0 a 58,40	13437	1,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-175-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13143/75	1,0						
1,0 a 2,0	13144	0,6						
2,0 a 3,0	13145	<0,5						
3,0 a 4,0	13146	<0,5						
4,0 a 5,0	13147	0,5						
5,0 a 6,0	13148	2,6						
6,0 a 7,0	13149	6,6						
7,0 a 8,0	13150	1,8						
8,0 a 9,0	13151	2,0						
9,0 a 10,0	13152	2,0						
10,0 a 11,0	13153	1,8						
11,0 a 12,0	13154	1,6						
12,0 a 13,0	13155	2,0						
13,0 a 14,0	13156	3,2						
14,0 a 15,0	13157	3,8						
15,0 a 16,20	13158	1,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-176-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13057/75	12,2						
1,0 a 2,0	13058	18,4						
2,0 a 3,0	13059	22,5						
3,0 a 4,0	13060	20,3						
4,0 a 5,0	13061	19,1						
5,0 a 6,0	13062	19,3						
6,0 a 7,0	13063	21,1						
7,0 a 8,0	13064	18,5						
8,0 a 9,0	13065	15,3						
9,0 a 10,0	13066	19,4						
10,0 a 11,0	13067	24,3						
11,0 a 12,0	13068	22,3						
12,0 a 13,0	13069	24,0						
13,0 a 14,0	13070	22,4						
14,0 a 15,0	13071	22,3						
15,0 a 16,0	13072	23,5						
16,0 a 17,0	13073	18,3						
17,0 a 18,0	13074	23,0						

Cont. Furo: 2148-PM-176-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	12858/75	<0,5						
19,0 a 20,0	12859	<0,5						
20,0 a 21,0	12860	<0,5						
21,0 a 22,0	12861	<0,5						
22,0 a 23,0	12862	<0,5						
23,0 a 24,0	12863	<0,5						
24,0 a 25,0	12864	<0,5						
25,0 a 26,0	12865	<0,5						
26,0 a 27,0	12866	<0,5						
27,0 a 28,0	12867	<0,5						
28,0 a 29,0	12868	<0,5						
29,0 a 30,0	12869	<0,5						
30,0 a 31,0	12870	<0,5						
31,0 a 32,0	12871	<0,5						
32,0 a 33,0	12872	<0,5						
33,0 a 34,0	12873	<0,5						
34,0 a 35,0	12874	<0,5						
35,0 a 36,0	12875	<0,5						
36,0 a 37,0	12876	0,5						
37,0 a 38,0	12877	<0,5						
38,0 a 39,0	12878	<0,5						
39,0 a 40,0	12879	<0,5						
40,0 a 41,0	12880	<0,5						
41,0 a 42,0	12881	<0,5						
42,0 a 43,0	12882	<0,5						
43,0 a 44,0	12883	<0,5						
44,0 a 45,0	12884	<0,5						

Cont. Furo: 2148-PM-176-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13102/75	16,8						
46,0 a 47,0	13103	14,7						
47,0 a 48,0	13104	18,3						
48,0 a 49,0	13105	19,7						
49,0 a 50,0	13106	17,6						
50,0 a 51,0	13107	20,1						
51,0 a 52,0	13108	21,5						
52,0 a 53,0	13109	18,5						
53,0 a 54,0	13110	21,5						
54,0 a 55,0	13111	14,2						
55,0 a 56,0	13112	15,6						
56,0 a 57,0	13113	17,1						
57,0 a 58,0	13114	16,3						
58,0 a 59,0	13115	15,4						
59,0 a 60,0	13116	17,1						
60,0 a 61,0	13117	16,5						
61,0 a 62,0	13118	15,5						
62,0 a 63,0	13119	19,8						
63,0 a 64,0	13120	19,9						
64,0 a 65,0	13121	17,9						
65,0 a 66,0	13122	19,0						
66,0 a 67,0	13123	19,9						
67,0 a 68,0	13124	18,1						
68,0 a 69,0	13125	15,7						
69,0 a 70,0	13126	17,6						
70,0 a 71,0	13127	16,9						
71,0 a 72,0	13128	12,9						

Cont. Furo: 2148-PM-176-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
76,0 a 77,0	13129/75	20,0						
77,0 a 78,0	13130	19,3						
78,0 a 79,0	13131	17,7						
79,0 a 80,0	13132	12,6						
80,0 a 81,0	13133	12,2						
81,0 a 82,0	13134	8,4						
82,0 a 83,10	13135	7,8						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-177-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13443/75	0,5						
1,0 a 2,0	13444	0,5						
2,0 a 3,0	13445	1,0						
3,0 a 4,0	13446	0,7						
4,0 a 5,0	13447	0,5						
5,0 a 6,0	13448	<0,5						
6,0 a 7,0	13449	0,5						
7,0 a 8,0	13450	<0,5						
8,0 a 9,0	13451	<0,5						
9,0 a 10,0	13452	<0,5						
10,0 a 11,0	13453	<0,5						
11,0 a 12,0	13454	<0,5						
12,0 a 13,0	13455	<0,5						
13,0 a 14,0	13456	<0,5						
14,0 a 15,0	13457	<0,5						
15,0 a 16,0	13458	<0,5						
16,0 a 17,0	13459	<0,5						
17,0 a 18,0	13460	<0,5						

Cont. Furo: 2148-PM-177-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13461/75	<0,5						
19,0 a 20,0	13462	<0,5						
20,0 a 21,0	13463	<0,5						
21,0 a 22,0	13464	<0,5						
22,0 a 23,0	13465	<0,5						
23,0 a 24,0	13466	<0,5						
24,0 a 25,0	13467	<0,5						
25,0 a 26,0	13468	<0,5						
26,0 a 27,0	13469	<0,5						
27,0 a 28,0	13470	<0,5						
28,0 a 29,0	13471	<0,5						
29,0 a 30,0	13472	<0,5						
30,0 a 31,0	13473	<0,5						
31,0 a 32,0	13474	<0,5						
32,0 a 33,0	13475	<0,5						
33,0 a 34,0	13476	<0,5						
34,0 a 35,0	13477	<0,5						
35,0 a 36,0	13478	<0,5						
36,0 a 37,0	13479	<0,5						
37,0 a 38,0	13480	<0,5						
38,0 a 39,0	13481	<0,5						
39,0 a 40,0	13482	<0,5						
40,0 a 41,0	13483	<0,5						
41,0 a 42,0	13484	<0,5						
42,0 a 43,0	13485	<0,5						
43,0 a 44,0	13486	<0,5						
44,0 a 45,0	13487	<0,5						
45,0 a 46,0	13488	<0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-178-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13776/75	0,6						
1,0 a 2,0	13777	3,5						
2,0 a 3,0	13778	2,0						
3,0 a 4,0	13779	1,1						
4,0 a 5,0	13780	0,9						
5,0 a 6,0	13781	2,1						
6,0 a 7,0	13782	0,7						
7,0 a 8,0	13783	0,5						
8,0 a 9,0	13784	0,5						
9,0 a 10,0	13785	0,5						
10,0 a 11,0	13786	<0,5						
11,0 a 12,0	13787	0,5						
12,0 a 13,0	13788	0,5						
13,0 a 14,0	13789	0,5						
14,0 a 15,0	13790	0,6						
15,0 a 16,0	13791	1,4						
16,0 a 17,0	13792	1,0						
17,0 a 18,0	13793	1,7						

Cont. Furo: 2148-PM-178-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13794/75	2,8						
19,0 a 20,0	13795	2,8						
20,0 a 21,0	13796	1,8						
21,0 a 22,0	13797	1,6						
22,0 a 23,0	13798	1,0						
23,0 a 24,0	13799	0,7						
24,0 a 25,0	13800	1,0						
25,0 a 26,0	13801	1,0						
26,0 a 27,0	13802	0,9						
27,0 a 28,0	13803	0,7						
28,0 a 29,0	13804	0,9						
29,0 a 30,0	13805	0,7						
30,0 a 31,0	13806	0,6						
31,0 a 32,0	13807	0,5						
32,0 a 33,0	13808	0,7						
33,0 a 34,0	13809	0,6						
34,0 a 35,0	13810	0,6						
35,0 a 36,0	13811	0,6						
36,0 a 37,0	13812	1,0						
37,0 a 38,0	13813	0,5						
38,0 a 39,0	13814	0,7						
39,0 a 40,0	13815	0,6						
40,0 a 41,0	13816	0,5						
41,0 a 42,0	13817	0,7						
42,0 a 43,0	13818	0,5						
43,0 a 44,0	13819	0,5						
44,0 a 45,0	13820	0,5						

Cont. Furo: 2148-PM-178-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13821/75	0,5						
46,0 a 47,0	13822	<0,5						
47,0 a 48,0	13823	0,5						
48,0 a 49,0	13824	0,5						
49,0 a 50,0	13825	<0,5						
50,0 a 51,0	13826	<0,5						
51,0 a 52,0	13827	<0,5						
52,0 a 53,0	13828	<0,5						
53,0 a 54,0	13829	<0,5						
54,0 a 55,0	13830	<0,5						
55,0 a 56,20	13831	<0,5						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-179-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13640/75	22,8						
1,0 a 2,0	13641	22,7						
2,0 a 3,0	13642	25,9						
3,0 a 4,0	13643	23,4						
4,0 a 5,0	13644	23,1						
5,0 a 6,0	13645	20,5						
6,0 a 7,0	13646	26,0						
7,0 a 8,0	13647	18,5						
8,0 a 9,0	13648	16,0						
9,0 a 10,0	13649	10,6						
10,0 a 11,0	13650	9,7						
11,0 a 12,0	13651	13,1						
12,0 a 13,0	13652	20,4						
13,0 a 14,0	13653	15,9						
14,0 a 15,0	13654	21,4						
15,0 a 16,0	13655	21,5						
16,0 a 17,0	13656	22,6						
17,0 a 18,0	13657	27,2						

Cont. Furo: 2148-PM-179-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL: CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13658/75	24,8						
19,0 a 20,0	13659	25,8						
20,0 a 21,0	13660	19,9						
21,0 a 22,0	13661	14,4						
22,0 a 23,0	13662	24,8						
23,0 a 24,0	13663	24,9						
24,0 a 25,0	13664	23,0						
25,0 a 26,0	13665	22,3						
26,0 a 27,0	13666	17,7						
27,0 a 28,0	13667	16,0						
28,0 a 29,0	13668	20,1						
29,0 a 30,0	13669	23,5						
30,0 a 31,0	13670	20,5						
31,0 a 32,0	13671	18,6						
32,0 a 33,0	13672	24,9						
33,0 a 34,0	13673	22,4						
34,0 a 35,0	13674	19,8						
35,0 a 36,0	13675	20,8						
36,0 a 37,0	13676	20,9						
37,0 a 38,0	13677	14,5						
38,0 a 39,0	13678	15,9						
39,0 a 40,0	13679	17,7						
40,0 a 41,0	13680	11,3						
41,0 a 42,0	13681	15,5						
42,0 a 43,0	13682	12,9						
43,0 a 44,0	13683	17,3						
44,0 a 45,0	13684	18,8						

Cont. Furo: 2148-PM-179-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL.. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13685/75	19,0						
46,0 a 47,0	13686	17,8						
47,0 a 48,0	13687	17,8						
48,0 a 49,0	13688	16,2						
49,0 a 50,0	13689	19,6						
50,0 a 51,0	13690	19,1						
51,0 a 52,0	13691	17,4						
52,0 a 53,0	13692	16,9						
53,0 a 54,0	13693	13,8						
54,0 a 55,0	13694	18,5						
55,0 a 56,0	13695	17,1						
56,0 a 57,0	13696	19,1						
57,0 a 58,0	13697	19,4						
58,0 a 59,0	13698	19,1						
59,0 a 60,0	13699	19,5						
60,0 a 61,0	13700	19,4						
61,0 a 62,0	13701	18,5						
62,0 a 63,0	13702	20,2						
63,0 a 64,0	13703	19,6						
64,0 a 65,0	13704	19,5						
65,0 a 66,0	13705	18,8						
66,0 a 67,0	13706	22,3						
67,0 a 68,0	13707	24,0						
68,0 a 69,0	13708	23,3						
69,0 a 70,0	13709	24,2						
70,0 a 71,0	13710	27,4						
71,0 a 72,0	13711	22,6						

Cont. Furo: 2148-PM-179-MG

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COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO FATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FUO DE SONDA: 2148-PM-180-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13837/75	1,3						
1,0 a 2,0	13838	0,6						
2,0 a 3,0	13839	1,6						
3,0 a 4,0	13840	1,0						
4,0 a 5,0	13841	0,9						
5,0 a 6,0	13842	1,4						
6,0 a 7,0	13843	1,4						
7,0 a 8,0	13844	1,5						
8,0 a 9,0	13845	1,0						
9,0 a 10,0	13846	1,1						
10,0 a 11,0	13847	1,0						
11,0 a 12,0	13848	1,5						
12,0 a 13,0	13849	1,3						
13,0 a 14,0	13850	1,1						
14,0 a 15,0	13851	1,6						
15,0 a 16,0	13852	2,0						
16,0 a 17,0	13853	1,7						
17,0 a 18,0	13854	1,1						

Cont. Furo: 2148-PM-180-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13855/75	1,0						
19,0 a 20,0	13856	1,3						
20,0 a 21,0	13857	1,1						
21,0 a 22,0	13858	1,1						
22,0 a 23,0	13859	2,3						
23,0 a 24,0	13860	1,8						
24,0 a 25,0	13861	1,3						
25,0 a 26,0	13862	1,6						
26,0 a 27,0	13863	2,7						
27,0 a 28,0	13864	2,8						
28,0 a 29,0	13865	3,7						
29,0 a 30,0	13866	2,7						
30,0 a 31,0	13867	1,6						
31,0 a 32,0	13868	1,5						
32,0 a 33,0	13869	2,1						
33,0 a 34,0	13870	2,3						
34,0 a 35,0	13871	2,3						
35,0 a 36,0	13872	2,5						
36,0 a 37,0	13873	2,0						
37,0 a 38,0	13874	2,0						
38,0 a 39,0	13875	1,8						
39,0 a 40,0	13876	2,5						
40,0 a 41,0	13877	3,0						
41,0 a 42,0	13878	1,7						
42,0 a 43,0	13879	3,0						
43,0 a 44,0	13880	14,1						
44,0 a 45,0	13881	13,5						
45,0 a 46,0	13882	11,7						

Cont. Furo: 2148-PM-180-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	13883/75	11,2						
47,0 a 48,0	13884	14,8						
48,0 a 49,0	13885	15,6						
49,0 a 50,0	13886	11,1						
50,0 a 51,0	13887	11,8						
51,0 a 52,0	13888	13,0						
52,0 a 53,0	13889	10,5						
53,0 a 54,0	13890	12,5						
54,0 a 55,0	13891	15,0						
55,0 a 56,0	13892	15,8						
56,0 a 57,0	13893	9,9						
57,0 a 58,0	13894	16,3						
58,0 a 59,0	13895	14,2						
59,0 a 60,0	13896	8,4						
60,0 a 61,0	13897	8,4						
62,0 a 63,0	13898	8,7						
63,0 a 64,0	13899	17,5						
64,0 a 65,0	13900	12,3						
65,0 a 66,0	13901	13,8						
66,0 a 67,0	13902	11,3						
67,0 a 68,0	13903	10,9						
68,0 a 68,75	13904	6,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-182-MG

OBSERVAÇÃO: De 57 a 58 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13518/75	7,2						
1,0 a 2,0	13519	8,4						
2,0 a 3,0	13520	7,1						
3,0 a 4,0	13521	15,7						
4,0 a 5,0	13522	19,0						
5,0 a 6,0	13523	18,2						
6,0 a 7,0	13524	21,1						
7,0 a 8,0	13525	19,9						
8,0 a 9,0	13526	17,7						
9,0 a 10,0	13527	18,3						
10,0 a 11,0	13528	13,5						
11,0 a 12,0	13529	15,0						
12,0 a 13,0	13530	17,1						
13,0 a 14,0	13531	17,6						
14,0 a 15,0	13532	15,1						
15,0 a 16,0	13533	20,3						
16,0 a 17,0	13534	15,9						
17,0 a 18,0	13535	20,0						

Cont. Furo: 2148-PM-182-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13536/75	15,4						
19,0 a 20,0	13537	18,3						
20,0 a 21,0	13538	17,2						
21,0 a 22,0	13539	22,0						
22,0 a 23,0	13540	22,5						
23,0 a 24,0	13541	20,6						
24,0 a 25,0	13542	18,0						
25,0 a 26,0	13543	18,4						
26,0 a 27,0	13544	18,8						
27,0 a 28,0	13545	19,0						
28,0 a 29,0	13546	20,0						
29,0 a 30,0	13547	18,2						
30,0 a 31,0	13548	16,9						
31,0 a 32,0	13549	20,1						
32,0 a 33,0	13550	19,7						
33,0 a 34,0	13551	17,2						
34,0 a 35,0	13552	16,2						
35,0 a 36,0	13553	16,7						
36,0 a 37,0	13554	17,3						
37,0 a 38,0	13555	15,5						
38,0 a 39,0	13556	17,9						
39,0 a 40,0	13557	14,3						
40,0 a 41,0	13558	17,4						
41,0 a 42,0	13559	18,0						
42,0 a 43,0	13560	17,7						
43,0 a 44,0	13561	13,7						
44,0 a 45,0	13562	15,4						

Cont. Furo: 2148-PM-182-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	13563/75	14,8						
46,0 a 47,0	13564	14,9						
47,0 a 48,0	13565	17,3						
48,0 a 49,0	13566	17,7						
49,0 a 50,0	13567	22,6						
50,0 a 51,0	13568	21,8						
51,0 a 52,0	13569	21,9						
52,0 a 53,0	13570	18,1						
53,0 a 54,0	13571	17,8						
54,0 a 55,0	13572	13,5						
55,0 a 56,0	13573	18,5						
56,0 a 57,0	13574	15,6						
58,0 a 59,50	13575	10,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-183-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A - 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14208/75	4,5						
1,0 a 2,0	14209	3,3						
2,0 a 3,0	14210	3,0						
3,0 a 4,0	14211	4,0						
4,0 a 5,0	14212	4,3						
5,0 a 6,0	14213	6,7						
6,0 a 7,0	14214	2,5						
7,0 a 8,0	14215	3,0						
8,0 a 9,0	14216	2,3						
9,0 a 10,0	14217	3,3						
10,0 a 11,0	14218	6,4						
11,0 a 12,0	14219	6,3						
12,0 a 13,0	14220	11,4						
13,0 a 14,0	14221	6,0						
14,0 a 15,0	14222	7,3						
15,0 a 16,0	14223	8,9						
16,0 a 17,0	14224	7,2						
17,0 a 18,0	14225	5,5						

Cont. Furo: 2148-PM-183-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14226/75	5,7						
19,0 a 20,0	14227	6,1						
20,0 a 21,0	14228	8,4						
21,0 a 22,0	14229	5,3						
22,0 a 23,0	14230	7,4						
23,0 a 24,0	14031	7,5						
24,0 a 25,0	14232	8,1						
25,0 a 26,0	14233	10,2						
26,0 a 27,0	14234	4,8						
27,0 a 28,0	14235	3,6						
28,0 a 29,0	14236	13,3						
29,0 a 30,0	14237	15,0						
30,0 a 31,0	14238	6,1						
31,0 a 32,0	14239	4,5						
32,0 a 33,0	14240	9,5						
33,0 a 34,0	14241	9,2						
34,0 a 35,0	14242	13,3						
35,0 a 36,0	14243	10,7						
36,0 a 37,0	14244	8,4						
37,0 a 38,0	14245	11,0						
38,0 a 39,0	14246	14,6						
39,0 a 40,0	14247	14,6						
40,0 a 41,0	14248	16,7						
41,0 a 42,0	14249	13,6						
42,0 a 43,0	14250	15,9						
43,0 a 44,0	14251	11,2						
44,0 a 45,0	14252	11,5						

Cont. Furo: 2148-PM-183-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	14253/75	15,5						
46,0 a 47,0	14254	21,6						
47,0 a 48,0	14255	22,8						
48,0 a 49,0	14256	20,1						
49,0 a 50,0	14257	14,8						
50,0 a 51,0	14258	13,9						
51,0 a 52,0	14259	16,3						
52,0 a 53,0	14260	18,0						
53,0 a 54,0	14261	17,0						
54,0 a 55,0	14262	16,4						
55,0 a 56,0	14263	15,7						
56,0 a 57,0	14264	13,0						
57,0 a 58,0	14265	12,9						
58,0 a 59,0	14266	10,5						
59,0 a 60,0	14267	13,8						
60,0 a 61,0	14268	12,5						
61,0 a 62,0	14269	15,4						
62,0 a 63,0	14270	10,2						
63,0 a 64,0	14271	15,6						
64,0 a 65,0	14272	15,8						
65,0 a 66,0	14273	16,2						
66,0 a 67,0	14274	15,0						
67,0 a 68,0	14275	19,1						
68,0 a 69,0	14276	18,6						
69,0 a 70,0	14277	23,6						
70,0 a 71,0	14278	10,4						
71,0 a 72,0	14279	15,5						

Cont. Furo: 2148-PM-183-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
72,0 a 73,0	14280/75	12,5						
73,0 a 74,0	14281	17,1						
74,0 a 75,0	14282	16,9						
75,0 a 76,0	14283	15,4						
76,0 a 77,0	14284	12,4						
77,0 a 78,0	14285	21,4						
78,0 a 79,0	14286	19,6						
79,0 a 80,0	14287	17,5						
80,0 a 81,0	14288	16,5						
81,0 a 82,0	14289	13,8						
82,0 a 83,0	14290	13,1						
83,0 a 84,0	14291	14,0						
84,0 a 85,0	14292	16,0						
85,0 a 86,0	14293	15,0						
86,0 a 87,0	14294	14,4						
87,0 a 88,0	14295	17,0						
88,0 a 89,0	14296	14,5						
89,0 a 89,95	14297	8,0						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-184-MG

OBSERVAÇÃO: De 101 a 103 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14432/75	16,9						
1,0 a 2,0	14433	12,9						
2,0 a 3,0	14434	9,8						
3,0 a 4,0	14435	14,8						
4,0 a 5,0	14436	10,0						
5,0 a 6,0	14437	14,5						
6,0 a 7,0	14438	3,7						
7,0 a 8,0	14439	3,4						
8,0 a 9,0	14440	2,2						
9,0 a 10,0	14441	1,3						
10,0 a 11,0	14442	1,4						
11,0 a 12,0	14443	1,3						
12,0 a 13,0	14444	2,0						
13,0 a 14,0	14445	13,8						
14,0 a 15,0	14446	23,1						
15,0 a 16,0	14447	23,3						
16,0 a 17,0	14448	20,0						
17,0 a 18,0	14449	21,9						

Cont. Turo: 2148-PM-184-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14450/75	28,2						
19,0 a 20,0	14451	28,7						
20,0 a 21,0	14452	26,0						
21,0 a 22,0	14453	25,1						
22,0 a 23,0	14454	23,0						
23,0 a 24,0	14455	22,3						
24,0 a 25,0	14456	23,7						
25,0 a 26,0	14457	21,2						
26,0 a 27,0	14458	24,1						
27,0 a 28,0	14459	23,6						
28,0 a 29,0	14460	22,5						
29,0 a 30,0	14461	21,0						
30,0 a 31,0	14462	24,9						
31,0 a 32,0	14463	24,2						
32,0 a 33,0	14464	20,4						
33,0 a 34,0	14465	19,2						
34,0 a 35,0	14466	20,7						
35,0 a 36,0	14467	19,0						
36,0 a 37,0	14468	18,8						
37,0 a 38,0	14469	18,5						
38,0 a 39,0	14470	22,1						
39,0 a 40,0	14471	20,4						
40,0 a 41,0	14472	18,8						
41,0 a 42,0	14473	18,0						
42,0 a 43,0	14474	19,2						
43,0 a 44,0	14475	18,3						
44,0 a 45,0	14476	17,7						

Cont. Furo: 2148-PM-184-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	14477/75	16,0						
46,0 a 47,0	14478	16,0						
47,0 a 48,0	14479	17,2						
48,0 a 49,0	14480	18,0						
49,0 a 50,0	14481	18,4						
50,0 a 51,0	14482	20,8						
51,0 a 52,0	14483	19,7						
52,0 a 53,0	14484	15,1						
53,0 a 54,0	14485	18,0						
54,0 a 55,0	14486	17,7						
55,0 a 56,0	14487	14,9						
56,0 a 57,0	14488	16,8						
57,0 a 58,0	14489	18,8						
58,0 a 59,0	14490	18,8						
59,0 a 60,0	14491	18,0						
60,0 a 61,0	14492	22,0						
61,0 a 62,0	14493	20,7						
62,0 a 63,0	14494	18,3						
63,0 a 64,0	14495	17,9						
64,0 a 65,0	14496	17,4						
65,0 a 66,0	14497	17,4						
66,0 a 67,0	14498	15,7						
67,0 a 68,0	14499	16,5						
68,0 a 69,0	14500	16,8						
69,0 a 70,0	14501	16,7						
70,0 a 71,0	14502	15,5						
71,0 a 72,0	14503	18,5						
72,0 a 73,0	14504	19,0						

Cont. Furo: 2148-PM-184-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
73,0 a 74,0	14505/75	14,5						
74,0 a 75,0	14506	19,0						
75,0 a 76,0	14507	18,7						
76,0 a 77,0	14508	18,9						
77,0 a 78,0	14509	17,7						
78,0 a 79,0	14510	16,1						
79,0 a 80,0	14511	20,9						
80,0 a 81,0	14512	18,6						
81,0 a 82,0	14513	14,1						
82,0 a 83,0	14514	15,7						
83,0 a 84,0	14515	17,2						
84,0 a 85,0	14516	18,2						
85,0 a 86,0	14517	19,5						
86,0 a 87,0	14518	19,1						
87,0 a 88,0	14519	18,2						
88,0 a 89,0	14520	19,5						
89,0 a 90,0	14521	22,0						
90,0 a 91,0	14522	21,1						
91,0 a 92,0	14523	19,0						
92,0 a 93,0	14524	18,8						
93,0 a 94,0	14525	19,0						
94,0 a 95,0	14526	19,5						
95,0 a 96,0	14527	17,8						
96,0 a 97,0	14528	15,1						
97,0 a 98,0	14529	16,8						
98,0 a 99,0	14530	18,5						
99,0 a 100,0	14531	18,7						
100,0 a 101,0	14532	33,8						

Cont. Furo: 2148-PM-184-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
103,0 a 104,0	14533/75	15,0						
104,0 a 105,0	14534	14,2						
105,0 a 106,0	14535	15,2						
106,0 a 107,0	14536	9,9						
107,0 a 108,50	14537	8,2						

COMPANHIA DE PESQUISA DE RECURSOS-MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-185-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13911/75	0,5						
1,0 a 2,0	13912	0,5						
2,0 a 3,0	13913	0,6						
3,0 a 4,0	13914	0,5						
4,0 a 5,0	13915	0,6						
5,0 a 6,0	13916	0,7						
6,0 a 7,0	13917	0,6						
7,0 a 8,0	13918	0,5						
8,0 a 9,0	13919	0,6						
9,0 a 10,0	13920	0,6						
10,0 a 11,0	13921	0,5						
11,0 a 12,0	13922	0,6						
12,0 a 13,0	13923	0,6						
13,0 a 14,0	13924	0,6						
14,0 a 15,0	13925	0,6						
15,0 a 16,0	13926	0,5						
16,0 a 17,0	13927	0,5						
17,0 a 18,0	13928	0,6						

Cont. Furo: 2148-PM-185-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13929/75	0,7						
19,0 a 20,0	13930	2,7						
20,0 a 21,0	13931	1,0						
21,0 a 22,0	13932	1,0						
22,0 a 23,0	13933	1,3						
23,0 a 24,0	13934	1,8						
24,0 a 25,0	13935	1,1						
25,0 a 26,0	13936	0,7						
26,0 a 27,0	13937	0,7						
27,0 a 28,0	13938	1,1						
28,0 a 29,0	13939	1,0						
29,0 a 30,0	13940	0,7						
30,0 a 31,0	13941	0,7						
31,0 a 32,0	13942	0,7						
32,0 a 33,0	13943	0,7						
33,0 a 34,0	13944	0,7						
34,0 a 35,0	13945	0,7						
35,0 a 36,0	13946	0,6						
36,0 a 37,0	13947	0,9						
37,0 a 38,0	13948	0,7						
38,0 a 39,0	13949	0,5						
39,0 a 40,0	13950	0,5						
40,0 a 41,0	13951	0,5						
41,0 a 42,0	13952	0,6						
42,0 a 43,0	13953	0,6						
43,0 a 44,0	13954	0,5						
44,0 a 45,0	13955	0,6						
45,0 a 46,0	13956	0,7						

Cont. Furo: 2148-PM-185-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	13757/75	0,9						
47,0 a 48,0	13758	0,5						
48,0 a 49,0	13759	<0,5						
49,0 a 50,0	13760	0,5						
50,0 a 51,0	13761	0,7						
51,0 a 52,0	13762	1,1						
52,0 a 53,0	13763	1,6						
53,0 a 54,0	13764	2,0						
54,0 a 55,0	13765	1,6						
55,0 a 56,30	13766	1,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-186-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14165/75	29,1						
1,0 a 2,0	14166	28,8						
2,0 a 3,0	14167	32,0						
3,0 a 4,0	14168	32,2						
4,0 a 5,0	14169	31,2						
5,0 a 6,0	14170	24,0						
6,0 a 7,0	14171	24,0						
7,0 a 8,0	14172	29,0						
8,0 a 9,0	14173	32,2						
9,0 a 10,0	14174	30,7						
10,0 a 11,0	14175	28,5						
11,0 a 12,0	14176	23,7						
12,0 a 13,0	14177	22,9						
13,0 a 14,0	14178	22,3						
14,0 a 15,0	14179	17,2						
15,0 a 16,0	14180	19,3						
16,0 a 17,0	14181	19,1						
17,0 a 18,0	14182	19,0						

Cont. Furo: 2148-PM-186-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14183/75	10,1						
19,0 a 20,0	14184	6,4						
20,0 a 21,0	14185	5,5						
21,0 a 22,0	14186	7,7						
22,0 a 23,0	14187	4,6						
23,0 a 24,0	14188	6,0						
24,0 a 25,0	14189	5,5						
25,0 a 26,0	14190	5,1						
26,0 a 27,0	14191	6,4						
27,0 a 28,0	14192	6,3						
28,0 a 29,0	14193	7,3						
29,0 a 30,0	14194	7,0						
30,0 a 31,0	14195	24,6						
31,0 a 32,0	14196	16,0						
32,0 a 33,0	14197	16,8						
33,0 a 34,0	14198	18,1						
34,0 a 35,0	14199	21,5						
35,0 a 36,0	14200	20,4						
36,0 a 37,0	14201	18,4						
37,0 a 38,0	14202	21,5						
38,0 a 39,0	14203	8,9						
39,0 a 40,60	14204	6,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: LAPEM

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-187-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14081/75	15,6						
1,0 a 2,0	14082	18,9						
2,0 a 3,0	14083	20,0						
3,0 a 4,0	14084	19,9						
4,0 a 5,0	14085	19,0						
5,0 a 6,0	14086	17,5						
6,0 a 7,0	14087	17,6						
7,0 a 8,0	14088	17,9						
8,0 a 9,0	14089	16,9						
9,0 a 10,0	14090	13,7						
10,0 a 11,0	14091	13,5						
11,0 a 12,0	14092	11,4						
12,0 a 13,0	14093	18,5						
13,0 a 14,0	14094	20,5						
14,0 a 15,0	14095	19,4						
15,0 a 16,0	14096	20,7						
16,0 a 17,0	14097	21,4						
17,0 a 18,0	14098	19,8						

Cont. Furo: 2148-PM-187-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14099/75	20,4						
19,0 a 20,0	14100	18,0						
20,0 a 21,0	14101	18,4						
21,0 a 22,0	14102	18,8						
22,0 a 23,0	14103	17,8						
23,0 a 24,0	14104	18,2						
24,0 a 25,0	14105	19,9						
25,0 a 26,0	14106	18,0						
26,0 a 27,0	14107	16,3						
27,0 a 28,0	14108	15,8						
28,0 a 29,0	14109	20,0						
29,0 a 30,0	14110	20,4						
30,0 a 31,0	14111	19,3						
31,0 a 32,0	14112	13,2						
32,0 a 33,0	14113	18,5						
33,0 a 34,0	14114	17,9						
34,0 a 35,0	14115	23,0						
35,0 a 36,0	14116	22,3						
36,0 a 37,0	14117	14,4						
37,0 a 38,0	14118	16,9						
38,0 a 39,0	14119	14,5						
39,0 a 40,0	14120	15,3						
40,0 a 41,0	14121	17,3						
41,0 a 42,0	14122	17,4						
42,0 a 43,0	14123	17,6						
43,0 a 44,0	14124	17,7						
44,0 a 45,0	14125	18,8						
45,0 a 46,0	14126	19,9						

Cont. Furo: 2148-PM-187-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	14127/75	17,0						
47,0 a 48,0	14128	17,5						
48,0 a 49,0	14129	19,6						
49,0 a 50,0	14130	20,0						
50,0 a 51,0	14131	20,3						
51,0 a 52,0	14132	20,0						
52,0 a 53,0	14133	25,0						
53,0 a 54,0	14134	25,0						
54,0 a 55,0	14135	17,9						
55,0 a 56,0	14136	17,8						
56,0 a 57,0	14137	12,5						
57,0 a 58,0	14138	14,5						
58,0 a 59,0	14139	16,0						
59,0 a 60,0	14140	18,8						
60,0 a 61,0	14141	17,6						
61,0 a 62,0	14142	16,1						
62,0 a 63,0	14143	17,9						
63,0 a 64,0	14144	12,9						
64,0 a 65,0	14145	22,7						
65,0 a 66,0	14146	27,3						
66,0 a 67,0	14147	20,1						
67,0 a 68,0	14148	16,8						
68,0 a 69,0	14149	15,2						
69,0 a 70,0	14150	18,9						
70,0 a 71,0	14151	17,7						
71,0 a 72,0	14152	20,3						
72,0 a 73,0	14153	17,0						
73,0 a 74,0	14154	18,0						

Cont. Furo: 2148-PM-187-MG

PROFUNDIDADE (m)	Nº. DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
74,0 a 75,0	14155/75	17,9						
75,0 a 76,0	14156	15,0						
76,0 a 77,25	14157	8,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-188-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14025/75	2,9						
1,0 a 2,0	14026	4,0						
2,0 a 3,0	14027	7,2						
3,0 a 4,0	14028	6,6						
4,0 a 5,0	14029	8,3						
5,0 a 6,0	14030	9,9						
6,0 a 7,0	14031	7,6						
7,0 a 8,0	14032	4,4						
8,0 a 9,0	14033	7,8						
9,0 a 10,0	14034	9,3						
10,0 a 11,0	14035	11,6						
11,0 a 12,0	14036	16,2						
12,0 a 13,0	14037	14,3						
13,0 a 14,0	14038	14,5						
14,0 a 15,0	14039	14,7						
15,0 a 16,0	14040	14,5						
16,0 a 17,0	14041	15,0						

Cont. Furo: 2148- PM- 188-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
17,0 a 18,0	14042/75	13,0						
18,0 a 19,0	14043	16,2						
19,0 a 20,0	14044	15,3						
20,0 a 21,0	14045	16,0						
21,0 a 22,0	14046	18,2						
22,0 a 23,0	14047	19,7						
23,0 a 24,0	14048	19,7						
24,0 a 25,0	14049	19,8						
25,0 a 26,0	14050	21,6						
26,0 a 27,0	14051	21,8						
27,0 a 28,0	14052	21,7						
28,0 a 29,0	14053	18,4						
29,0 a 30,0	14054	6,4						
30,0 a 31,0	14055	20,6						
31,0 a 32,0	14056	18,9						
32,0 a 33,0	14057	16,4						
33,0 a 34,0	14058	19,5						
34,0 a 35,0	14059	19,9						
35,0 a 36,0	14060	26,7						
36,0 a 37,0	14061	18,1						
37,0 a 38,0	14062	25,9						
38,0 a 39,0	14063	19,8						
39,0 a 40,0	14064	21,2						
40,0 a 41,0	14065	17,5						
41,0 a 42,0	14066	19,1						
42,0 a 43,0	14067	13,7						
43,0 a 44,0	14068	17,5						
44,0 a 45,0	14069	20,0						

Cont. Furo: 2148-PM-188-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	14070/75	19,2						
46,0 a 47,0	14071	17,0						
47,0 a 48,0	14072	14,2						
48,0 a 49,0	14073	15,7						
49,0 a 50,0	14074	16,1						
50,0 a 51,0	14075	7,7						
51,0 a 51,80	14076	7,4						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-189-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	13972/75	2,7						
1,0 a 2,0	13973	1,5						
2,0 a 3,0	13974	1,0						
3,0 a 4,0	13975	0,8						
4,0 a 5,0	13976	0,9						
5,0 a 6,0	13977	0,7						
6,0 a 7,0	13978	0,8						
7,0 a 8,0	13979	0,8						
8,0 a 9,0	13980	0,9						
9,0 a 10,0	13981	1,2						
10,0 a 11,0	13982	1,5						
11,0 a 12,0	13983	1,0						
12,0 a 13,0	13984	1,0						
13,0 a 14,0	13985	1,1						
14,0 a 15,0	13986	1,6						
15,0 a 16,0	13987	1,1						
16,0 a 17,0	13988	1,1						
17,0 a 18,0	13939	1,4						

Cont. Furo: 2148-PM-189-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	13990/75	2,9						
19,0 a 20,0	13991	4,6						
20,0 a 21,0	13992	5,1						
21,0 a 22,0	13993	2,0						
22,0 a 23,0	13994	4,3						
23,0 a 24,0	13995	2,4						
24,0 a 25,0	13996	2,7						
25,0 a 26,0	13997	1,4						
26,0 a 27,0	13998	2,9						
27,0 a 28,0	13999	1,2						
28,0 a 29,0	14000	1,1						
29,0 a 30,0	14001	1,2						
30,0 a 31,0	14002	2,0						
31,0 a 32,0	14003	1,3						
32,0 a 33,0	14004	1,1						
33,0 a 34,0	14005	1,0						
34,0 a 35,0	14006	1,0						
35,0 a 36,0	14007	0,9						
36,0 a 37,0	14008	1,0						
37,0 a 38,0	14009	1,2						
38,0 a 39,0	14010	1,3						
39,0 a 40,0	14011	2,9						
40,0 a 41,0	14012	3,3						
41,0 a 42,0	14013	2,7						
42,0 a 43,0	14014	2,8						
43,0 a 44,0	14015	2,8						
44,0 a 45,0	14016	3,5						
45,0 a 46,0	14017	5,4						

Cont. Furo: 2148-PM-189-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	14018/75	3,2						
47,0 a 48,0	14019	3,1						
48,0 a 49,30	14020	1,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-190-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14548/75	13,3						
1,0 a 2,0	14549	17,7						
2,0 a 3,0	14550	19,5						
3,0 a 4,0	14551	18,3						
4,0 a 5,0	14552	17,2						
5,0 a 6,0	14553	15,4						
6,0 a 7,0	14554	9,6						
7,0 a 8,0	14555	18,7						
8,0 a 9,0	14556	19,4						
9,0 a 10,0	14557	21,2						
10,0 a 11,0	14558	21,2						
11,0 a 12,0	14559	20,1						
12,0 a 13,0	14560	19,2						
13,0 a 14,0	14561	19,2						
14,0 a 15,0	14562	15,1						
15,0 a 16,0	14563	16,4						
16,0 a 17,0	14564	18,6						
17,0 a 18,0	14565	15,3						

Cont. Furo: 2148-PM-190-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14566/75	13,9						
19,0 a 20,0	14567	13,9						
20,0 a 21,0	14568	12,7						
21,0 a 22,0	14569	12,0						
22,0 a 23,0	14570	14,1						
23,0 a 24,0	14571	17,0						
24,0 a 25,0	14572	21,8						
25,0 a 26,0	14573	21,7						
26,0 a 27,0	14574	21,2						
27,0 a 28,0	14575	18,7						
28,0 a 29,0	14576	13,6						
29,0 a 30,0	14577	16,5						
30,0 a 31,0	14578	13,9						
31,0 a 32,0	14579	15,7						
32,0 a 33,0	14580	13,0						
33,0 a 34,0	14581	14,2						
34,0 a 35,0	14582	17,0						
35,0 a 36,0	14583	19,2						
36,0 a 37,0	14584	20,0						
37,0 a 38,0	14585	19,5						
38,0 a 39,0	14586	20,3						
39,0 a 40,0	14587	19,9						
40,0 a 41,0	14588	19,5						
41,0 a 42,0	14589	16,7						
42,0 a 43,0	14590	18,3						
43,0 a 44,0	14591	18,0						
44,0 a 45,0	14592	17,8						
45,0 a 46,0	14593	17,0						

Cont. Furo: 2148-PM-190-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	14594/75	24,2						
47,0 a 48,0	14595	25,5						
48,0 a 49,0	14596	23,6						
49,0 a 50,0	14597	16,1						
50,0 a 51,0	14598	16,5						
51,0 a 52,0	14599	13,6						
52,0 a 53,0	14600	11,5						
53,0 a 54,0	14601	9,3						
54,0 a 55,0	14602	16,2						
55,0 a 56,0	14603	8,6						
56,0 a 57,0	14604	6,4						
57,0 a 58,0	14605	4,1						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-191-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14613/75	16,5						
1,0 a 2,0	14614	15,0						
2,0 a 3,0	14615	7,6						
3,0 a 4,0	14616	6,9						
4,0 a 5,0	14617	6,7						
5,0 a 6,0	14618	5,3						
6,0 a 7,0	14619	5,3						
7,0 a 8,0	14620	3,4						
8,0 a 9,0	14621	7,4						
9,0 a 10,0	14622	4,3						
10,0 a 11,0	14623	3,1						
11,0 a 12,0	14624	2,9						
12,0 a 13,0	14625	2,3						
13,0 a 14,0	14626	2,9						
14,0 a 15,0	14627	5,6						
15,0 a 16,0	14628	5,6						
16,0 a 17,0	14629	11,6						
17,0 a 18,0	14630	11,8						

Cont. Furo: 2148-PM-191-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14631/75	11,8						
19,0 a 20,0	14632	11,8						
20,0 a 21,0	14633	11,5						
21,0 a 22,0	14634	9,7						
22,0 a 23,0	14635	9,4						
23,0 a 24,0	14636	13,8						
24,0 a 25,0	14637	13,7						
25,0 a 26,0	14638	13,9						
26,0 a 27,0	14639	16,5						
27,0 a 28,0	14640	16,6						
28,0 a 29,0	14641	9,2						
29,0 a 30,0	14642	13,5						
30,0 a 31,0	14643	14,8						
31,0 a 32,0	14644	15,2						
32,0 a 33,0	14645	9,8						
33,0 a 34,0	14646	12,5						
34,0 a 35,0	14647	9,4						
35,0 a 36,0	14648	8,1						
36,0 a 37,0	14649	8,7						
37,0 a 38,0	14650	13,2						
38,0 a 39,0	14651	7,7						
39,0 a 40,0	14652	9,0						
40,0 a 41,0	14653	8,7						
41,0 a 42,0	14654	7,9						
42,0 a 43,0	14655	7,6						
43,0 a 44,0	14656	7,9						
44,0 a 45,0	14657	4,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-191-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14613/75	16,5						
1,0 a 2,0	14614	15,0						
2,0 a 3,0	14615	7,6						
3,0 a 4,0	14616	6,9						
4,0 a 5,0	14617	6,7						
5,0 a 6,0	14618	5,3						
6,0 a 7,0	14619	5,3						
7,0 a 8,0	14620	3,4						
8,0 a 9,0	14621	7,4						
9,0 a 10,0	14622	4,3						
10,0 a 11,0	14623	3,1						
11,0 a 12,0	14624	2,9						
12,0 a 13,0	14625	2,3						
13,0 a 14,0	14626	2,9						
14,0 a 15,0	14627	5,6						
15,0 a 16,0	14628	5,6						
16,0 a 17,0	14629	11,6						
17,0 a 18,0	14630	11,8						

Cont. Furo: 2148-PM-191-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14631/75	11,8						
19,0 a 20,0	14632	11,8						
20,0 a 21,0	14633	11,5						
21,0 a 22,0	14634	9,7						
22,0 a 23,0	14635	9,4						
23,0 a 24,0	14636	13,8						
24,0 a 25,0	14637	13,7						
25,0 a 26,0	14638	13,9						
26,0 a 27,0	14639	16,5						
27,0 a 28,0	14640	16,6						
28,0 a 29,0	14641	9,2						
29,0 a 30,0	14642	13,5						
30,0 a 31,0	14643	14,8						
31,0 a 32,0	14644	15,2						
32,0 a 33,0	14645	9,8						
33,0 a 34,0	14646	12,5						
34,0 a 35,0	14647	9,4						
35,0 a 36,0	14648	8,1						
36,0 a 37,0	14649	8,7						
37,0 a 38,0	14650	13,2						
38,0 a 39,0	14651	7,7						
39,0 a 40,0	14652	9,0						
40,0 a 41,0	14653	8,7						
41,0 a 42,0	14654	7,9						
42,0 a 43,0	14655	7,6						
43,0 a 44,0	14656	7,9						
44,0 a 45,0	14657	4,7						

Cont. Furo: 2148-PM-191-MG

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COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-192- MG

OBSERVAÇÃO: De 44 a 45 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14664/75	1,6						
1,0 a 2,0	14665	1,8						
2,0 a 3,0	14666	1,2						
3,0 a 4,0	14667	1,8						
4,0 a 5,0	14668	1,8						
5,0 a 6,0	14669	1,5						
6,0 a 7,0	14670	1,4						
7,0 a 8,0	14671	2,7						
8,0 a 9,0	14672	4,4						
9,0 a 10,0	14673	4,6						
10,0 a 11,0	14674	2,9						
11,0 a 12,0	14675	1,8						
12,0 a 13,0	14676	1,3						
13,0 a 14,0	14677	1,5						
14,0 a 15,0	14678	2,0						
15,0 a 16,0	14679	3,1						
16,0 a 17,0	14680	2,1						
17,0 a 18,0	14681	1,6						

Cont. Furo: 2148-PM-192-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14682/75	2,8						
19,0 a 20,0	14683	2,8						
20,0 a 21,0	14684	3,0						
21,0 a 22,0	14685	3,1						
22,0 a 23,0	14686	3,4						
23,0 a 24,0	14687	2,8						
24,0 a 25,0	14688	2,4						
25,0 a 26,0	14689	1,7						
26,0 a 27,0	14690	2,3						
27,0 a 28,0	14691	2,6						
28,0 a 29,0	14692	2,1						
29,0 a 30,0	14693	1,8						
30,0 a 31,0	14694	1,5						
31,0 a 32,0	14695	1,4						
32,0 a 33,0	14696	2,3						
33,0 a 34,0	14697	2,4						
34,0 a 35,0	14698	3,2						
35,0 a 36,0	14699	3,0						
36,0 a 37,0	14700	2,2						
37,0 a 38,0	14701	2,9						
38,0 a 39,0	14702	2,2						
39,0 a 40,0	14703	1,9						
40,0 a 41,0	14704	1,9						
41,0 a 42,0	14705	2,1						
42,0 a 43,0	14706	2,3						
43,0 a 44,0	14707	1,3						
45,0 a 46,55	14708	1,9						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SEBLAC

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-193-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14713/75	3,1						
1,0 a 2,0	14714	2,8						
2,0 a 3,0	14715	3,2						
3,0 a 4,0	14716	3,1						
4,0 a 5,0	14717	2,8						
5,0 a 6,0	14718	4,5						
6,0 a 7,0	14719	4,1						
7,0 a 8,0	14720	4,8						
8,0 a 9,0	14721	2,5						
9,0 a 10,0	14722	2,7						
10,0 a 11,0	14723	1,9						
11,0 a 12,0	14724	1,8						
12,0 a 13,0	14725	1,9						
13,0 a 14,0	14726	1,2						
14,0 a 15,0	14727	1,3						
15,0 a 16,0	14728	1,2						
16,0 a 17,0	14729	1,2						
17,0 a 18,0	14730	1,6						

Cont. Furo: 2148-PM-193-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14731/75	1,3						
19,0 a 20,0	14732	1,1						
20,0 a 21,0	14733	1,0						
21,0 a 22,0	14734	1,0						
22,0 a 23,0	14735	1,0						
23,0 a 24,0	14736	0,9						
24,0 a 25,0	14737	1,0						
25,0 a 26,0	14738	1,0						
26,0 a 27,0	14739	1,0						
27,0 a 28,0	14740	1,0						
28,0 a 29,0	14741	1,6						
29,0 a 30,0	14742	1,8						
30,0 a 31,0	14743	4,4						
31,0 a 32,0	14744	9,1						
32,0 a 33,0	14745	12,2						
33,0 a 34,0	14746	12,1						
34,0 a 35,0	14747	7,1						
35,0 a 36,0	14748	9,5						
36,0 a 37,0	14749.	11,8						
37,0 a 38,0	14750	9,0						
38,0 a 39,0	14751	9,9						
39,0 a 40,0	14752	7,4						
40,0 a 41,0	14753	11,6						
41,0 a 42,0	14754	13,7						
42,0 a 43,0	14755	14,6						
43,0 a 44,0	14756	13,6						
44,0 a 45,0	14757	16,4						

Cont. Furo: 2148-PM-193-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
45,0 a 46,0	14758/75	14,1						
46,0 a 47,0	14759	13,3						
47,0 a 48,0	14760	17,1						
48,0 a 49,0	14761	15,7						
49,0 a 50,0	14762	12,5						
50,0 a 51,0	14763	13,7						
51,0 a 52,0	14764	14,8						
52,0 a 53,40	14765	16,6						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-194-MG

OBSERVAÇÃO: De 67 a 68 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14771/75	3,1						
1,0 a 2,0	14772	2,7						
2,0 a 3,0	14773	2,9						
3,0 a 4,0	14774	3,4						
4,0 a 5,0	14775	4,5						
5,0 a 6,0	14776	4,7						
6,0 a 7,0	14777	4,7						
7,0 a 8,0	14778	3,3						
8,0 a 9,0	14779	2,1						
9,0 a 10,0	14780	1,8						
10,0 a 11,0	14781	2,2						
11,0 a 12,0	14782	1,7						
12,0 a 13,0	14783	2,1						
13,0 a 14,0	14784	2,3						
14,0 a 15,0	14785	1,8						
15,0 a 16,0	14786	2,2						
16,0 a 17,0	14787	1,6						

Cont. Furo: 2148-PM-194-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
44,0 a 45,0	14815/75	11,9						
45,0 a 46,0	14816	9,4						
46,0 a 47,0	14817	14,6						
47,0 a 48,0	14818	8,6						
48,0 a 49,0	14819	6,4						
49,0 a 50,0	14820	6,8						
50,0 a 51,0	14821	10,0						
51,0 a 52,0	14822	13,3						
52,0 a 53,0	14823	7,6						
53,0 a 54,0	14824	8,9						
54,0 a 55,0	14825	6,9						
55,0 a 56,0	14826	12,3						
56,0 a 57,0	14827	17,6						
57,0 a 58,0	14828	19,3						
58,0 a 59,0	14829	12,6						
59,0 a 60,0	14830	15,8						
60,0 a 61,0	14831	15,8						
61,0 a 62,0	14832	13,6						
62,0 a 63,0	14833	13,7						
63,0 a 64,0	14834	12,5						
64,0 a 65,0	14835	7,7						
65,0 a 66,0	14836	4,4						
66,0 a 67,0	14837	5,8						
68,0 a 68,40	14838	5,3						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-195-MG

OBSERVAÇÃO: De 45 a 46 sem recuperação.

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14845/5	2,0						
1,0 a 2,0	14846	1,9						
2,0 a 3,0	14847	2,9						
3,0 a 4,0	14848	1,6						
4,0 a 5,0	14849	1,5						
5,0 a 6,0	14850	2,2						
6,0 a 7,0	14851	3,3						
7,0 a 8,0	14852	5,4						
8,0 a 9,0	14853	7,9						
9,0 a 10,0	14854	4,7						
10,0 a 11,0	14855	2,8						
11,0 a 12,0	14856	2,8						
12,0 a 13,0	14857	3,1						
13,0 a 14,0	14858	2,2						
14,0 a 15,0	14859	1,2						
15,0 a 16,0	14860	4,3						
16,0 a 17,0	14861	7,5						
17,0 a 18,0	14862	2,8						

Cont. Furo: 2148-PM-195-MG

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
18,0 a 19,0	14863/75	3,0						
19,0 a 20,0	14864	3,4						
20,0 a 21,0	14865	1,8						
21,0 a 22,0	14866	3,6						
22,0 a 23,0	14867	2,3						
23,0 a 24,0	14868	1,8						
24,0 a 25,0	14869	2,0						
25,0 a 26,0	14870	2,4						
26,0 a 27,0	14871	2,6						
27,0 a 28,0	14872	2,0						
28,0 a 29,0	14873	2,2						
29,0 a 30,0	14874	2,3						
30,0 a 31,0	14875	2,1						
31,0 a 32,0	14876	2,0						
32,0 a 33,0	14877	2,0						
33,0 a 34,0	14878	1,5						
34,0 a 35,0	14879	2,0						
35,0 a 36,0	14880	2,6						
36,0 a 37,0	14881	2,6						
37,0 a 38,0	14882	1,5						
38,0 a 39,0	14883	2,2						
39,0 a 40,0	14884	2,6						
40,0 a 41,0	14885	2,5						
41,0 a 42,0	14886	1,6						
42,0 a 43,0	14887	1,2						
43,0 a 44,0	14888	3,0						
44,0 a 45,0	14889	2,8						

Cont. Furo: 2148-PM-195-MG

Cont. Furo: 2148-PM-195-MG								
PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
46,0 a 47,0	14890/75	1,6						
47,0 a 48,0	14891	2,1						
48,0 a 49,0	14892	1,8						
49,0 a 50,15	14893	2,7						

COMPANHIA DE PESQUISA DE RECURSOS MINERAIS
SUPERINTENDÊNCIA REGIONAL DE BELO HORIZONTE

PROJETO PATOS DE MINAS

BOLETIM DE ANÁLISE

LABORATÓRIO: SECLAB

TIPO DE ANÁLISE: ESPECTROGRÁFICA

FURO DE SONDA: 2148-PM-196-MG

OBSERVAÇÃO:

PROFUNDIDADE (m)	Nº DE LAB.	ELEMENTOS DOSADOS (%)						SOL. CÍTRICA A 2%
		P ₂ O ₅	CaO	Al ₂ O ₃	Fe ₂ O ₃	F	CO ₂	
0,0 a 1,0	14898/75	16,5						
1,0 a 2,0	14899	17,5						
2,0 a 3,0	14900	15,6						
3,0 a 4,0	14901	11,8						
4,0 a 5,0	14902	13,4						
5,0 a 6,0	14903	11,5						
6,0 a 7,0	14904	9,8						
7,0 a 8,0	14905	6,3						
8,0 a 9,0	14906	3,6						
9,0 a 10,0	14907	5,5						
10,0 a 11,0	14908	2,9						
11,0 a 12,0	14909	2,4						
12,0 a 13,0	14910	2,2						
13,0 a 14,0	14911	1,6						
14,0 a 15,0	14912	1,9						
15,0 a 16,0	14913	2,6						
16,0 a 17,0	14914	1,9						
17,0 a 18,0	14915	1,5						
18,0 a 19,40	14916	0,8						