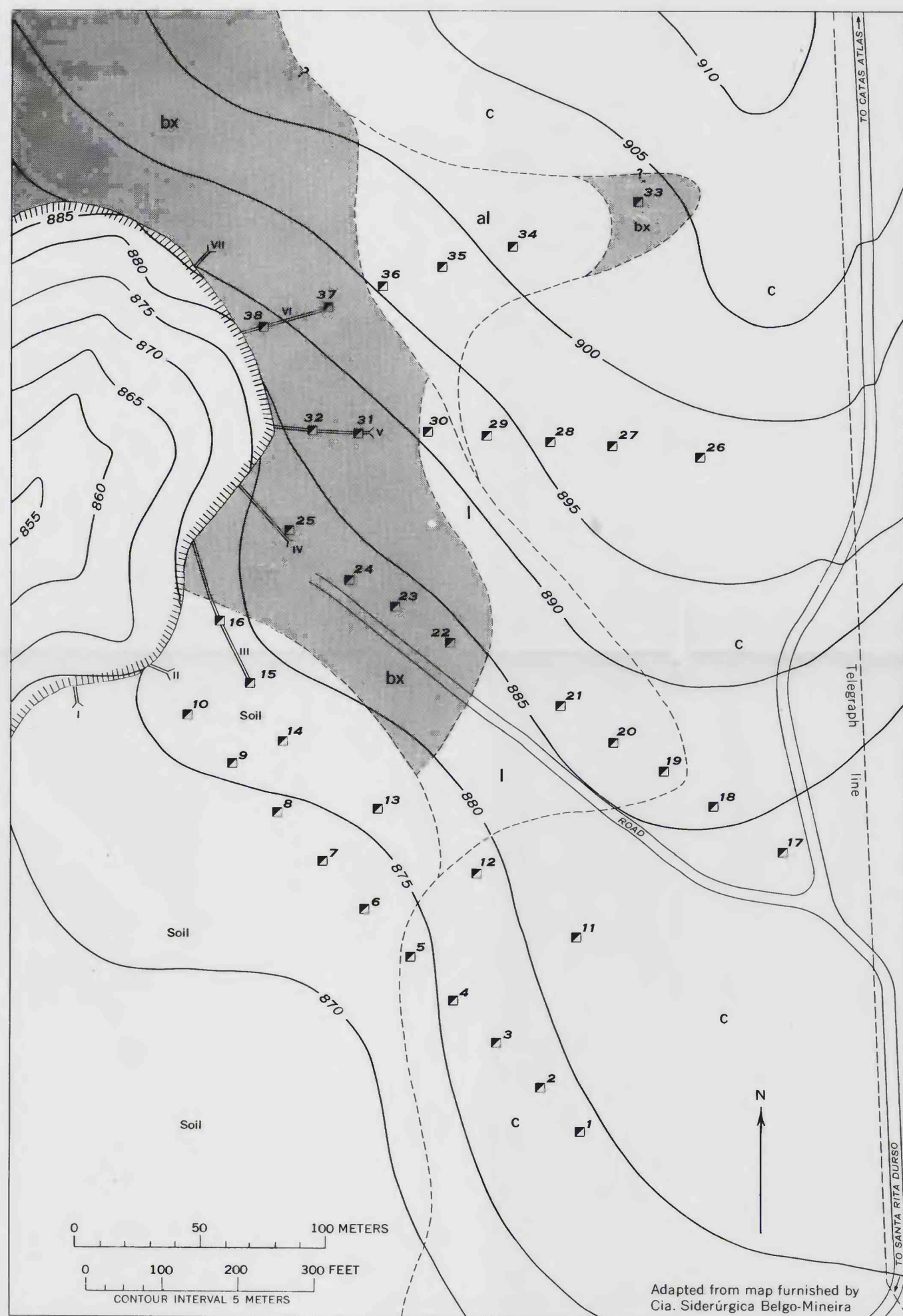


Adapted from diagrams furnished by
Cia. Siderúrgica Belgo-Mineira



EXPLANATION

- al
Alluvium
- c
Canga
- bx
Bauxite
- I
Laterite
- s
Saprolite
Shown in section only
- Inferred contact
- v
Trench
- Shaft
- |||||
Scarp

Analyses, in percent, of bauxite and laterite from the Fazendão deposit

[Samples analyzed are channel samples unless otherwise noted. Analyses courtesy of Cia. Siderúrgica Belgo-Mineira]

Anal- ysis	Sample location and description (numbers in parentheses indicate range of depth, in meters)	SiO ₂	Fe	Al ₂ O ₃	Loss on ignition	Anal- ysis	Sample location and description (numbers in parentheses indicate range of depth, in meters)	SiO ₂	Fe	Al ₂ O ₃	Loss on ignition
<i>Trenches</i>											
1	I, (2-3)	2.30	32.44	31.62	19.00	32	16, (4-5)	2.82	26.39	37.17	21.30
2	I, (3-4)	2.50	31.89	32.40	18.90	33	20, (0-2.3)	3.20	34.62	29.00	17.50
3	II, (4-5)	2.00	29.14	35.34	20.60	34	21, average, clay at bottom	3.00	43.43	21.10	14.20
4	III, (0-1)	1.80	28.04	35.51	21.70	35	21, average of canga cap	3.70	37.11	25.75	17.10
5	III, (1-2)	1.80	24.74	38.23	23.20	36	22, (0-0.5)	1.50	24.10	38.60	24.20
6	III, (2-3)	2.40	24.19	38.41	23.10	37	22, (0.5-1.0)	1.70	26.04	36.47	22.60
7	III, (3-4)	2.85	24.74	37.63	24.20	38	22, (1.0-1.5)	1.50	23.64	40.70	23.00
8	III, (4-5)	2.60	21.99	41.16	22.20	39	22, (1.5-2.0)	1.80	27.49	36.30	21.40
9	III, (5-6)	2.50	31.33	28.20	21.80	40	22, (2.0-2.5)	1.80	26.39	38.87	21.60
10	V, (2.5-3)	1.88	19.24	45.29	25.00	41	22, (2.5-3.0)	1.90	28.59	35.12	20.80
11	V, (3-3.5)	2.14	23.08	41.00	23.78	42	22, (3.0-3.5)	2.00	29.69	33.55	20.10
12	V, (3.5-4.5)	1.86	21.44	43.64	23.28	43	22, (3.5-4.0)	3.00	29.12	34.57	19.90
13	V, (4-4.5)	2.14	23.08	40.50	23.44	44	23, (0-1.12)	1.30	20.34	43.92	25.00
14	V, (4.5-5)	1.96	23.64	40.50	22.86	45	23, (1.12-2.0)	1.40	24.40	40.11	23.10
15	V, (5-5.5)	2.50	24.74	39.13	22.00	46	23, average of grab samples of ore	1.40	21.44	43.35	24.10
16	VI, average composite samples	1.60	18.33	47.30	24.50	47	24, (0-1.45)	1.90	23.64	39.70	23.70
17	VII, average below canga	3.80	26.39	36.27	21.00	48	24, (1.45-2.80)	1.60	21.43	42.45	24.50
<i>Shafts</i>											
18	1, average of 1st layer	13.20	28.23	25.57	18.90	51	33, (2-4)	3.40	44.53	20.33	13.40
19	2 and 3, average of 2d layer	44.00	4.98	36.18	13.00	52	34, (1.4-2.9)	3.00	36.84	26.33	17.10
20	3, average of 1st layer	16.60	22.69	32.17	18.80	53	35, average grab	5.70	32.99	27.43	18.40
21	4, average of 1st layer	15.40	26.00	28.83	19.00	54	37, (0-1)	1.50	18.69	45.27	26.10
22	8, (1.7-2.7)	3.00	34.09	29.26	18.00	55	37, (1-2)	2.00	20.89	43.03	24.40
23	9, grab sample	21.76	15.80	37.80	18.00	56	37, (2-3)	3.60	22.54	40.67	22.50
24	9, grab sample	22.50	16.65	35.10	18.20	57	37, (3-4)	3.20	24.74	38.73	21.80
25	10, (0-2) (canga)	5.90	47.28	14.40	12.40	58	38, (0-0.5)	1.40	18.14	45.56	26.20
26	10, average below canga	2.50	31.89	32.40	19.00	59	38, (0.5-1)	1.50	18.14	46.36	26.20
27	15, (2-3)	3.50	31.33	31.20	18.90	60	38, (1-1.5)	1.20	19.79	45.40	25.20
28	15, (3-4)	2.30	28.05	34.90	21.20	61	38, (1.5-2)	1.50	19.24	45.50	24.90
29	15, (4-5)	2.50	29.69	32.55	21.00	62	38, (2-2.5)	2.00	21.44	42.84	23.70
30	16, (2-3)	3.52	25.29	37.84	21.50	63	38, (2.5-3)	2.20	20.89	43.63	23.50
31	16, (3-4)	4.08	25.84	36.36	21.90	64	38, (3-3.5)	2.60	21.44	43.34	23.20

MAP, CROSS SECTIONS, AND ANALYSES
OF PART OF THE FAZENDÃO BAUXITE DEPOSITS,
MINAS GERAIS, BRAZIL