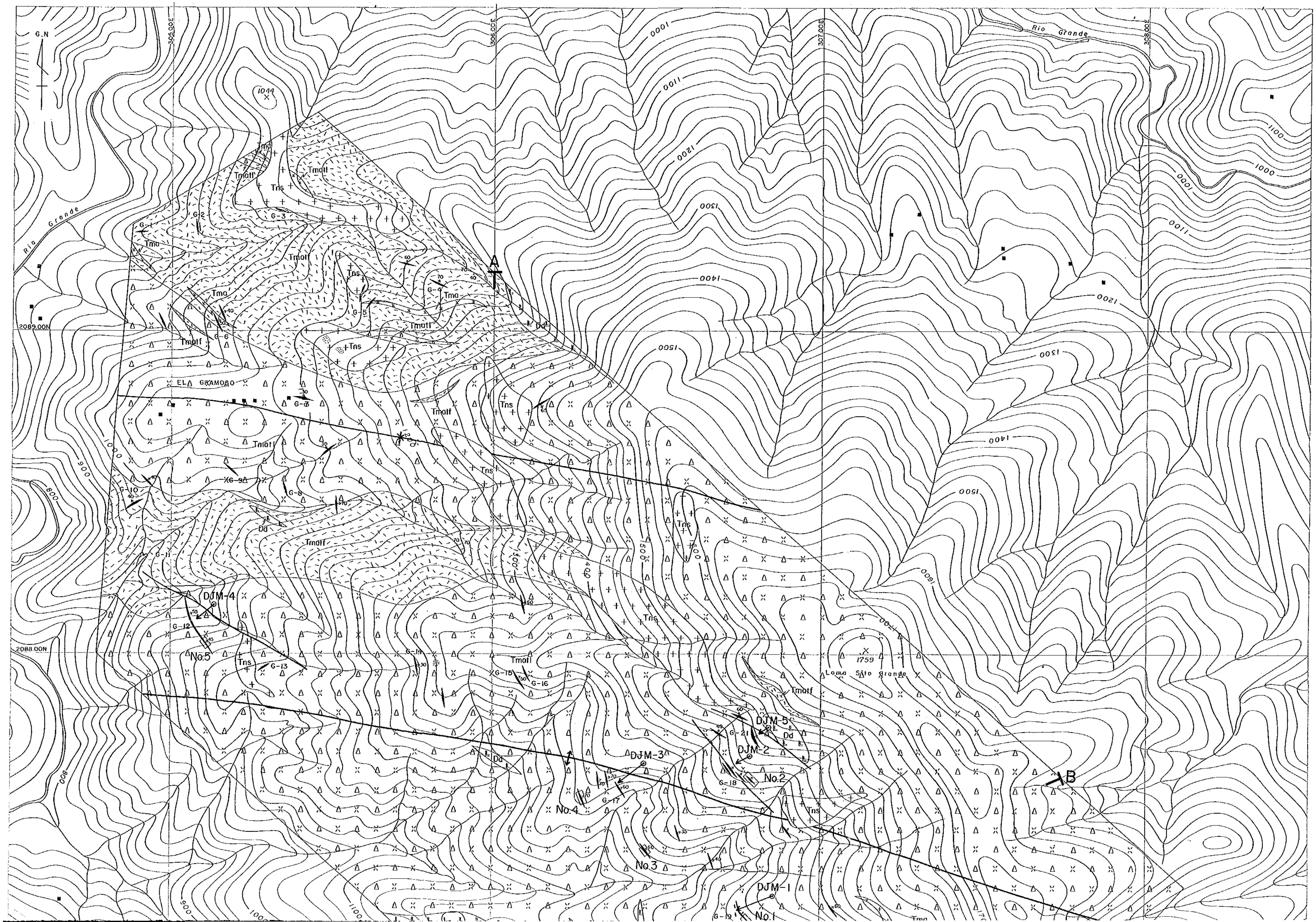
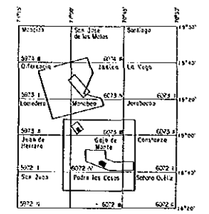

G.N
305.00E
306.00E
307.00E
308.00E
2089.00N
2088.00N
Rio Grande
1044
1000
1100
1200
1300
1400
1500
1600
1700
900
800
1759
Loma Sitio Grande
EL GRAMOSO
A
B
Tma
Tmatf
Tmatl
Tns
Dd
G-1
G-2
G-3
G-4
G-5
G-6
G-8
G-9
G-10
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
G-19
G-21
DJM-1
DJM-2
DJM-3
DJM-4
DJM-5
No.1
No.2
No.3
No.4
No.5

GEOLOGICAL SURVEY
OF
LAS CANITAS AREA, DOMINICA
PHASE Ⅲ

Geological Map of the Constanza Area

LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1:5,000

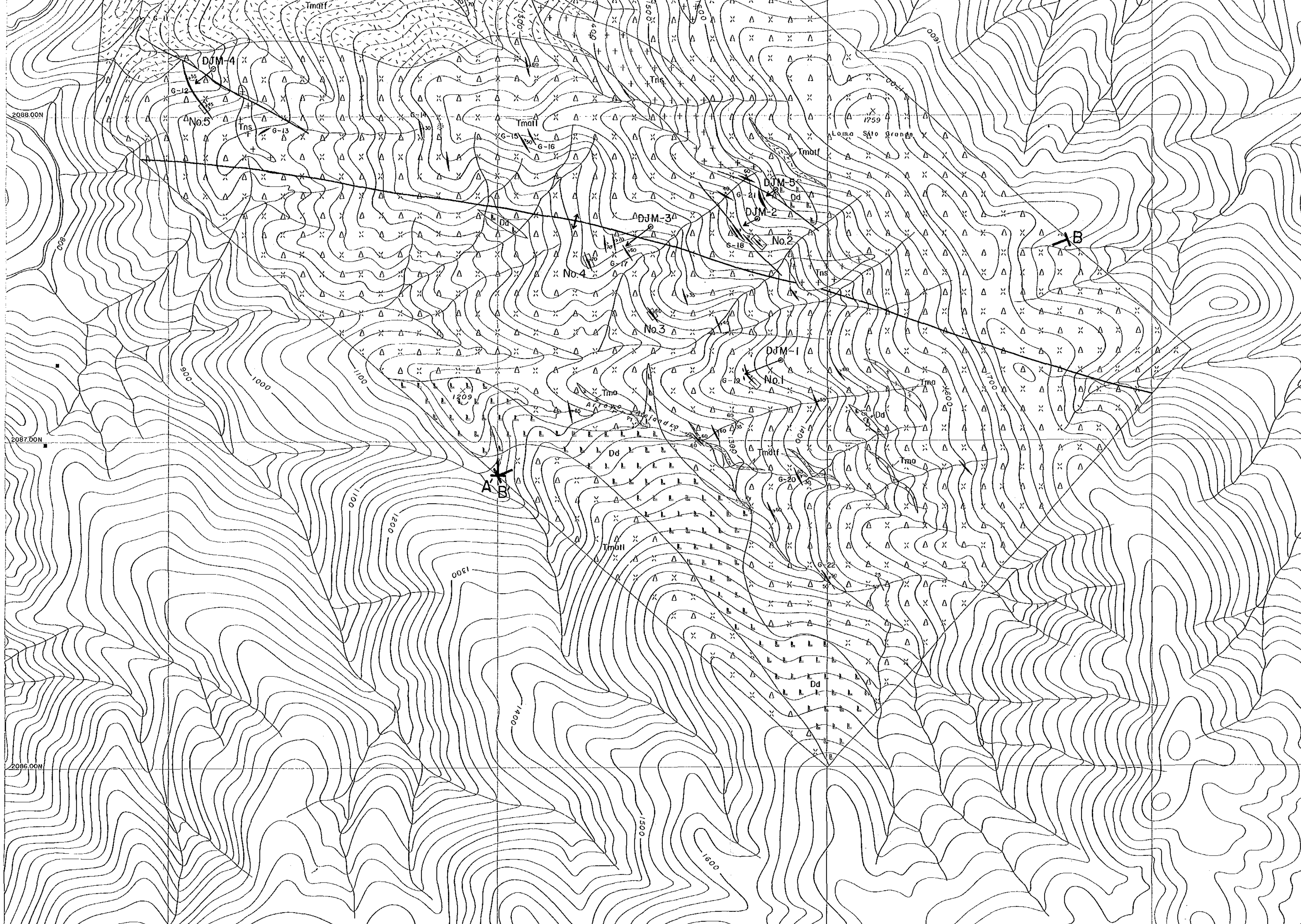
0 500m

LEGEND

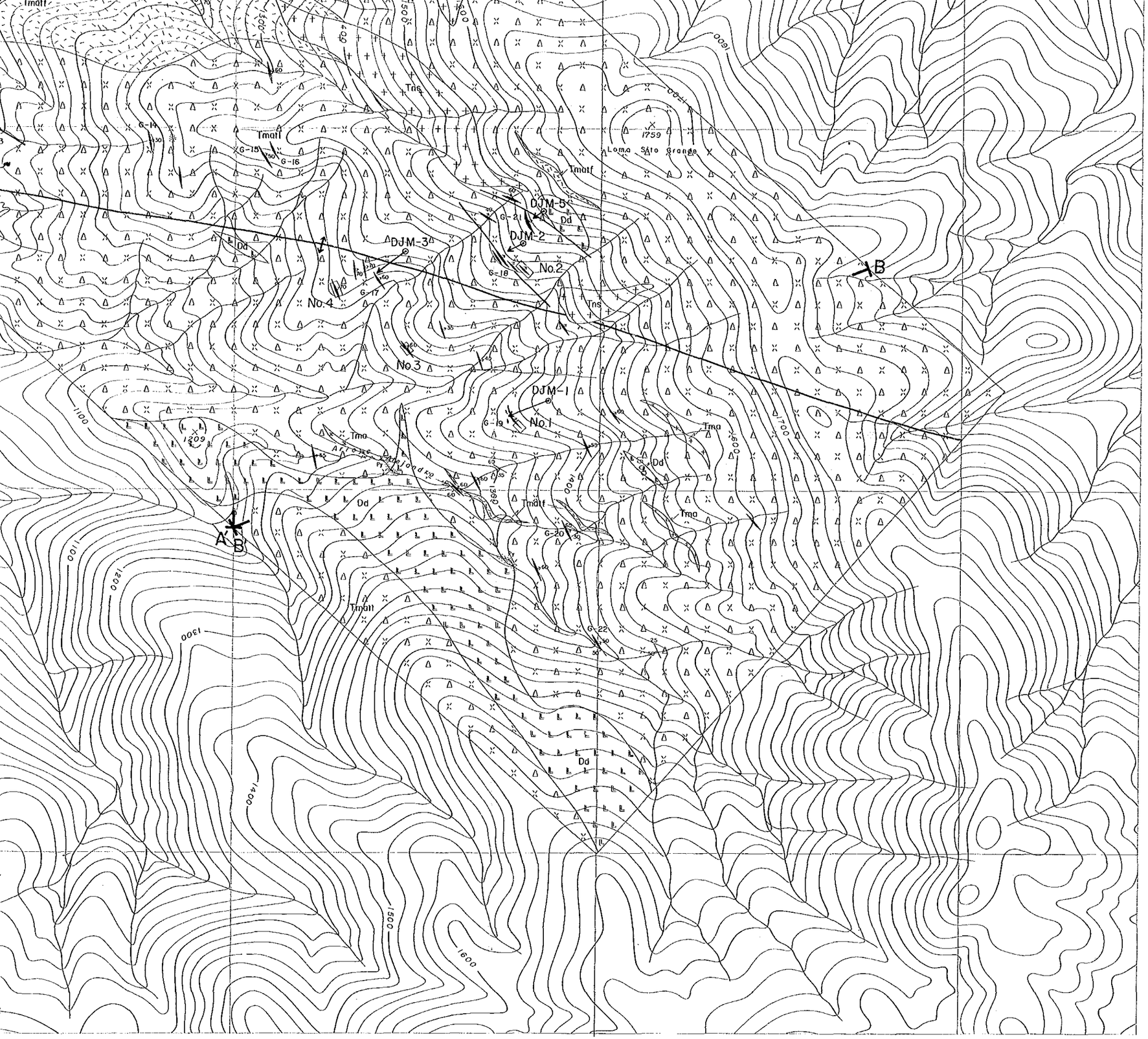
TIREO MIDDLE Mem.
- Tma — Andesite lava
- Tmatf — Andesitic fine tuff
- Tmatl — Andesitic tapilli tuff ~ coarse tuff

INTRUSIVE ROCKS
- Tns — Tonalite stock & dyke
- Dd — Dacite

- 55 — Strike & dip of Cu vein
- Py — Py disseminated zone
- Synclinal axis
- Anticlinal axis
- A — A' Section line
- Drilling point
- Trench survey



DJM-1
DJM-2
DJM-3
DJM-4
DJM-5
No.1
No.2
No.3
No.4
No.5
Tmatf
Tmatl
Tns
Tma
Dd
G-11
G-12
G-13
G-14
G-15
G-16
G-17
G-18
G-19
G-20
G-21
G-22
2088.00N
2087.00N
2086.00N
1759
1309
800
900
1000
1100
1200
1300
1400
1500
1600
1700
A
B



TIREO MIDD. Mem.

- Tmatf — Andesitic fine tuff
- Tmatl — Andesitic lapilli tuff ~ coarse tuff

INTRUSIVE ROCKS

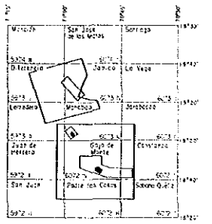
- Tns — Tonalite stock a dyke
- Dd — Dacite

- Py — Py dissemineted zone
- Synclinal axis
- Anticlinal axis
- A|- -|A' Section line
- Drilling point
- Trench survey

GEOLOGICAL SURVEY OF LAS CANITAS AREA, DOMINICA PHASE III

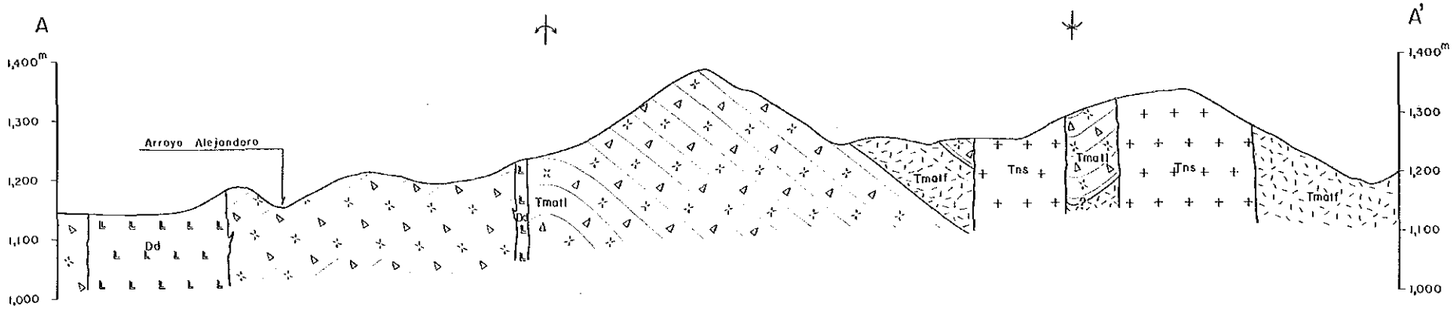
Geological Section of the Constanza Area

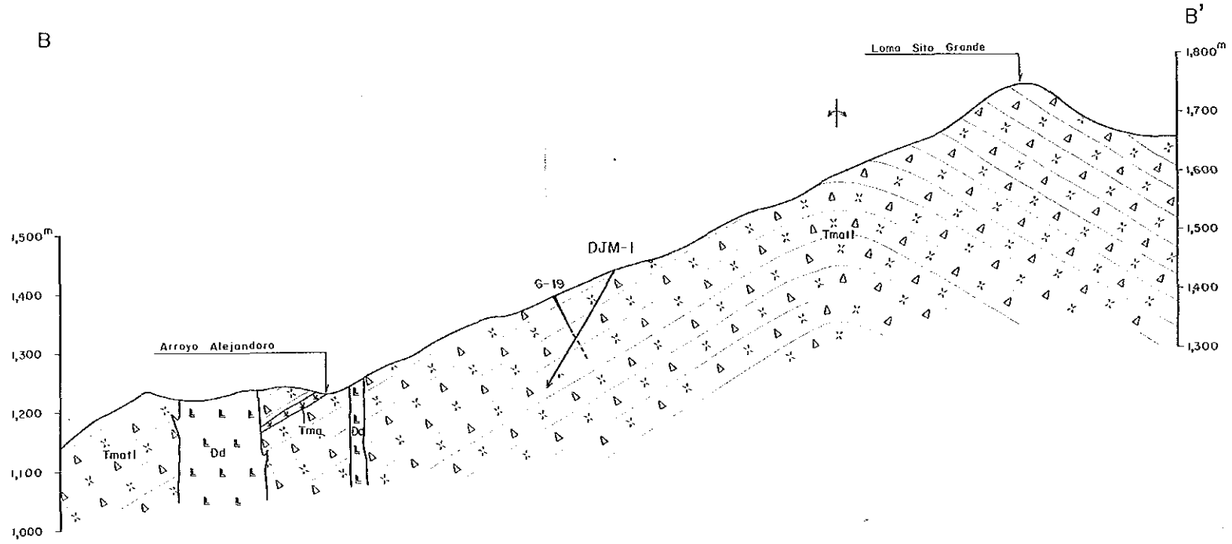
LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986





Scale 1:5,000

0 500m

LEGEND

TIREO MIDDLE Mem.

- Tma — Andesite lava
- Tmatf — Andesitic fine tuff
- Tmatl — Andesitic lapilli tuff ~ coarse tuff

INTRUSIVE ROCKS

- Tns — Tonalite stock & dyke
- Dd — Dacite

- Strike & dip of Cu vein
- Py — Py dissemineted zone
- Synclinal axis
- Anticlinal axis
- A — A' Section line
- Drilling point
- Trench survey

G.N

Rio Grande

Rio Grande

1044

GL022,T

GL020,X

GP012,X

GL024,MA,X

GP020,MA,X

EL GRAMOSO

GK007,MA,P

GP018,MA,X,P

GK009,T,X

GK008,T,X

GP009,X

GP006,X

GR011,X

GP019,T,X

GP007,MA,X

GP004,T,X

GP017,MA,X

GL023,X,MA

GK051,053,054,058,057,058,059,060,061,MA
GK050,052,056,061,062,X
GK058,060,P

1759

Loma Sito Grande

GL013,MA,X

GL011,T,X

GK087,091,X
GK085,086,087,088,089,090,MA

GL014,T,X

GK048,049,X
GK043,047,477
GK042,043,044,045,046,047,096,097,098,MA

GP016,MA,X

GK092,093,094,MA

GK039,MA
GK040,041,X

GK004,MA

GK031,032,P
GK031-1,033,037,071,037,081,X
GK030,031,032,034,036,038
069,070,071,076,077,078,079,080,MA

GK001,X

GK005,T,X

GL016,MA,T,P

GL017,MA,X

GK096,MA,X

GK065,066,X
GK064,067,MA

GL001,X

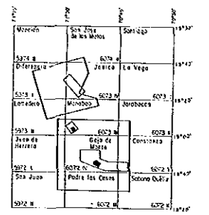
GL007,X

1000
1100
1200
1300
1400
1500
1600
900
800

GEOLOGICAL SURVEY
OF
LAS CANITAS AREA, DOMINICA
PHASE Ⅲ

Location Map of Tested Sample of the Constanza Area

LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1 : 5,000

0 500m

LEGEND

X——SK001 Sample No.

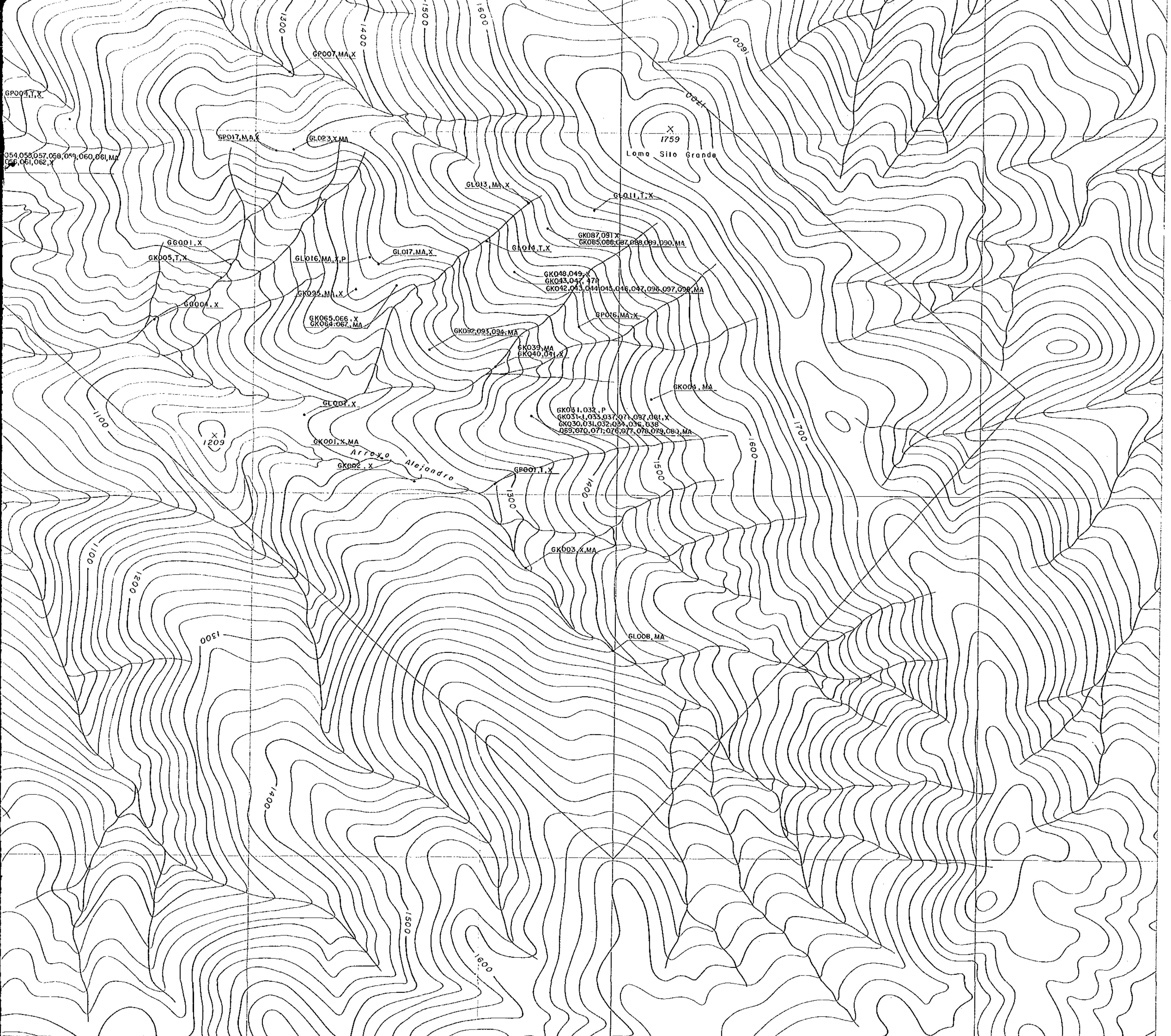
MA ------ Ore analysis

T ------ Thin section

P ------ Polished section

X ------ X-ray analysis

GP007,MA,X
GP004,T,X
GP017,MA,X
GL023,X,MA
GK051,053,054,058,057,058,059,060,061,MA
GK050,052,056,061,062,X
GK058,060,P
1759
Loma Silo Grande
GL013,MA,X
GL011,T,X
GK087,091,X
GK085,086,087,088,089,090,MA
GL019,T,X
GG001,X
GK005,T,X
GL016,MA,P
GL017,MA,X
GK048,049,X
GK033,047,178
GK042,043,044,045,046,047,096,097,098,MA
GK096,MA,X
GG004,X
GK065,066,X
GK064,067,MA
GP016,MA,X
GK092,093,094,MA
GK039,MA
GK040,091,X
GK004,MA
GL001,X
GK031,032,P
GK031,033,037,071,037,081,X
GK030,031,032,034,036,038
069,070,071,076,077,078,079,081,MA
1209
GK001,X,MA
Arroyo Alejandro
GK002,X
GP001,T,X
GK003,X,MA
GL008,MA
900
1000
1100
1200
1300
1400
1500
1600
1700



T ------ Thin section

P ------ Polished section

X ------ X-ray analysis

DRILLING LOG DJM- I
CONSTANZA SUB AREA

Coordinate : N 2087.25, E 306.85
Elevation : +1,435m

Direction : S70°W
Inclination : -60°
Total depth : 250.20m

Depth (m)	Str.	Description	Alt.	Ore	CL.	Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
0		andesitic lapilli tuff, accidental, massive, light green, sub-angular frag. of Ad and Da, ø 5~20mm								
8.00		alternation of andesitic coarse tuff and fine tuff, green essential, sorted								
10.60–11.50	45°	fine veinlets of Q-Ep veins vw 0.1~0.5cm	Ep							
17.00		andesitic coarse tuff, essential, green,								
		andesitic lapilli tuff, essential, sub-angular frag of Ad, ø 5~20mm,								
23.00–23.15	30°	andesitic coarse tuff, essential, green, well-sorted, Q thin vein			1					
33.50		andesitic lapilli tuff, accidental, sub-angular frag. of Ad and Da,								
35.30		andesitic coarse tuff, essential, sorted								
37.60		andesitic fine tuff, essential, containing many pisolites								
41.10		andesitic coarse tuff, essential,								
42.10		andesitic fine tuff, essental,								
43.50		Ep vein			5	tr.	tr.	0.17	0.02	0.01
44.50		porous silica sinter vein, containing black material,			2					
		weakly hematitized	Hm							
48.20		alteration of andesitic coarse tuff and fine tuff, essential, containing pisolites partly hematitized, epidotized, silicified								
55.30–55.90	30°	strongly epidotized and silicified, Q thin vein	Hm Ep Si		0.5					
58.80	60°	Q thin vein			1					
60.60–61.10	30°	strongly epidotized, Q thin vein	Ep		0.5					
		andesitic coarse tuff, essential,								
66.05–66.35		strongly epidotized	Ep							
69.00		andesitic lapilli tuff, accidental, massive, green-brown sub-angular frag. of Ad and Da, ø 5~15mm, containing mud material,								
77.50		andesitic tuff breccia, accidental, massive, green, sub-angular frag. of Ad and Da, ø 5~40mm								
81.70	60°	Ep vein			3					
83.25	50°	Ep vein			1					
95.00–95.30	30°	Q vein			1					
		andesitic lapilli tuff, accidental, massive, green, sub-angular frag. of Ad and Da, ø 5~15mm								

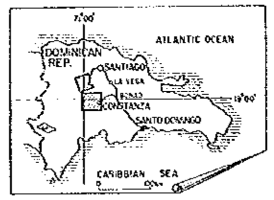
Depth (m)	Str.	Description	Alt.	Ore	CL.	Au (g/T)	Ag (g/T)	Cu (g/T)	Pb (g/T)	Zn (g/T)
100.60	30°	Q-Ca-Ep vein	Ep							
105.20	20 / 60°	Q-Ca vein			20					
105.90	60°	Q-Ca vein			4					
106.85		Q-Ca vein			2					
117.00	80	Q-Ca vein	Ep		3					
117.40	60°	Ep vein			0.5					
122.00		andesitic coarse tuff, essential, sorted,	Ep							
124.70		andesitic lappilli tuff, accidental,								
125.00–125.55	70°	Q-Ca network vein zone	Si		55	tr.	tr.	0.05	0.02	0.01
126.30	70°	Q-Ca-Ep vein	Ep Si		5					
128.50	70°	Ep-Q vein			4					
131.40	80°	Q-Ep vein			3					
132.45–132.65	90°	Mal-Cp-Q-Ep network vein —132.70m—(X) (P)	Ch Si	Cu	20	0.10	2.0	0.35	0.02	0.05
132.75		andesitic fine tuff, essential, intercalated with coarse tuff, containing pisolites		Cu	5	tr.	1.9	0.35	0.02	0.03
		andesitic coarse tuff, accidental, massive, light green, sorted,								
143.60	80	Ep-Q-Ca vein	Ep Si		4	tr.	0.2	0.04	0.02	0.01
147.20		andesitic lapilli tuff, accidental, massive, sub-angular frag								
150.30		andesitic coarse tuff, accidental, sorted,								
151.60		andesitic fine tuff, essential containing pisolites partly hematitized	Hm							
159.30	45°	Cp-Py-Ep-Q vein	Ep Si	Cu	10	tr.	1.5	0.31	0.02	0.83
163.70		andesitic coarse tuff, accidental, sorted, massive, green								
165.30	50°	Q-Ca vein			2					
168.30	45°	Q-Ca veinlets			1+1+2	tr.	tr.	0.06	0.03	0.03
168.80	45°	Py-Q-Ca vein		Py	1+4					
177.75	30°	Q vein			1					
183.25		Q-Ca veinlets			3+1					
185.70		andesitic fine tuff, essential, massive, green, sorted, containing pisolites,								
191.30	45°	Ep-Q vein —191.40m—(X)			10	tr.	1.1	0.06	0.02	0.02
191.85	40°	Ep-Q veins			3+4					
192.30	40°	Cp-Py-Ep-Q vein		Cu	10	tr.	tr.	0.20	0.02	0.01
194.30	35°	Q-Ep-Ca vein			5					
195.65		Q-Ca veinlets zone			40					
198.70		andesitic coarse tuff, accidental, massive, green, compact								

Depth (m)	Str.	Description	Alt.	Ore	CL.	Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
200		andesitic coarse tuff, accidental, massive, light green, sorted,								
202.40	45°	Q-Ca vein			5					
207.60	45°	Q-Ca vein			2					
208.00	70°	Ep-Q veins			1+3					
209.50	70°	Ep-Q vein			4					
212.00	50°	Ep-Q vein			5					
212.10	45°	Ep-Q vein			6					
212.50		andesitic lapilli tuff, accidental, massive, light green, sub-angular frag. of Ad and Da								
216.00		andesitic fine tuff, essential, massive, green, sorted,								
221.00	70°	Ep-Q veins			2+2					
222.25	60°	Ep-Q vein			4					
222.70	70°	Q-Ca vein			10	tr.	tr.	0.08	0.02	0.01
223.50	45°	Q-Ca vein			2					
224.40	50°	Ep-Q vein			3					
225.60		andesitic coarse tuff, accidental, green, sorted,								
229.75	60°	Cp-Py-Ep-Q vein		Cu	5			0.3		
230.75	60°	Cp-Py-Ep-Q veinlets —230.85m—(X) 231.00—(P)		Cu	30	tr.	1.3	0.24	0.02	0.01
231.60		andesitic lapilli tuff, accidental								
233.50	70°	Hm-Ep-Q vein			5					
233.90	70°	Ep-Q vein			4					
		andesitic fine tuff, essential, green, sorted, containing pisolite,	Hm							
240.70		—240.70m—(X) strongly hematitized, Py spots	Hm							
242.30–242.60	50°	Hem-Py-Q vein		Py	30	tr.	tr.	0.06	0.02	0.01
		andesitic coarse tuff, accidental, green, massive								
245.50–246.30		Q network-vein zone	Ch		80	tr.	tr.	0.04	0.02	0.01
247.20		Q-Ca network vein zone	Hm		10					
247.95		Q-Ca network vein			10	0.10	8.3	0.03	0.02	0.01
248.60		Q-Ca network vein —247.50m—(X)			10					
250.20		250.20m								

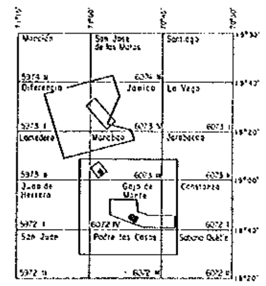
PL. 5

GEOLOGICAL SURVEY
OF
LAS CANITAS AREA, DOMINICA
PHASE III

Drilling Log of DJM- I



LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1:200

0 — 20m

LEGEND

Col.	Columnar	Str.	Structure
Alt.	Alteration	CL.	Core length
Cp	Chalcopyrite	Py	Pyrite
Mal	Malachite	Sph	Sphalerite
Hm	Hematite, Hematitization	Lm	Limonite, Limonitization
Q	Quartz	Ep	Epidote, Epidotization
Ca	Calcite	V	Vein
Ch	Chlorite, Chloritization	Si	Silicification

DRILLING LOG
CONSTANZA SUB AREA

DJM-2

Coordinate : N 2087.68
E 306.78
Elevation : +1,530m

Direction : S65°W
Inclination : −70°
Total depth : 150.50m

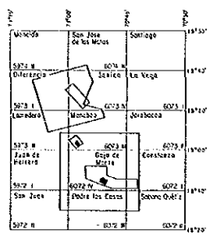
Depth (m)	Col.	Str.	Description	Alt.	Ore	CL.	Analysis Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
0			andesitic tapilli tuff, accidental, strongly weathered, reddish,								
4.00			andesitic fine tuff, essential, dark green, containing pisolites,								
10											
10.60			Ep veinlets in hematitized rock,	Hm		0.5					
11.70			Ep irregular vein			1					
16.20			alternation of andesitic coarse tuff and tapilli tuff, accidental, green, massive,								
20											
20.30			epidotized zone w=0.0m								
25.70			andesitic tapilli tuff, accidental, massive, sub-angular frag of Ad and Da, φ 2 ~ 20mm								
30											
32.70			Ep-Q vein	Ep		10	tr.	tr	0.01	0.02	0.01
40											
40.60			Ep vein	Ep		1					
43.50			Ep-Ca vein			1					
45.50			Ep-Q vein			7					
50											
50.15			Ep-irregular vein			10	tr.	tr.	0.04	0.02	0.03
			52.00 ~ 77.00								
			many Ep scats are contained								
54.50			Ep vein			1					
56.00			Ca-Q thin network-vein zone			20					
60											
64.35			Ep veins			1+5					
65.60			Ep veins			2+1+1					
67.85			Ep vein			2					
70											
72.55			Ep-veins —72.70— (X)			20	tr	tr	0.03	0.02	0.00
73.55			Ep-Q vein			10	tr.	tr.	0.03	0.03	0.00
74.50			Ep vein			10	tr.	tr.	0.04	0.04	0.00
76.00			Ca-Q irregular network vein zone			40	tr.	tr	0.05	0.02	0.00
76.45											
80											
81.40			ronalite, grey, siliceous fine-grained,	Si							
83.20			andesitic fine tuff, essential,								
84.50			Cp-Py-Q veins	Ch	Cu	30					
			wholly chloritized								
87.50			Cp-Py-Q veins		Cu	15	0.20	30.3	3.76	0.02	0.02
88.65			Cp-Py-Q network-vein —88.30— (X)		Cu	15	0.10	20.1	2.65	0.02	0.01
89.55			Cp-Py-Q veins		Cu	15	tr	1.9	0.40	0.02	0.03
90			Cp-Py-Q veins		Cu	15	0.10	11.7	2.91	0.02	0.03
91.35			Cp-Py-Q veins —90.50— (P)		Cu	35	0.20	16.4	2.37	0.02	0.05
92.30			Cp-Py-Q veins		Cu	35	0.10	9.1	1.78	0.01	0.01
93.50			andesitic tapilli tuff, accidental, chloritized								
95.00			andesitic coarse tuff, accidental,								
95.50			andesitic fine tuff, essential,								
			Cp-Py-Q veinlets		Cu	10	tr	1.7	0.41	0.03	0.01
99.40											
100			Cp-Py-Q veins		Cu	20	0.20	12.0	1.97	0.02	0.02
100			Cp-Py-Q vein	Ch	Cu	5	0.30	23.2	3.19	0.01	0.02
101.00			Cp-Py-Q vein		Cu	10	0.10	7.9	1.38	0.02	0.05
101.50			Cp-Py-Q network zone		Cu	20	tr	8.4	0.97	0.02	0.02
103.10			—10330— (X)								
104.05			Cp-Py-Q network vein —10340— (P)		Cu	85	0.2	22.3	2.71	0.02	0.73
			andesitic tapilli tuff, accidental, sub-angular frag of Ad and Da, φ 2 ~ 15mm partly hematitized, epidotized	Ep Hm							
110			andesitic coarse tuff, accidental, weakly epidotized								
118.90			andesitic fine tuff, essential yellowish grey, massive, sorted weakey altered,								
120											
130											
131.00			andesitic coarse tuff, accidental, sub-angular frag.								
132.60			andesinic fine tuff, essential, sorted, massive, light green-grey, weakey altered, containing pisolite								
140											
143.20			andesitic coarse tuff, accidental, massive, grey, weakly altered,								
145.50			andesitic tapilli tuff, accidental, sub-angular frag of Ad and Da, massive,								
150			150.50								
160											
170											
180											
190											
200											

PL. 6

GEOLOGICAL SURVEY
OF
LAS CANITAS AREA, DOMINICA
PHASE Ⅲ

Drilling Log of DJM-2

LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1:200

0 — 20 m

LEGEND

Col. : Columnar		Str. : Structure	
Alt. : Alteration		CL. : Core length	
Cp : Chalcopyrite		Py : Pyrite	
Mal : Malachite		Sph : Sphalerite	
Hm : Hematite, Hematitization		Lm : Limonite, Limonitization	
Q : Quartz		Ep : Epidote, Epidotization	
Ca : Calcite		V : Vein	
Ch : Chlorite, Chloritization		Si : Silicification	

DRILLING LOG — DJM-3
CONSTANZA SUB AREA

Coordinate: N 2087.66, E 306.46
Elevation: +1,370m

Direction: S55°W
Inclination: −70°
Total depth: 250.40m

Depth (m)	Str.	Description	Alt.	Ore	CL.	Au (9/T)	Ag (9/T)	Cu (%)	Pb (%)	Zn (%)
0 – 5.60		andesitic lapilli tuff, accidental frag. of Ad and Da, green, massive, compact								
5.60 – 28.00		andesitic coarse tuff, accidental, intercalated with thin layer of andesitic lapilli tuff, green, massive, compact; containing many pisolites,								
28.00 – 41.00		andesitic fine tuff, essential, green, massive, compact, containing pisolites, intercalated with thin layer of andesitic coarse tuff,								
35.10	45°	Cp-Py-Q vein		Cu	3	tr.	2.1	0.15	0.01	0.01
36.70		Q-Ep vein			5					
41.00 – 67.85		andesitic coarse ~ medium tuff, light green, massive, intercalated with layer of andesitic lapilli tuff,								
51.65	60°	Q-Ca-Ep vein			1					
52.05	60°	Q-Ca-Ep vein			1					
58.90	60°	Q-Ca veins			2+2					
65.80	70°	Cp-Py-Q-Ca-Ep vein —65.75m— (X)	Si	Cu	105	tr.	25	0.40	0.02	0.06
66.85		fault zone, containing Cp-Py-Q-Ca vein		Cu	20					
67.85 – 100		andesitic lapilli tuff, accidental, sub-angular frag. of Ad and Da, ∅5 ~ 15mm green, massive, compact,								
71.00	35°	Q-Ep-Ca vein			3					
71.30	45°	Q-Ep-Ca veins			2+1					
77.30	30°	Q-Ca vein			1					
80.60		Ep-Q-Hm-Ca veins			2+3					
84.90		Cp-Py-Q-Ep Ca vein	Hm Ch	Cu	25					
93.50 – 94.50		Py impregneted	Ep	Py Py	1 1					
97.75	45°	Q-Ep vein			15					

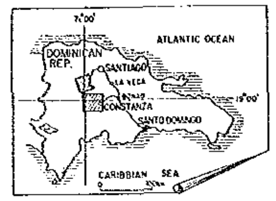
Depth (m)	Str.	Description	Alt.	Ore	CL.	Au (9/T)	Ag (9/T)	Cu (9/T)	Pb (9/T)	Zn (9/T)
106.25	80°	Ep-Py vein	Ep Hm	Py	10					
113.30	45°	Cp-Py-Ep-Q vein		Cu	10	tr.	1.1	0.29	0.01	0.01
119.75	60°	Ep-Hm-Q veins	Ch		20					
120.10	70°	Ep-Hm-Q vein			40					
		strongly epidotized zone	Ep Hm							
128.45	45°	Ep-Q vein	Hm		2					
129.85	60°	Ep-Q vein			2					
133.30 – 147.55		andesitic fine tuff, essential green, compact, intercalated with thin layer of coarse tuff,								
135.35	60°	Q vein			1					
136.00	60°	Q vein			1+2					
136.80 – 136.95	60°	Q vein			1					
138.65	30°	Q vein	Ep Ch		2					
139.15	35°	Cp-Py-Q vein	Hm	Cu	5	0.10	4.3	0.93	0.02	0.01
147.00		Ep-Q-Ca vein	Ch		4					
147.10		Cp-Py Ep-Q-Ca-vein		Cu	3					
147.55 – 186.50		andesitic lapilli tuff, accidental sub-angular frag of Ad and Da, ∅5 ~ 20mm, green, massive, compact,								
154.10	45°	Ep-Hm-Q vein	Ch		7					
		—154.60m— (X)								
155.55	30°	Cp-Py-Ep-Hm vein	Hm	Cu	3	tr.	0.8	0.29	0.02	0.01
159.00	30°	Py-Q-Hm-Ep network vein zone		Py	35					
163.60		Py-Q network vein		Py	5					
165.60		Cp-Py-Q network zone		Cu	40	tr.	tr.	0.07	0.02	0.02
166.75		Py-Q-Ep vein		Py	2					
170.20	45°	Py-Q-Ca-Ep vein		Py	20					
		Q-Ca thin veins								
174.00	45°	Py-Q-Ca-Ep vein		Py	20	tr.	tr.	0.05	0.02	0.03
174.55		andesitic coarse tuff, accidental, green, massive, compact,								
		Q-Ca-Ep veinlets zone	Ch							
183.15	45°	Cp-Py-Q-Ca vein		Cu	25	0.10	3.7	0.75	0.02	0.01
186.20		Py thin veinlets zone		Py	50					
186.50		andesitic lapilli tuff, accidental,								
189.40	45°	Mal-Lm-Py-Q-Ca vein		Cu	30	0.20	4.2	0.59	0.09	0.02
192.30	60°	Cp-Py-Q-Ca thin veinlets zone —192.50m— (X)(P)		Cu	50	tr.	1.4	0.17	0.04	0.05
193.70	60°	Cp-Py-Q-Ca thin veinlets zone —194.60m— (X)		Cu	60	tr.	2.2	0.41	0.02	0.03
197.70	45°	Cp-Py-Q-Ca-Ep vein		Cu	5	tr.	tr.	0.23	0.02	0.01

Depth (m)	Str.	Description	Alt.	Ore	CL.	Au (9/T)	Ag (9/T)	Cu (%)	Pb (%)	Zn (%)
200.30		andesitic tuff breccia, accidental, sub-angular frag of Ad and Da,								
205.25	60°	Cp-Py-Q-Ca-Ep vein		Cu	2					
206.05	45°	Ep-Q-Ca vein			15					
206.50		andesitic lapilli tuff accidental,								
208.40		alternation of andesitic coarse tuff and fine tuff, sorted, green, massive								
217.50		andesitic lapilli tuff, accidental, sub-angular frag. of Ad and Da, ∅5 ~ 15mm								
228.45	45°	Cp-Sph-Py-Q-Ca vein —228.47m— (P)		Cu-Zn	5	tr.	tr.	0.16	0.04	2.09
241.20	45°	Q-Ep-Ca network vein zone			40					
249.20		andesitic fine tuff, essential, sorted, light green,								
250.40		—250.40m—								

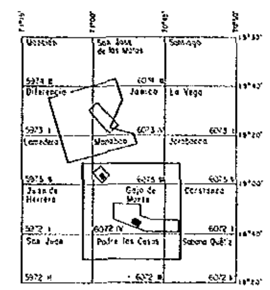
PL. 7

GEOLOGICAL SURVEY OF LAS CANITAS AREA, DOMINICA PHASE III

Drilling Log of DJM−3



LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1:200

0 — 20m

LEGEND

Col.	Columnar	Str.	Structure
Alt.	Alteration	CL.	Core length
Cp	Chalcopyrite	Py	Pyrite
Mal	Malachite	Sph	Sphalerite
Hm	Hematite, Hematitization	Lm	Limonite, Limonitization
Q	Quartz	Ep	Epidote, Epidotization
Ca	Calcite	V	Vein
Ch	Chlorite, Chloritization	Si	Silicification

DRILLING LOG
CONSTANZA SUB AREA

DJM-4

Coordinate : N 2 088.29
E 305.14
Elevation : + 990m

Direction : S50°W
Inclination : -70°
Total depth: 150.40m

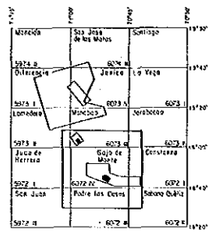
Depth (m)	Col.	Str.	Description	Alt.	Ore	CL.	Analysis Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
0			andesitic lapilli tuff, accidental, sub-angular frag of Ad and Da, ϕ 5~15mm, massive, green partly intercalated with thinlayer of andesitic coarse tuff,								
10											
20											
30											
40											
43.00		35°	Q-Cu-Ep vein								
49.80		60°	Q-Ep veins			1+1					
50											
51.30		60°	Q-Ep veins			1+1					
52.45		60°	Qp-Py-Q-Ep veinlets —52.50— Ⓟ	Ch	Cu	15	01	14	0.74	0.02	0.02
59.30		45°	Q-Ca veinlets								
60			—60.20— Ⓟ Ⓧ								
60.30			Cp-Py-Spc-Q-Ep-Ca veins		Cu	25	040	22.5	5.71	0.04	0.26
61.10			andesitic fine tuff, essential, green, massive, containing pisolites								
65.60			andesitic coarse tuff, accidental massive, green partly intercalated with thin layer of andesitic lapilli tuff,								
70											
71.20		60°	Q-Ca-Ep thin veinlets zone								
			Q-Ca vein			5					
74.00											
74.80			Q-Ca-Ep network veins andesitic fine tuff, essential, massive, green,			20	tr.	tr	0.06	0.03	0.02
78.20			andesitic coarse tuff, accidental, massive green,								
80											
82.50		70°	Q-Ca-Ch vein			3					
82.80			andesitic lapilli tuff, accidental, green, massive,								
90											
90.76		45°	Q-Hm-Ca veins fault zone,			15	tr.	tr.	0.07	0.02	0.01
92.00			Q-Hm-Ch			15					
92.50			Q-Hm-Ca network vein —92.40— Ⓧ	Ch		75	tr.	tr.	0.24	0.02	0.01
93.80			andesitic fine tuff, essential, green, containing pisolite,								
96.30			andesitic coarse tuff								
97.50		45°		Hm							
98.25			Q-Hm-Ca vein			5					
100			andesitic lapilli tuff,								
100											
106.35		50°	Q-Ep-Ca veinlets			15	tr.	tr.	0.06	0.02	0.01
110											
111.30			Q-Ca veinlets	Hm		15					
115.70			strongly hematized Q-Ca veinlets			5					
116.30			andesitic fine tuff, essential, hematitized, containing pisolites, intercalated with thin layes of andesitic coarse tuff and lapilli tuff,	Hm							
120			—122.50— Ⓧ								
			strongly hematitized								
130											
131.75			andesitic coarse tuff, essential, green, massive, intercalated thin layer of andesitic lapilli tuff,								
140											
148.80			andesitic fine tuff, essential, well sorted, green								
150			150.40								
160											
170											
180											
190											
200											

PL. 8

GEOLOGICAL SURVEY
OF
LAS CANITAS AREA, DOMINICA
PHASE III

Drilling Log of DJM-4

LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1:200

0 20 m

LEGEND

Col.	: Columnar	Str.	: Structure
Alt.	: Alteration	CL.	: Core length
Cp	: Chalcopyrite	Py	: Pyrite
Mal	: Malachite	Sph	: Sphalerite
Hm	: Hematite, Hematitization	Lm	: Limonite, Limonitization
Q	: Quartz	Ep	: Epidote, Epidotization
Ca	: Calcite	V	: Vein
Ch	: Chlorite, Chloritization	Si	: Silicification

DRILLING LOG
CONSTANZA SUB AREA

DJM-5

Coordinate : N 2 087.78
E 306.85
Elevation : +1,585m

Direction : S60°W
Inclination : −85°
Total depth : 201.00m

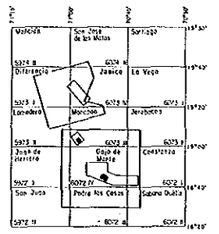
Depth (m)	Col.	Str.	Description	Alt.	Ore	CL.	Analysis Au (g/T)	Ag (g/T)	Cu (%)	Pb (%)	Zn (%)
0			surface soil zone								
10											
13.50			andesitic coarse tuff, accidental	Ep Hm / Si							
20			strongly altered, epidotized and hematitized, weathered, brown								
25.80			dacite whitish grey, altered,	Si							
30											
37.35			fault zone								
38.60			fault clay and breccia contained, strongly silicified rock								
40											
40.30			Lm-Mal-Cp-Py-Q network vein zone in strongly silicified rock —42.50— ⓟ		Cu	520	0.3	13.1	2.74	0.02	0.03
45.70			strongly silicified rock partly containing chloritized zone Lm-Mal-Cp-Py-Q network vein	Ch	Cu	40	0.2	7.8	1.03	0.02	0.02
47.65			strongly silicified rock								
49.00			andesitic coarse tuff origin								
50											
58.60			Lm-Mal-Cp-Py-Q network vein		Cu	240	tr.	1.3	0.43	0.02	0.03
60											
61.20			Lm-Mal-Cp-Py network vein		Cu	40	0.5	25.8	5.41	0.10	0.05
			andesitic coarse tuff, silicified, epidotized,	Ep							
			Ep-Q veinlets zone								
69.60			Py impregnatio	Q	Py	10	tr.	tr.	0.07	0.02	0.01
70			—70.80— ⓠ								
71.40			Py-Cp-Q-Ep network vein		Cu	20	0.10	2.0	0.92	0.02	0.01
72.10			Cp-Py-Q-Ep network vein		Cu	80	tr.	1.1	0.36	0.02	0.02
74.00			andesitic lapilli tuff, accidental, massive, green								
80											
82.30			andesitic medium tuff, essential, massive, green, sorted,								
85.50			andesitic lapilli tuff, accidental, massive, green, subangular frag of Ad and Da, ϕ 5~10mm								
90											
90.60			Q vein.			4					
91.20			Q vein.			3					
93.40			Q-Ep network vein			15					
100											
101.20			andesitic fine tuff, essential, massive, green, sorted,								
103.30			alternation of andesitic coarse tuff and fine tuff								
110											
113.50			andesitic lapilli tuff, accidental, massive, green, sub-angular frag. of Ad and Da ϕ 5~15mm								
120											
121.90			strongly silicified and epidotized zone Cp-Py spotted,	Ep Si	Cu	110	tr.	tr.	0.04	0.02	0.01
122.00			Q-Ca thin veinlets zone								
126.00			alternation of andesitic coarse tuff and fine tuff, massive, green, intercalated with thin layer of andesitic lapilli tuff,								
130											
				Si Ep							
140											
140.40			Q-Ep-Ca network zone Py spotted		Py	30	tr.	tr.	0.04	0.02	0.01
142 Cu			Cp-Py spotted, veins —143.00— ⓞ ⓔ		Cu	100	tr.	1.7	0.32	0.02	0.01
145.00			Q-Ca veinlets zone	Ch Hm							
148.00			andesitic fine tuff, essential, well-sorted, green, massive, containing pisolite, interealated with thin layer of andesitic coarse tuff and tapilli tuff								
150											
160											
170											
170.80			Q-Ca vein			3					
180											
190											
192.00			andesitic coarse tuff, accidental, massive, green								
200											
m 201.00											

PL. 9

GEOLOGICAL SURVEY
OF
LAS CANITAS AREA, DOMINICA
PHASE III

Drilling Log of DJM-5

LOCATION INDEX



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

FEBRUARY 1986

Scale 1:200

0 — 20 m

LEGEND

Col.	: Columnar	Str.	: Structure
Alt.	: Alteration	CL.	: Core length
Cp	: Chalcopyrite	Py	: Pyrite
Mal	: Malachite	Sph	: Sphalerite
Hm	: Hematite, Hematitization	Lm	: Limonite, Limonitization
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Ca	: Calcite	V	: Vein
Ch	: Chlorite, Chloritization	Si	: Silicification