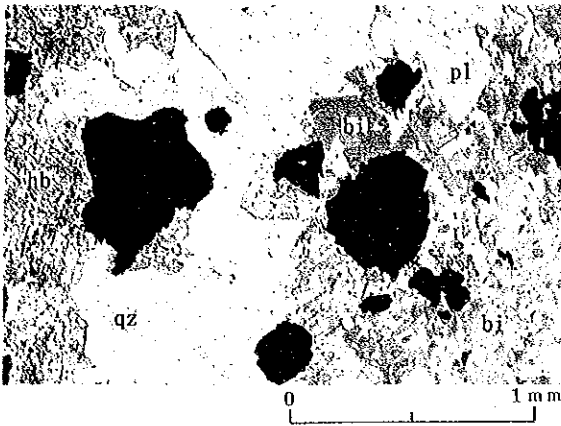


付 録

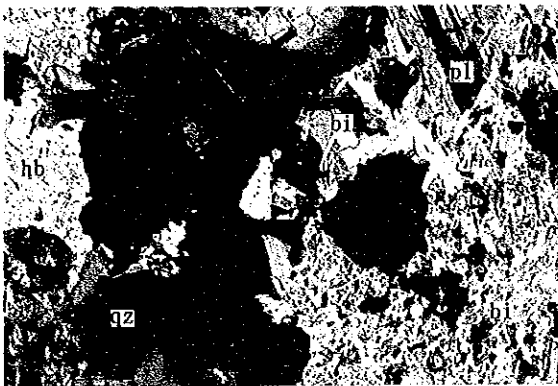
Photo A-1 Microphotograph of thin section

Abbreviation

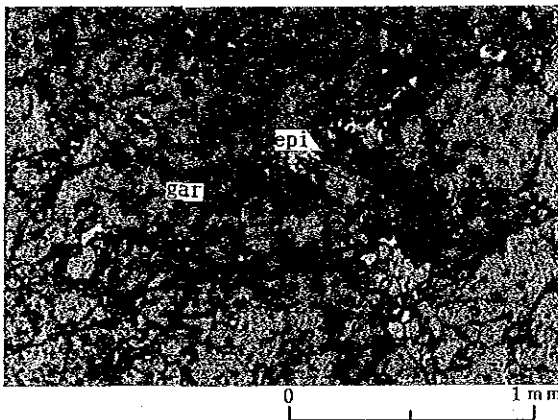
qz	:	quartz
pl	:	plagioclase
kf	:	potash feldspar
mus	:	muscovite
bi	:	biotite
bi(p)	:	biotite(deformed)
bi(h)	:	biotite(biotitization)
hb	:	hornbrende
act	:	actinolite
chl	:	chlorite
epi	:	epidote
cal	:	calcite
gar	:	garnet



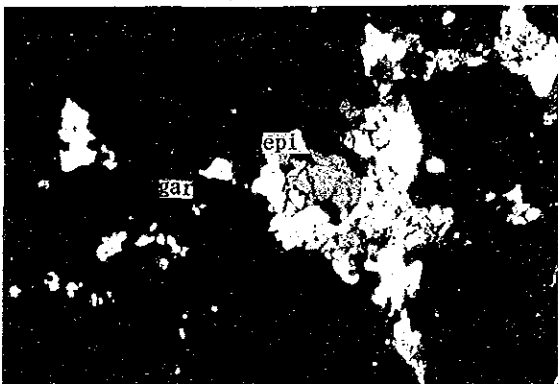
Sample No. : B3043
 Rock name : Hornbrede - (biotite)
 quartz diorite
 Location : Osohuayco
 Texture : Holocrystalline
 altered by biotite
 (only lower polar)



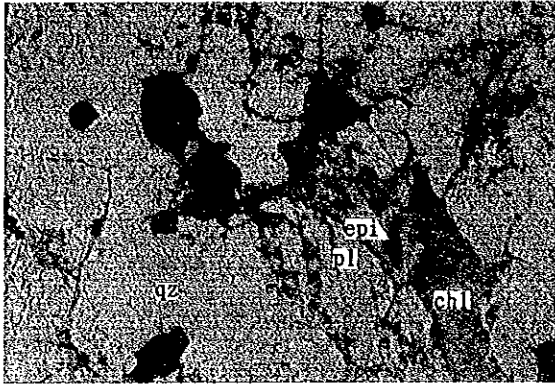
(crossed polars)



Sample No. : C3098
 Rock name : Altered dacitic
 lapilli tuff(?)
 Location : Osohuayco
 Texture : with lithic fragments(?)
 (only lower polar)



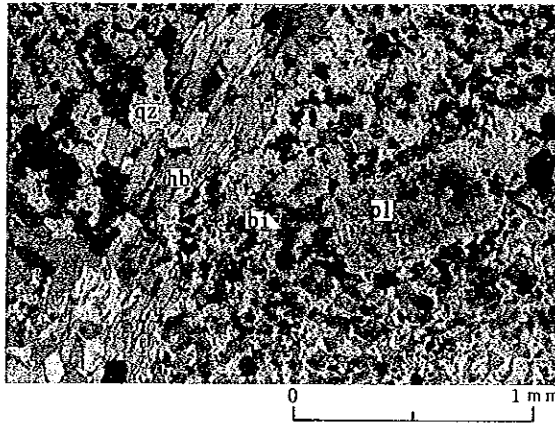
(crossed polars)



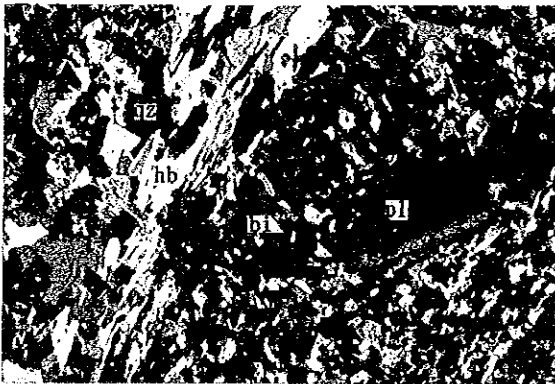
Sample No. : C3001
 Rock name : Garnet skarn
 Location : Osohuayco
 Texture : Massive, granular
 (only lower polar)



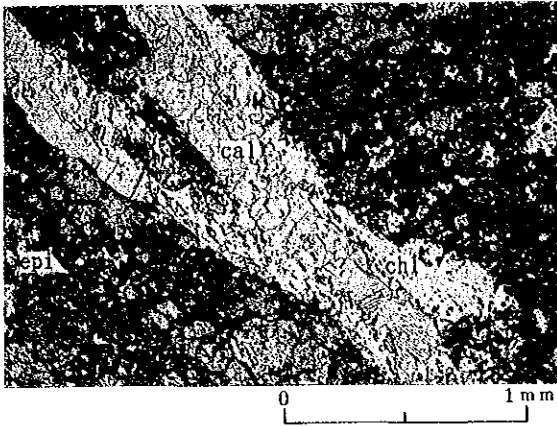
(crossed polars)



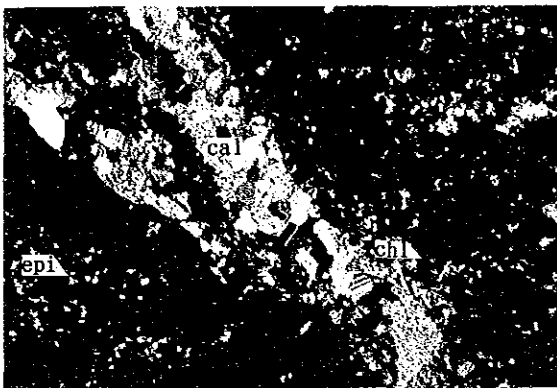
Sample No. : MJE-7 (267.3m)
 Rock name : Contact-metamorphosed
 Hornbrende andesite
 Location : Osohuayco
 Texture : Porphyritic
 (only lower polar)



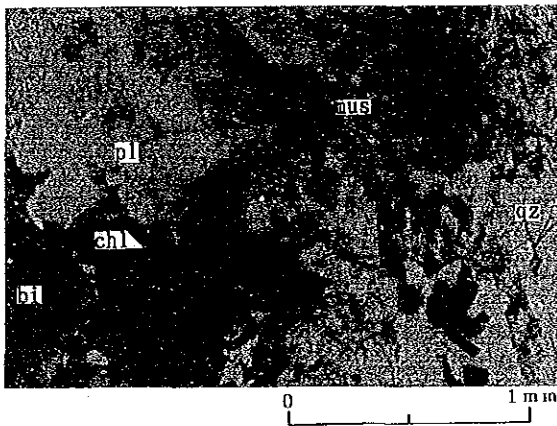
(crossed polars)



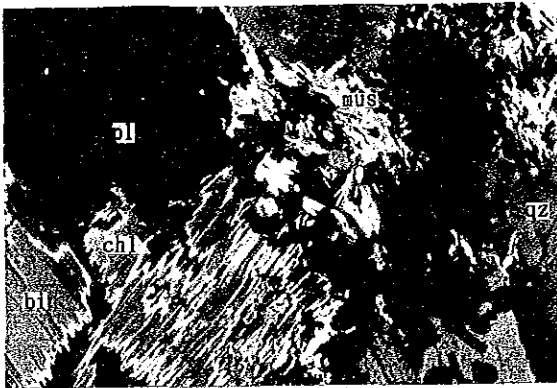
Sample No. : MJE - 7 (98.0m)
 Rock name : Garnet skarn
 with calcite veinlets
 Location : Osohuayco
 Texture : Granular aggregate
 (only lower polar)



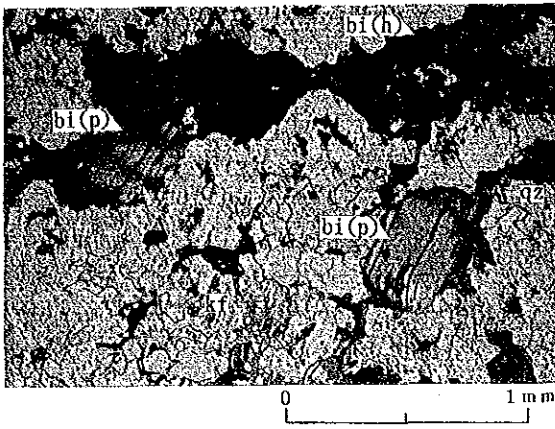
(crossed polars)



Sample No. : C3033
 Rock name : Biotite - hornbrende
 quartz diorite
 Location : Telimbela
 Texture : Holocrystalline with
 preferred orientation
 (only lower polar)

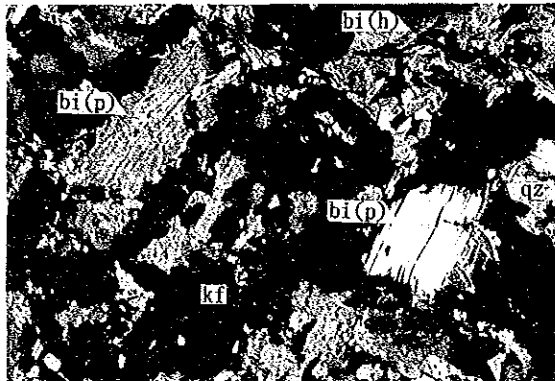


(crossed polars)

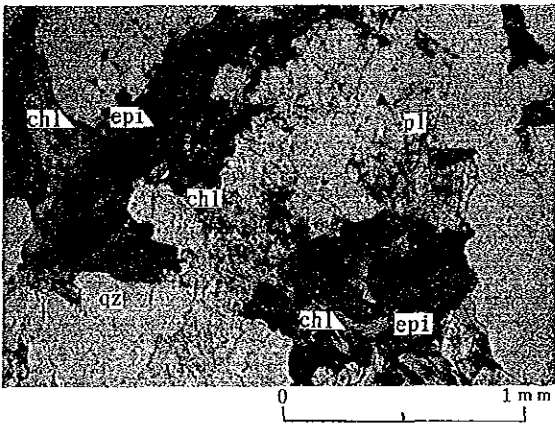


Sample No. : MJE - 8 (55.0m)
 Rock name : Biotite granodiorite
 Location : Telimbela
 Texture : Holocrystalline
 sheared

(only lower polar)

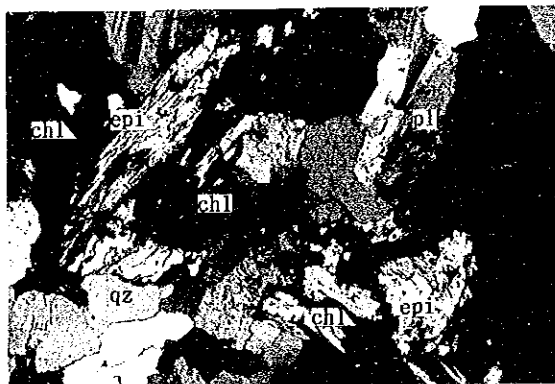


(crossed polars)

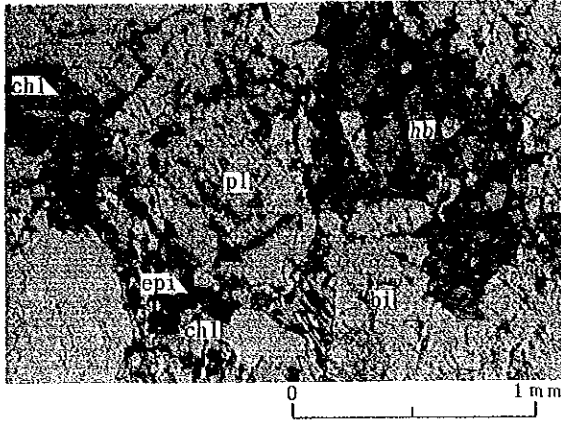


Sample No. : MJE - 8 (119.0m)
 Rock name : Biotite granodiorite
 Location : Telimbela
 Texture : Holocrystalline
 sheared

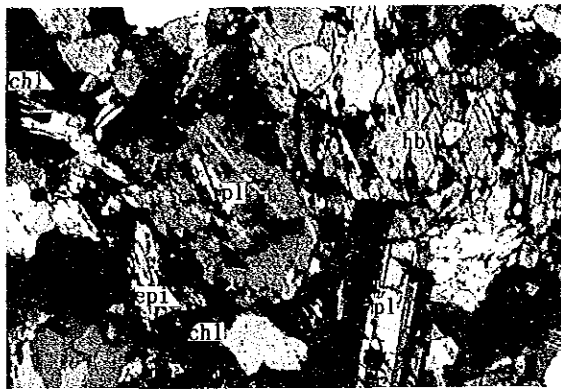
(only lower polar)



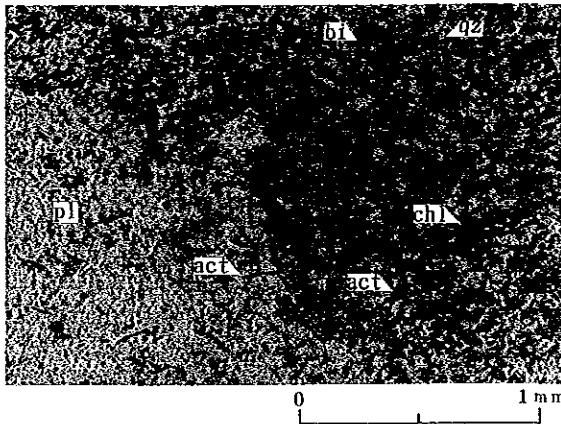
(crossed polars)



Sample No. : MJE -9 (100.0m)
 Rock name : Hornblende - biotite
 quartz diorite
 Location : Telimbela
 Texture : Holocrystalline
 sheared
 (only lower polar)



(crossed polars)



Sample No. : C3050
 Rock name : Biotite quartz diorite
 Location : Telimbela
 Texture : Holocrystalline
 (only lower polar)



(crossed polars)

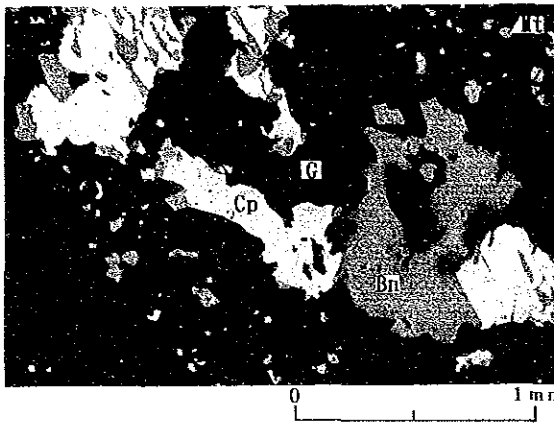
Photo A-2 Microphotograph of polished section

Abbreviation

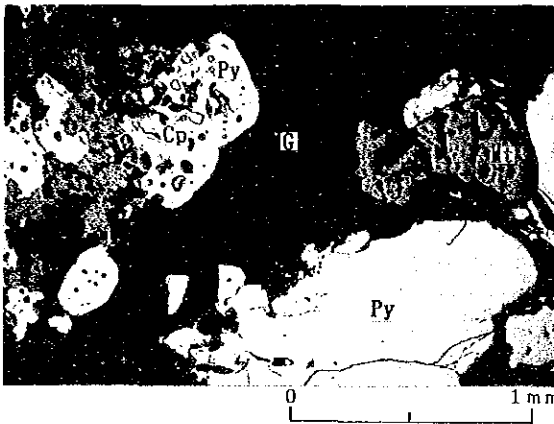
Cp	:	Chalcopyrite
Py	:	Pyrite
Mo	:	Molybdenite
Mt	:	Magnetite
Hm	:	Hematite
Bn	:	Bonite
Cc	:	Chalcocite
Lm	:	Limonite
G	:	Gangue minerals



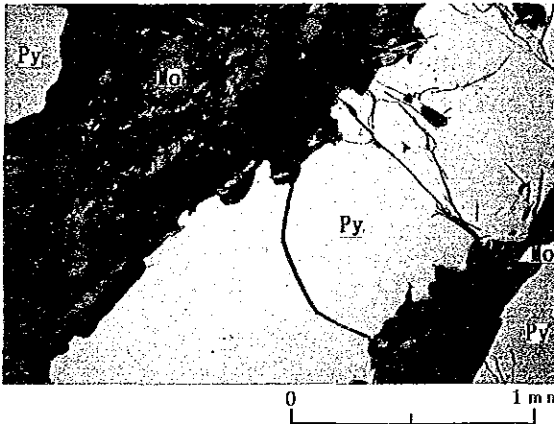
Sample No. : B3043
 Occurrence : Cp - Mo - Mt dissemination
 Location : Osohuayco



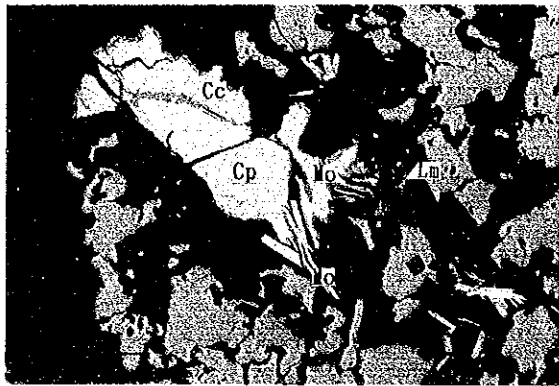
Sample No. : MJE - 7 (245.5m)
 Occurrence : Cp - Py veinlets (~3m wide),
 and Py - Mt dissemination
 Location : Osohuayco



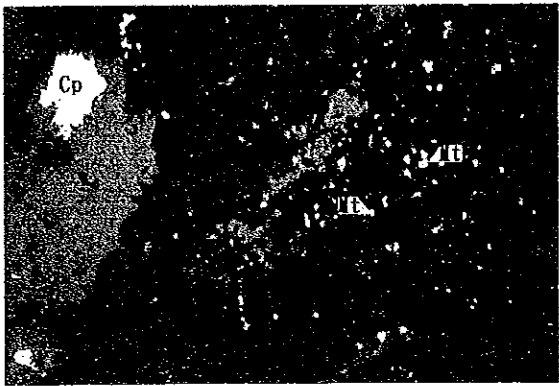
Sample No. : MJE - 7 (267.4m)
 Occurrence : Py - Mt veinlets (~3m wide),
 and Mt dissemination
 Location : Osohuayco



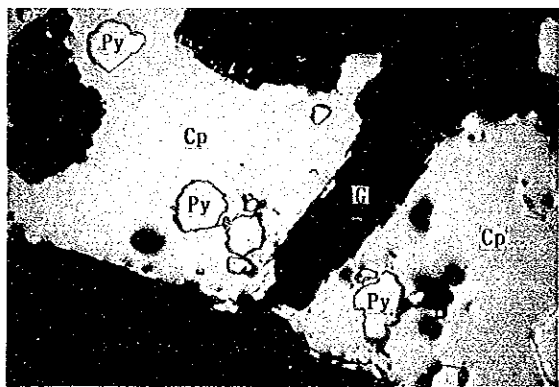
Sample No. : A3027
 Occurrence : Mo - Py - Cp - Mt dissemination
 Location : Telimbela



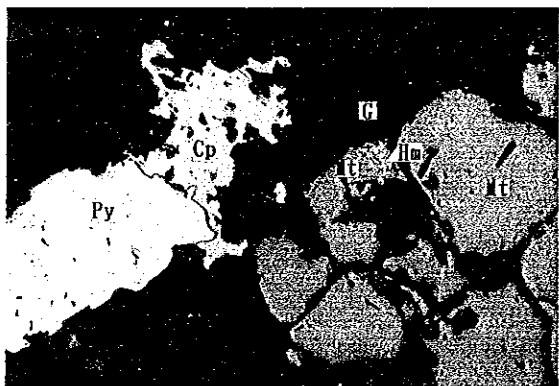
Sample No. : B3005
 Occurrence : Cp - Py veinlets (1mm wide),
 and Mt dissemination
 Location : Telimbela



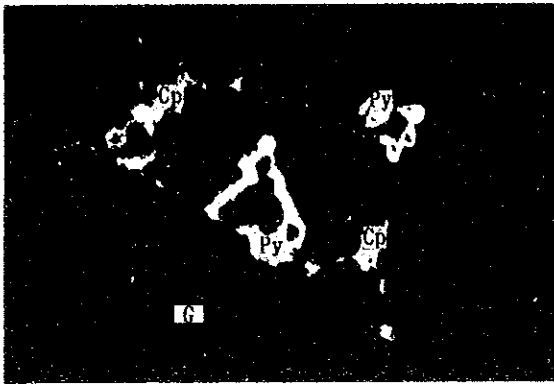
Sample No. : B3018
 Occurrence : Mo - Cp - Mt dissemination
 Location : Telimbela



Sample No. : MJE - 8 (53.8m)
 Occurrence : Cp veinlets
 Location : Telimbela

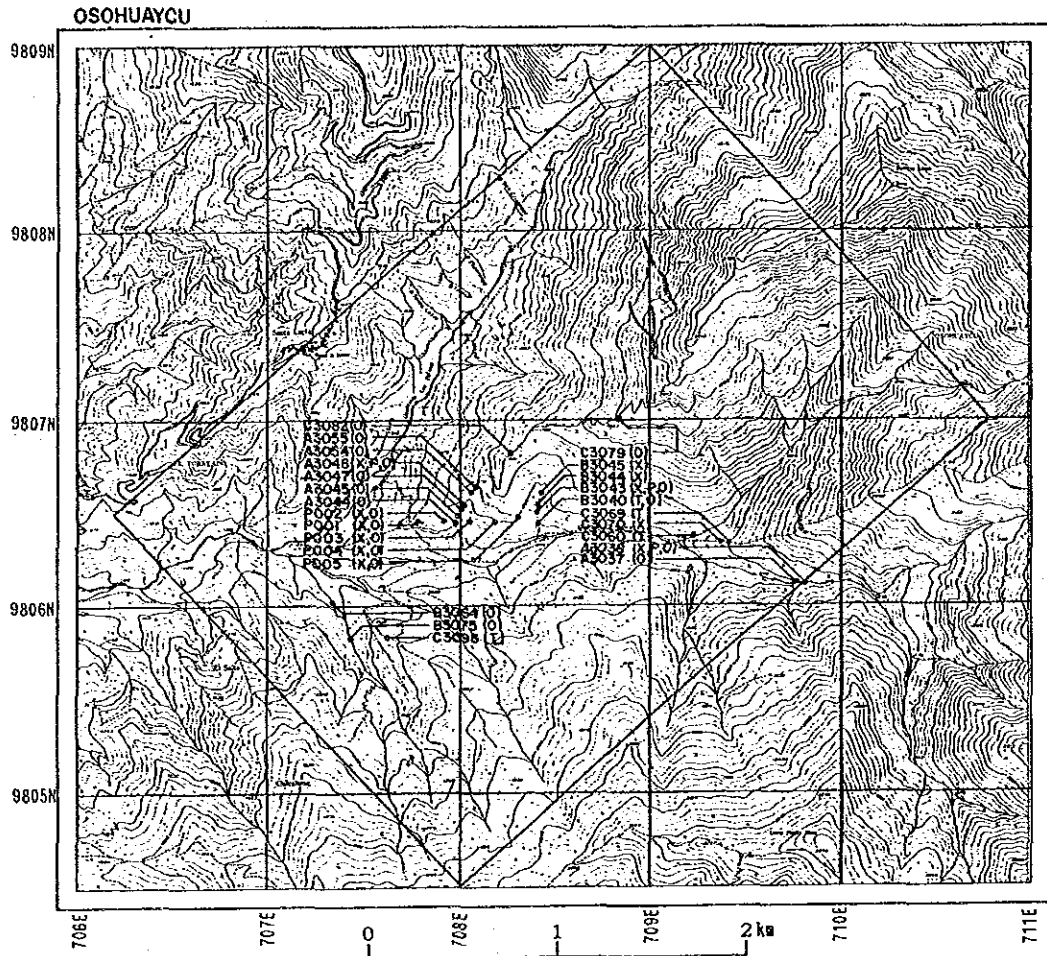


Sample No. : MJE - 8 (251.1m)
 Occurrence : Py veinlets (~ 2mm wide),
 and Cp, Py, & Mt dissemination
 Location : Telimbela



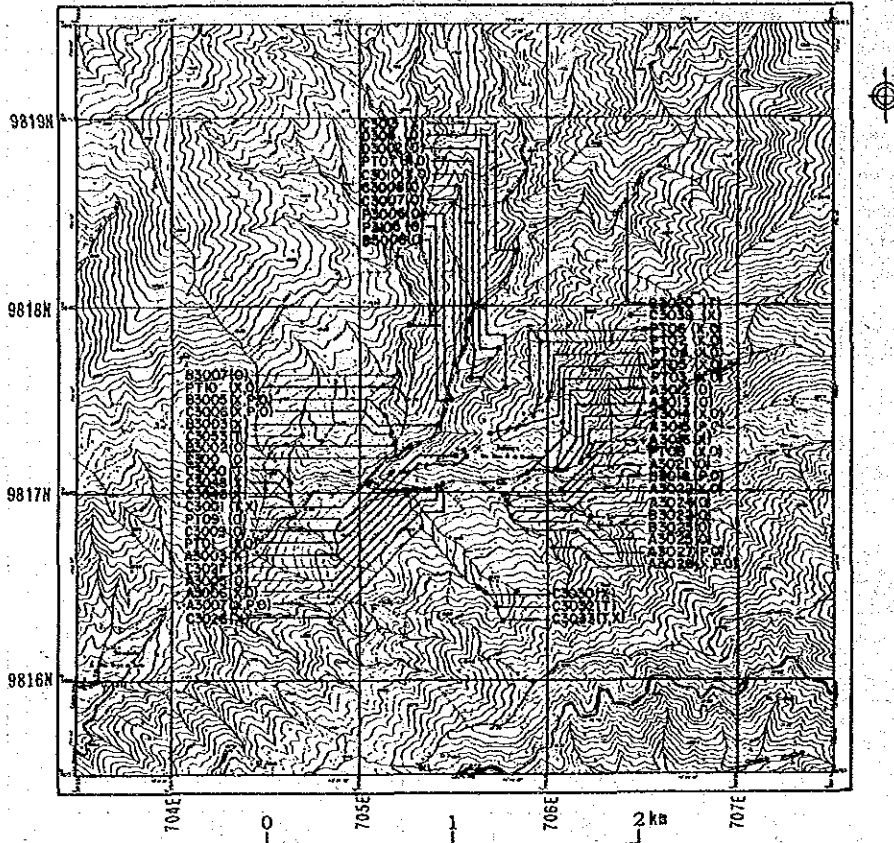
Sample No. : MJE - 9 (93.2m)
Occurrence : Cp & Py dissemination
Location : Telimbela

Fig.A-1 Location map of the sample tested



LOCATION MAP OF THE SAMPLES TESTED IN THE OSOHUAYCU AREA

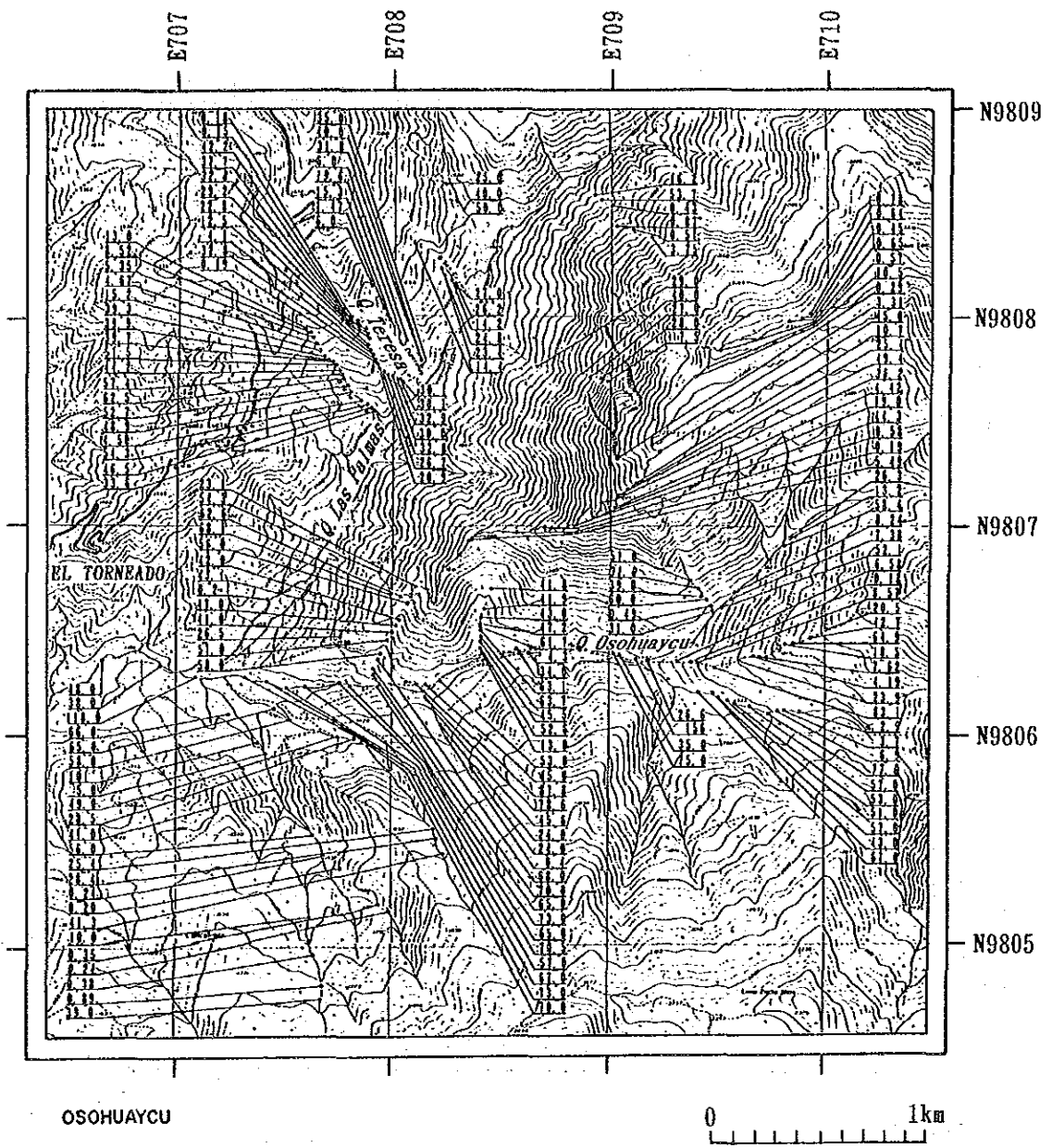
TELIMBELA

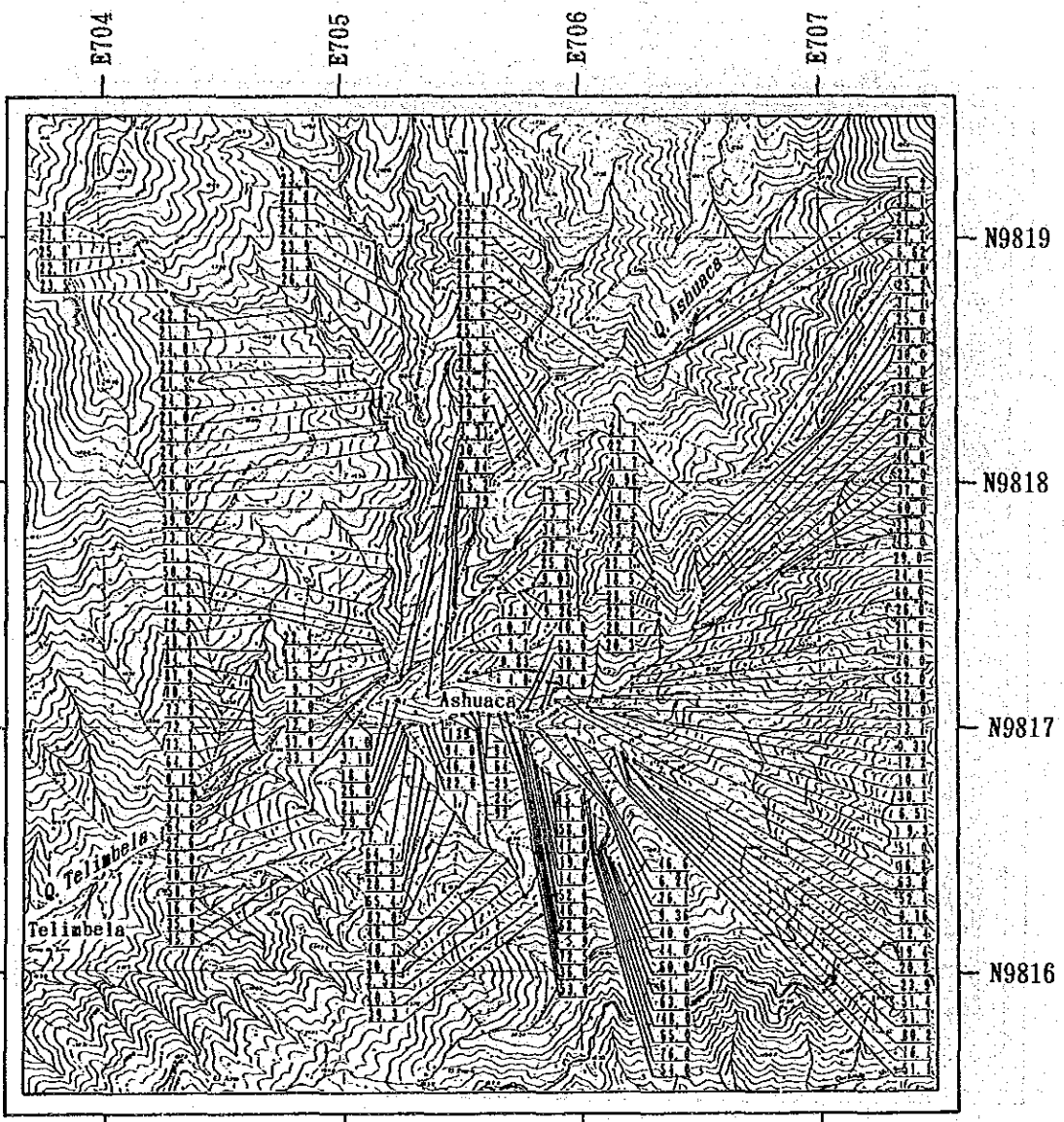


LOCATION MAP OF THE SAMPLES TESTED IN THE TELIMBELA ARE

Fig.A-2

Distribution map of the measured magnetic
susceptibility





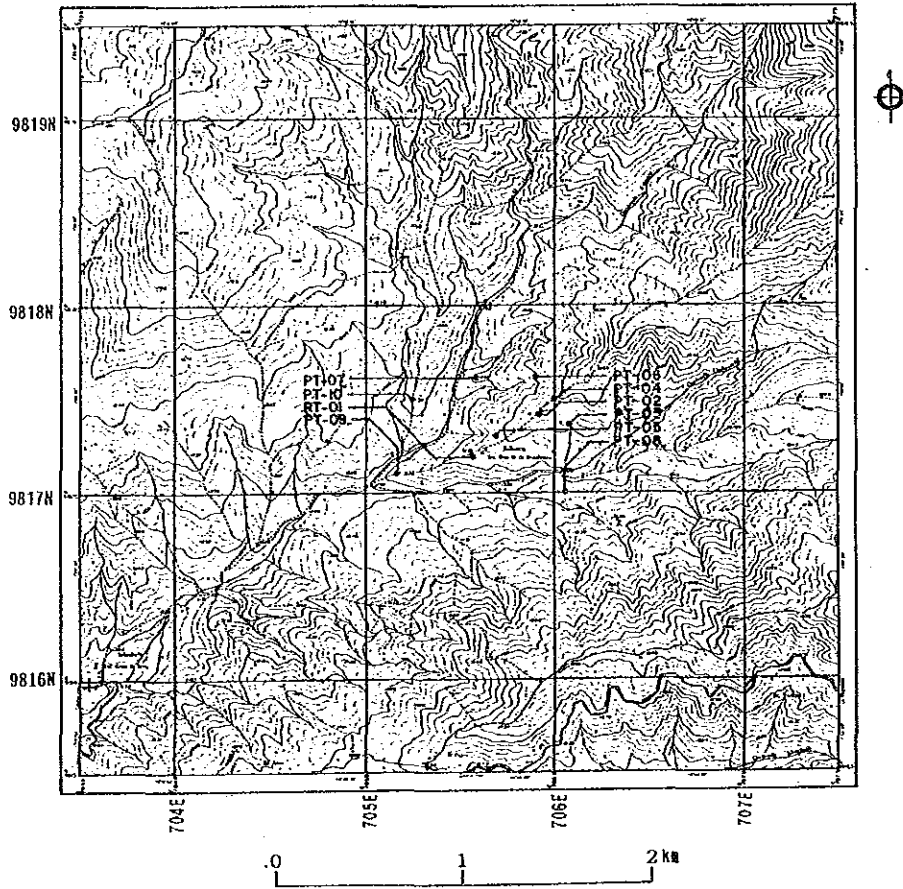
TELIMBELA

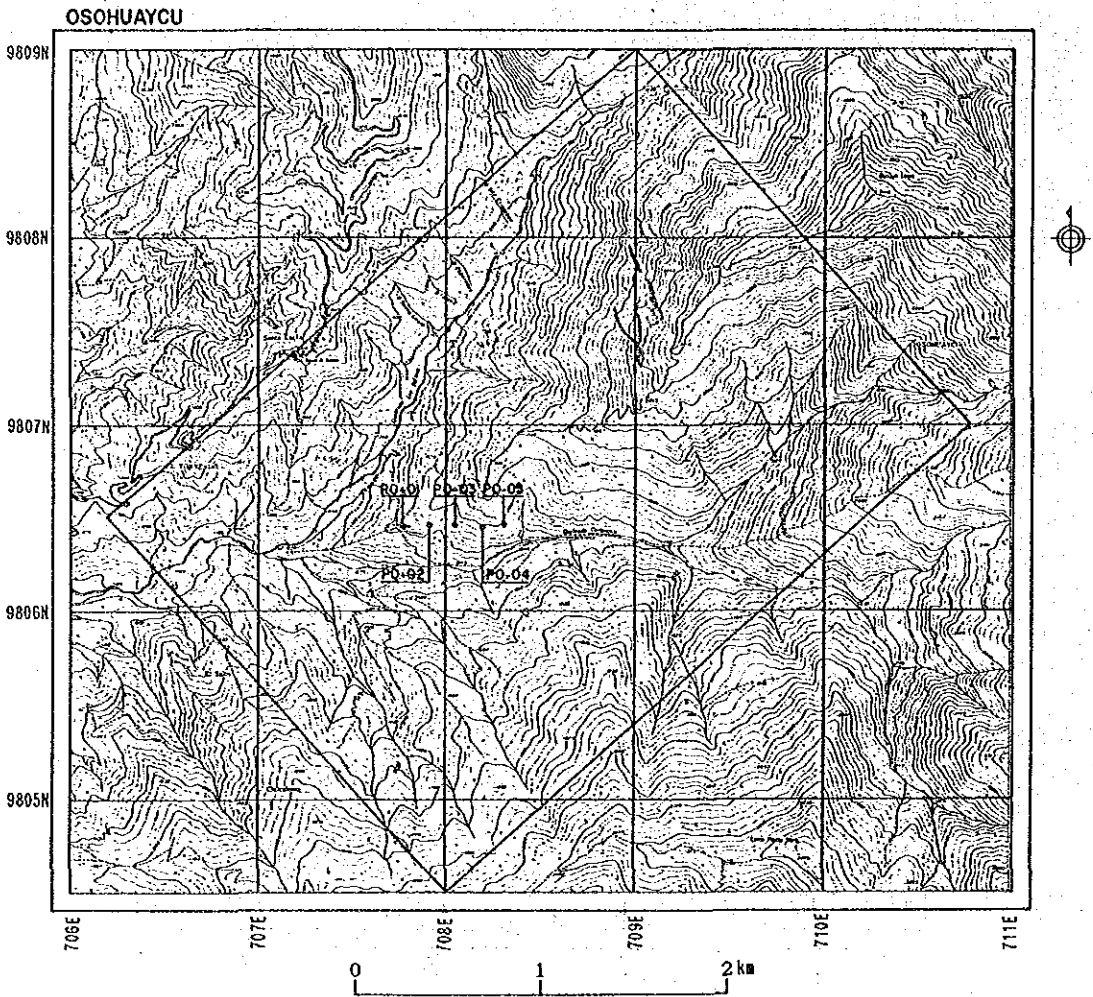


Fig.A-3

Location map of the pits tested

TELIMBELA





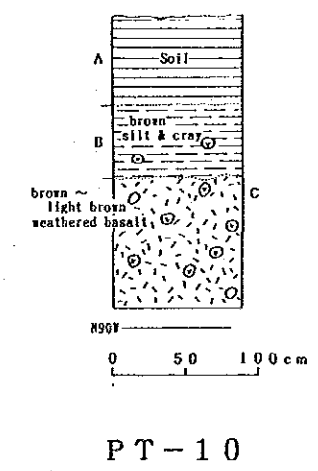
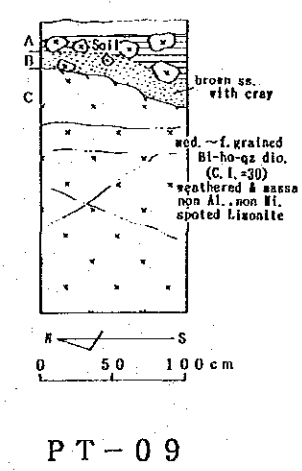
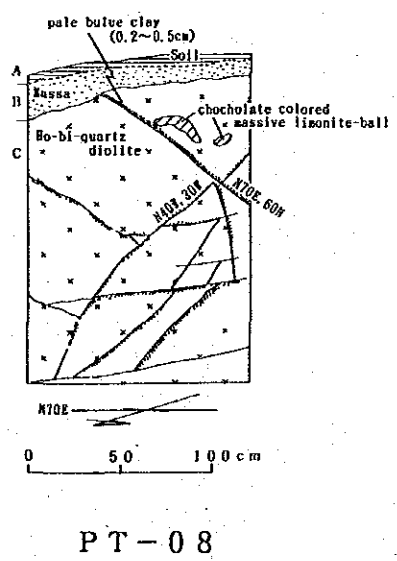
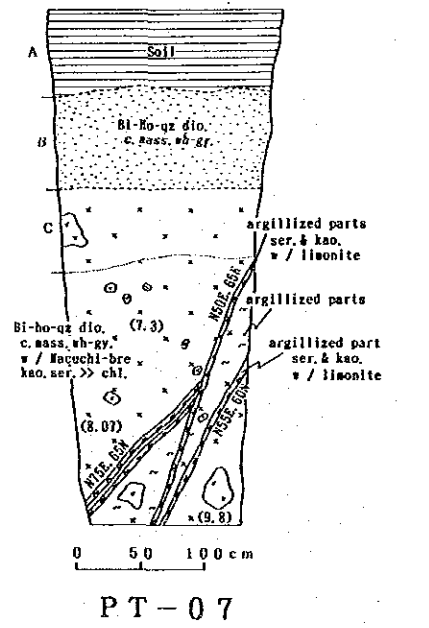
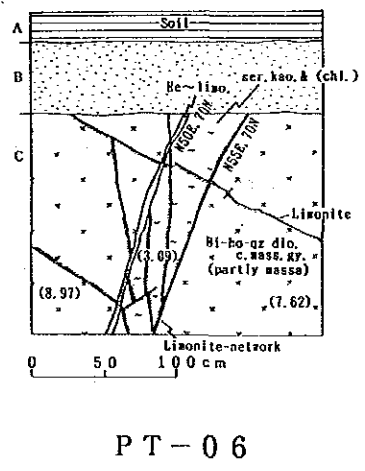
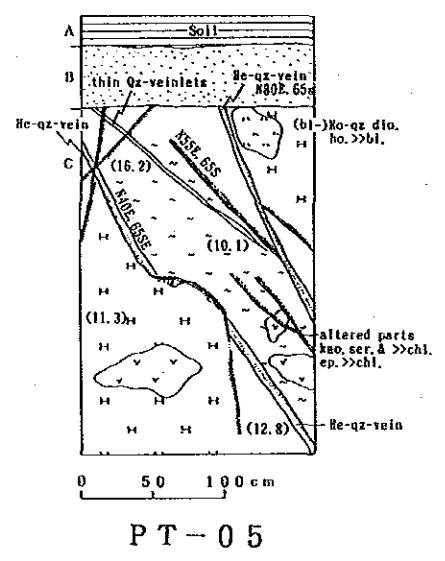
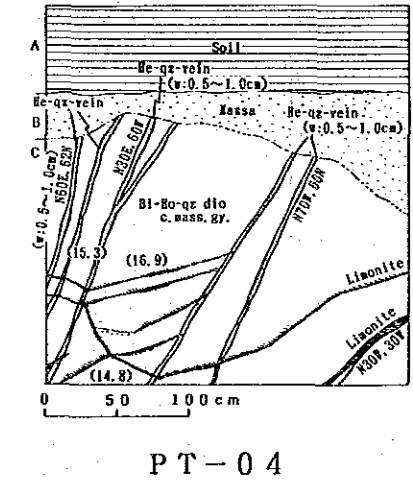
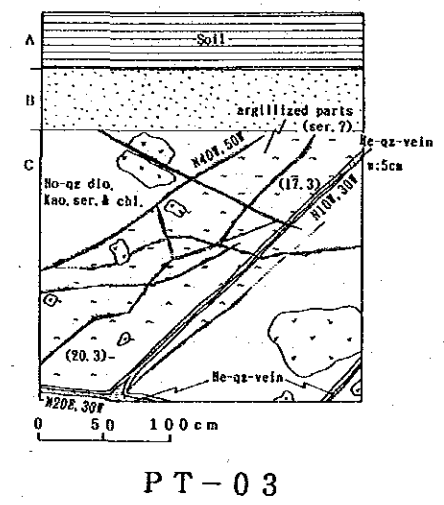
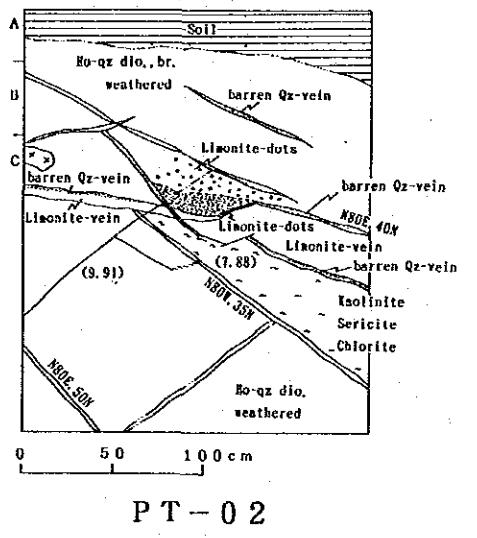
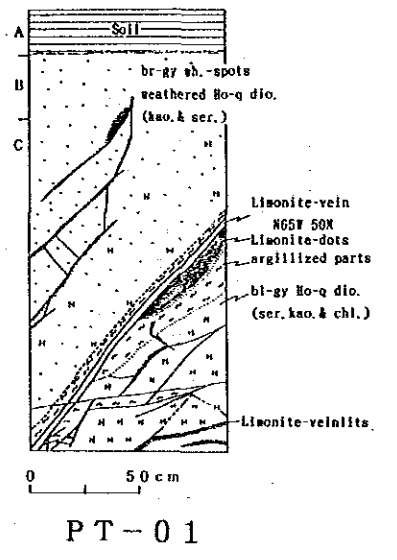
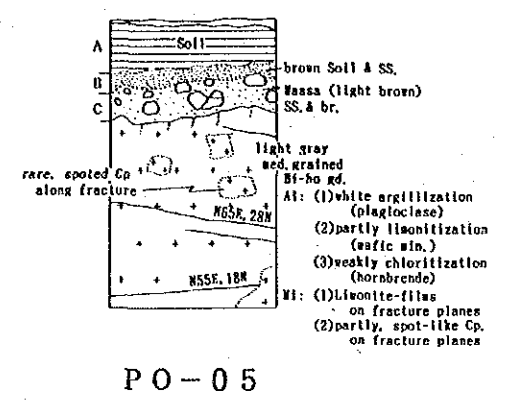
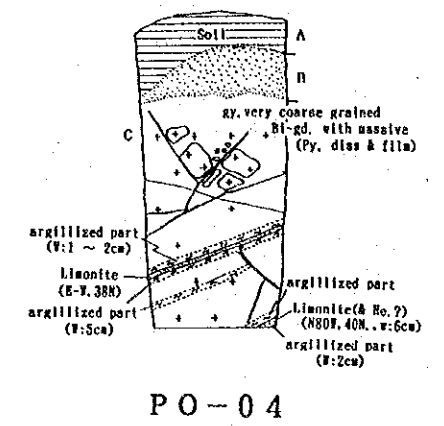
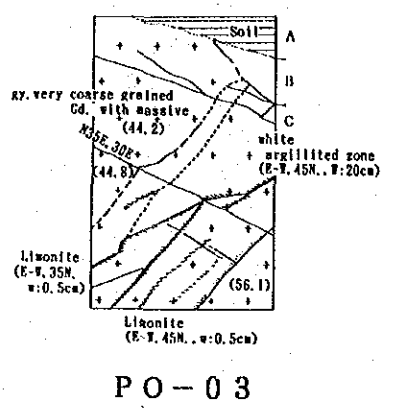
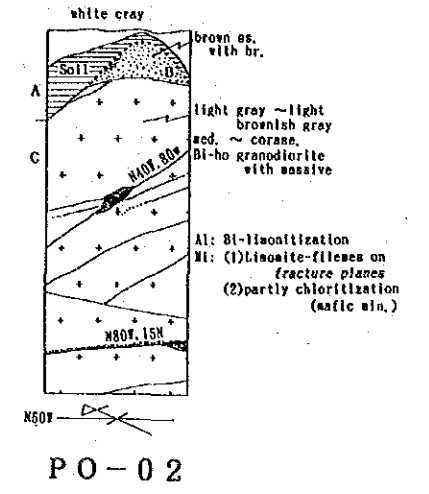
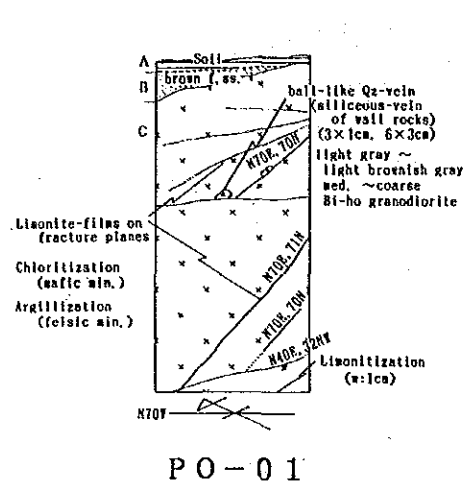
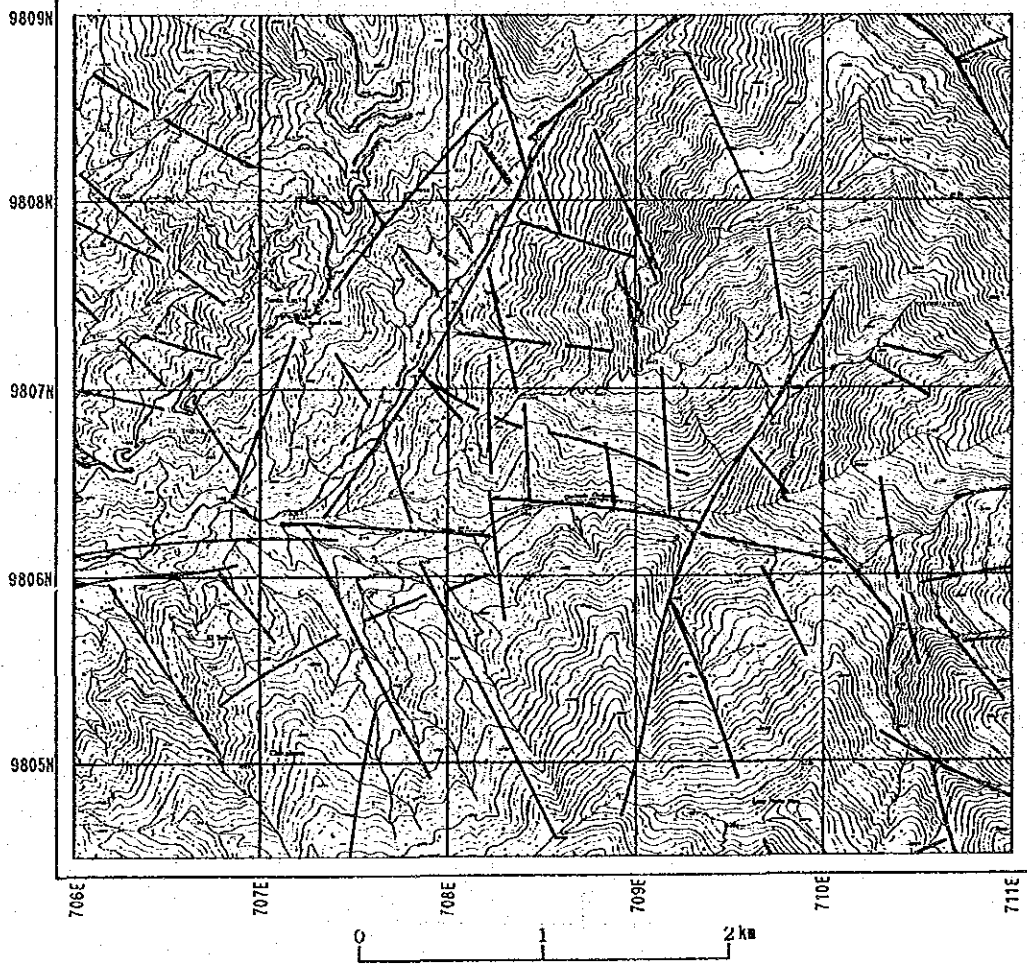


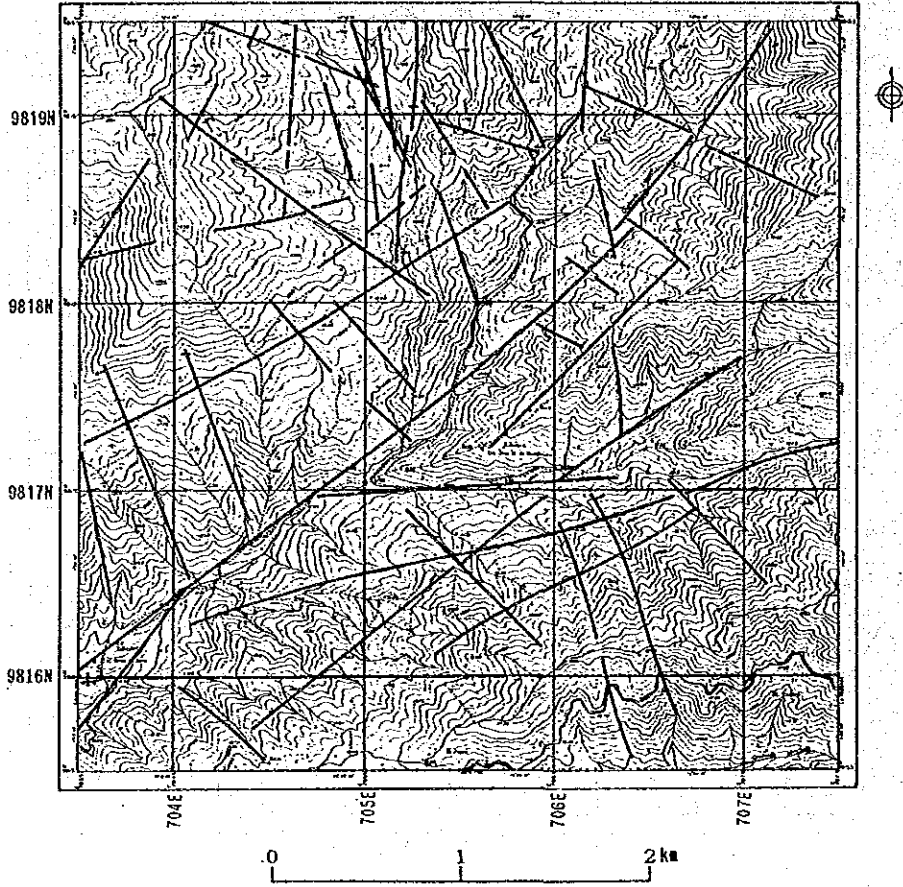
Fig.A-5

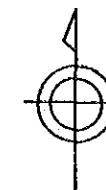
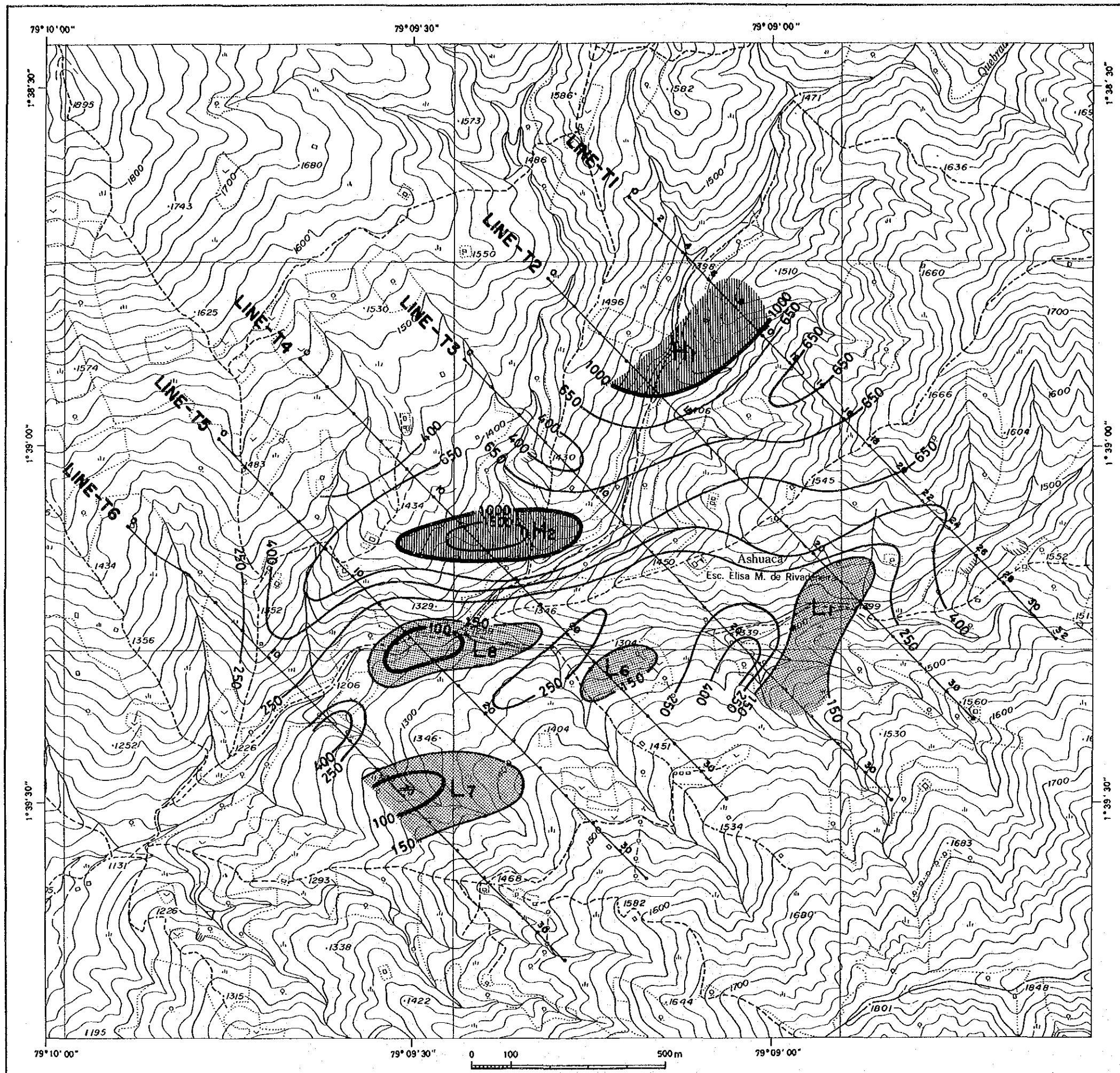
Interpretation map of lineaments on aerial
photograph

OSOBUAYCU



TELIMBELA





LEGEND


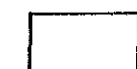

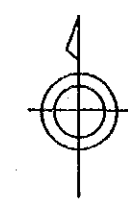
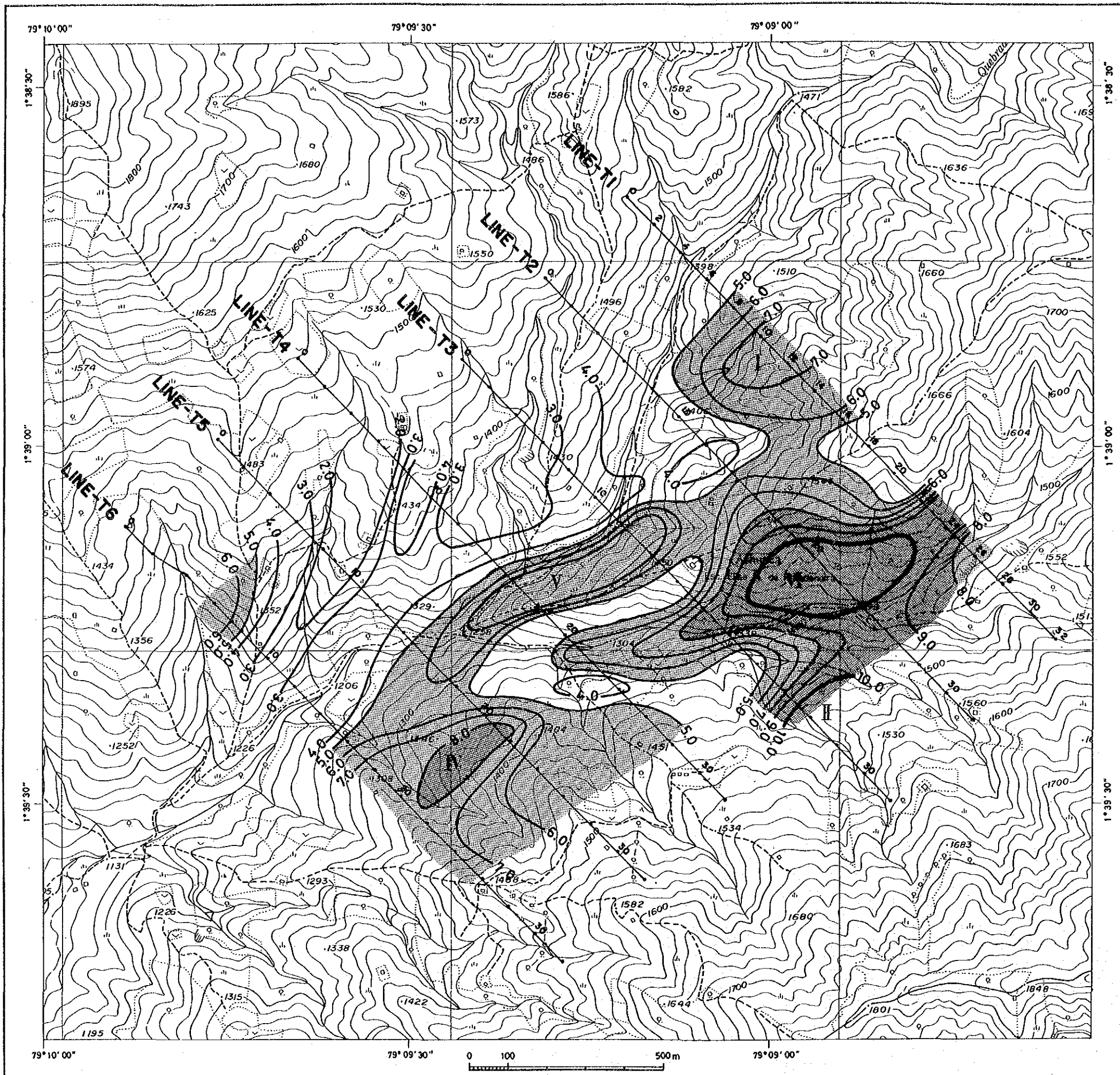
-  $1,000 \cong \rho_a$
 -  $150 \cong \rho_a < 1,000$
 -  $\rho_a < 150$
- UNIT: $\Omega \cdot m$

Fig.A-6 Apparent resistivity plan map (n=5) of the Telimbela area



LEGEND


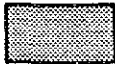
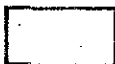
-  8.0 \leq PFE
 -  5.0 \leq PFE < 8.0
 -  PFE < 5.0
- UNIT : %

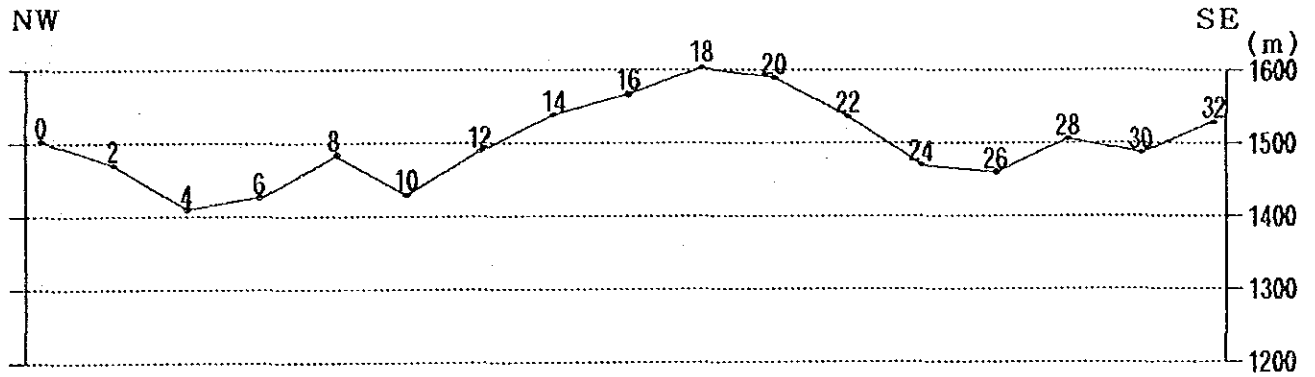
Fig.A-7 Frequency effect plan map (n=5) of the Telimbela area

PSEUDO SECTION OF IP SURVEY

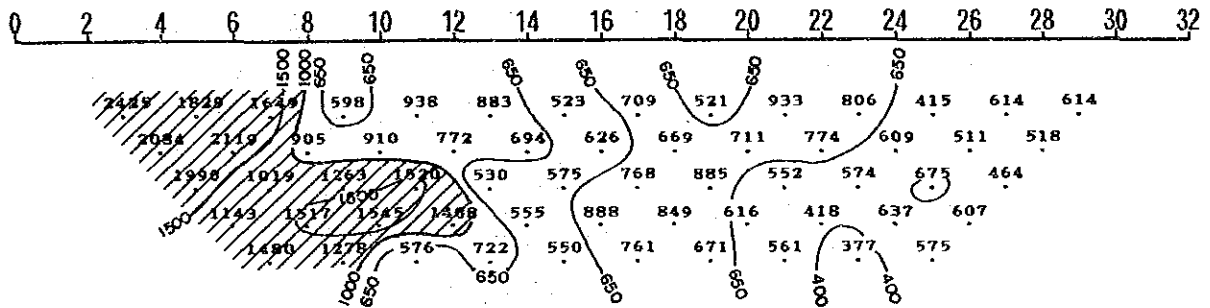
TELIBELA AREA, BOLIVAR, ECUADOR

LINE T-1

TOPOGRAPHICAL SECTION (m)



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

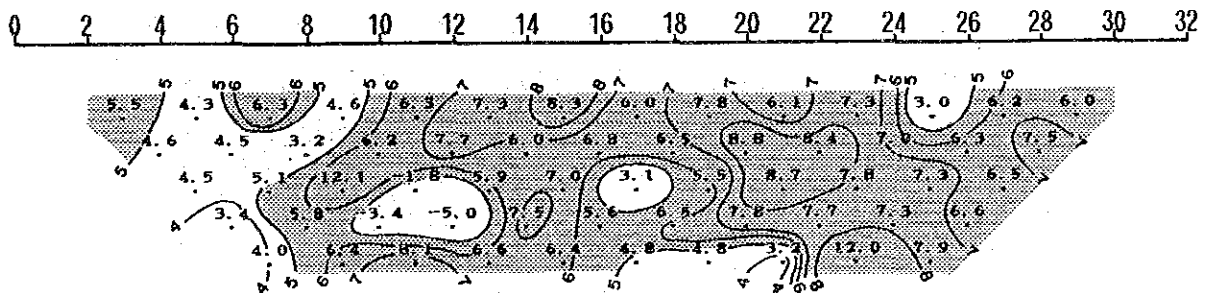


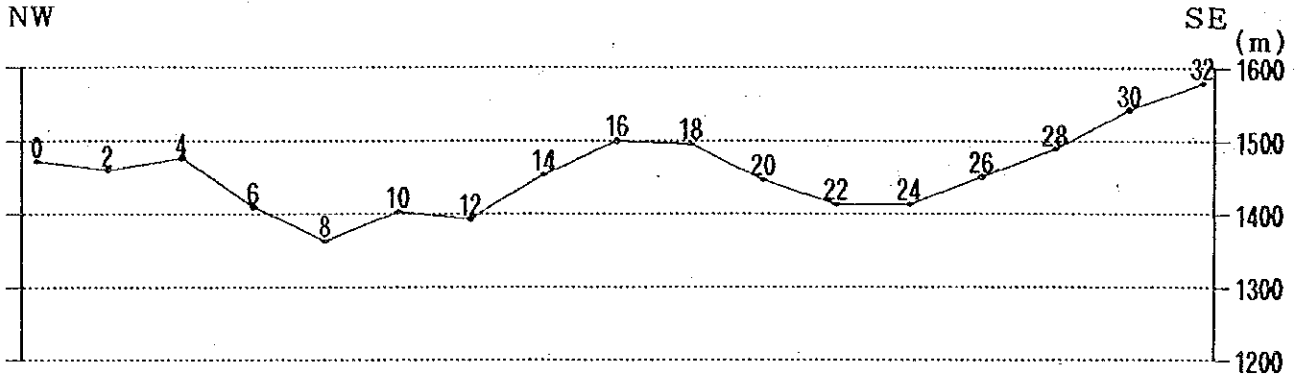
Fig.A-8-1 Pseudo-section of lines T-1 of the Telimbela area

PSEUDO SECTION OF IP SURVEY

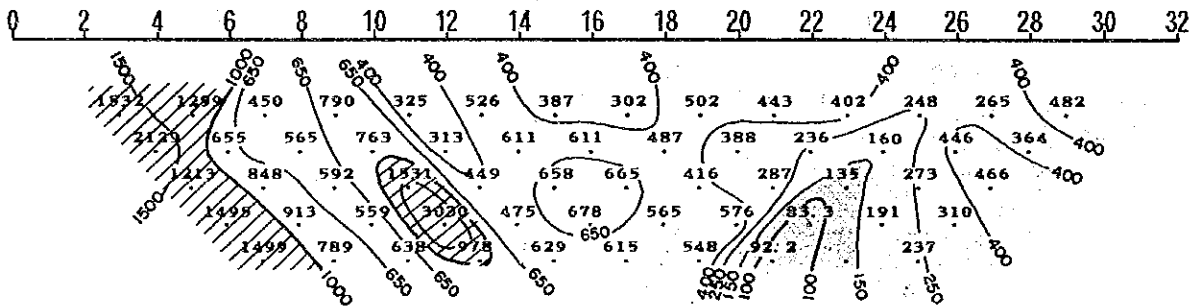
TELIMBELA AREA, BOLIVAR, ECUADOR

LINE T-2

TOPOGRAPHICAL SECTION (m)



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

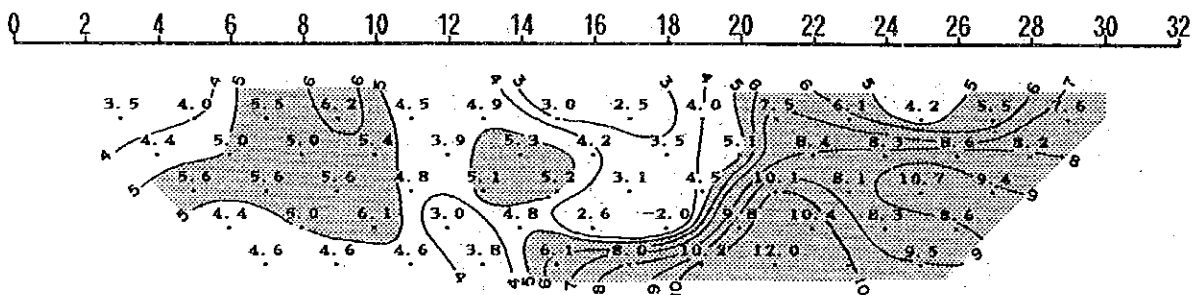


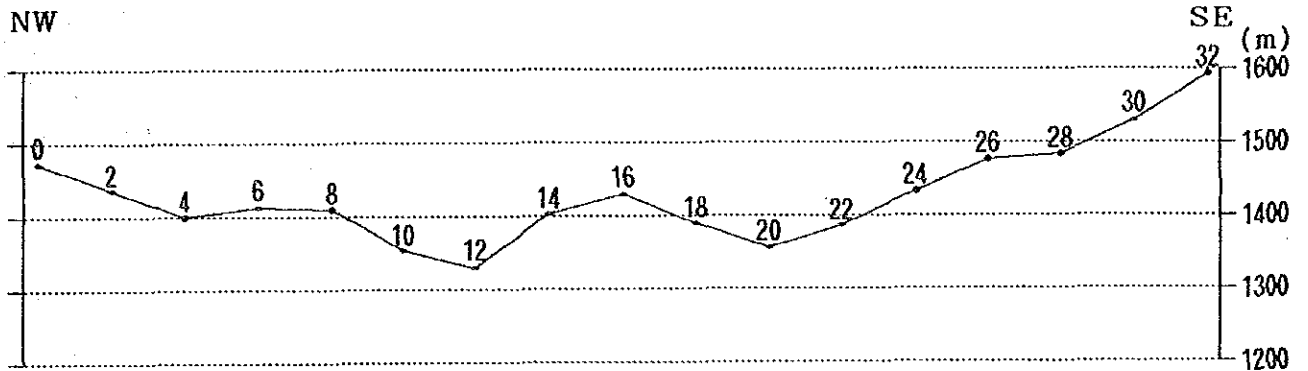
Fig.A-8-2 Pseudo-section of lines T-2 of the Telimbela area

PSEUDO SECTION OF IP SURVEY

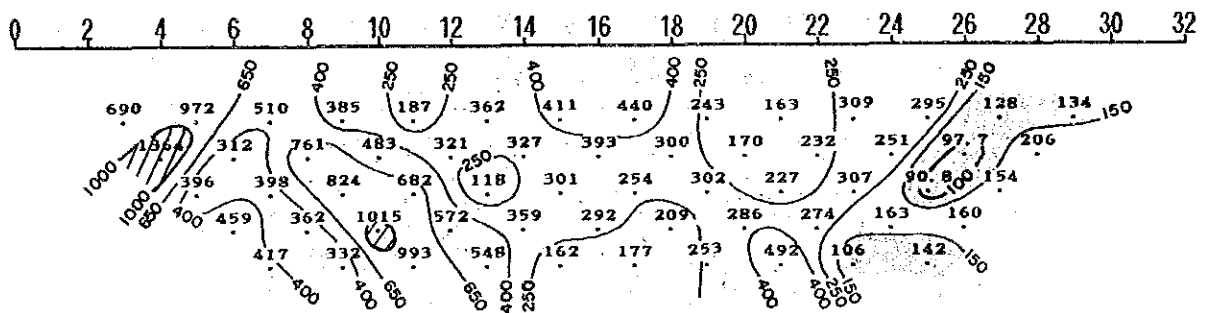
TELIMBELA AREA, BOLIVAR, ECUADOR

LINE T-3

TOPOGRAPHICAL SECTION (m)



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

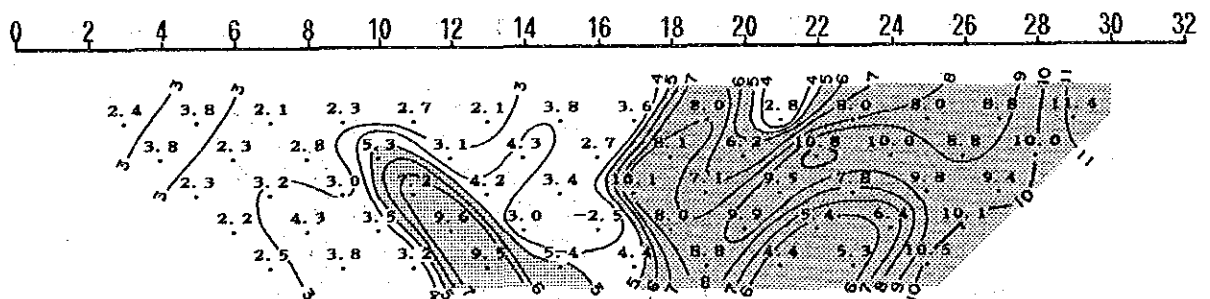


Fig.A-8-3 Pseudo-section of lines T-3 of the Telimbela area

PSEUDO SECTION OF IP SURVEY

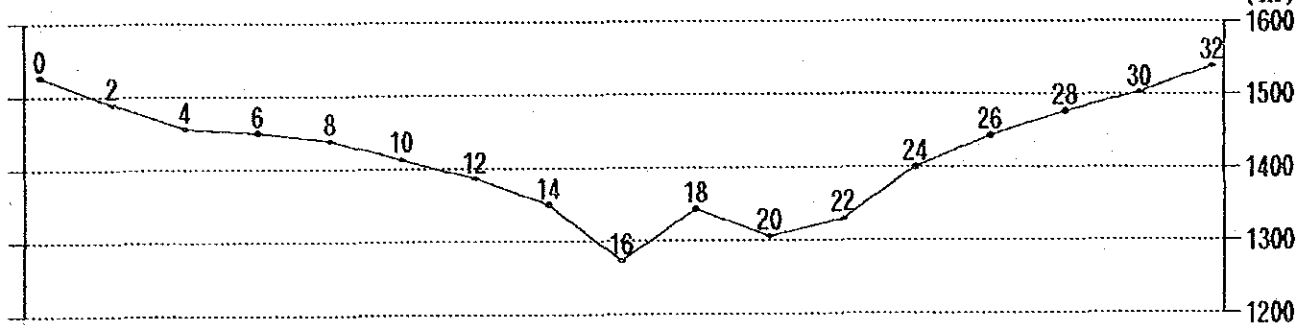
TELIBELA AREA, BOLIVAR, ECUADOR

LINE T-4

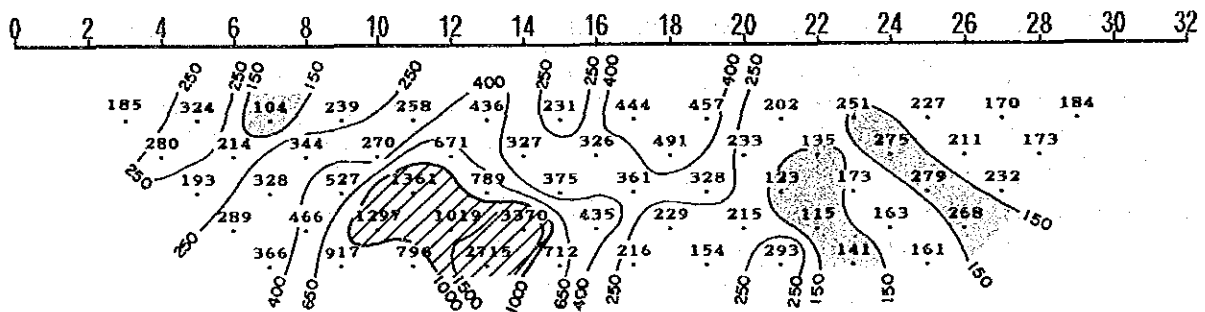
TOPOGRAPHICAL SECTION (m)

NW

SE (m)



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

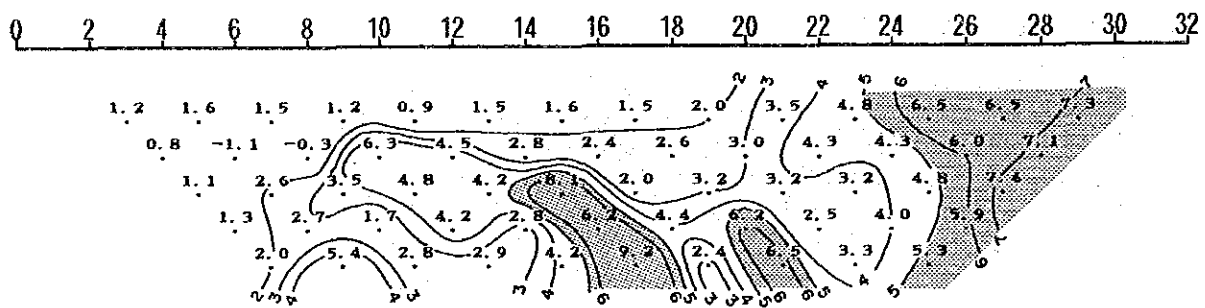
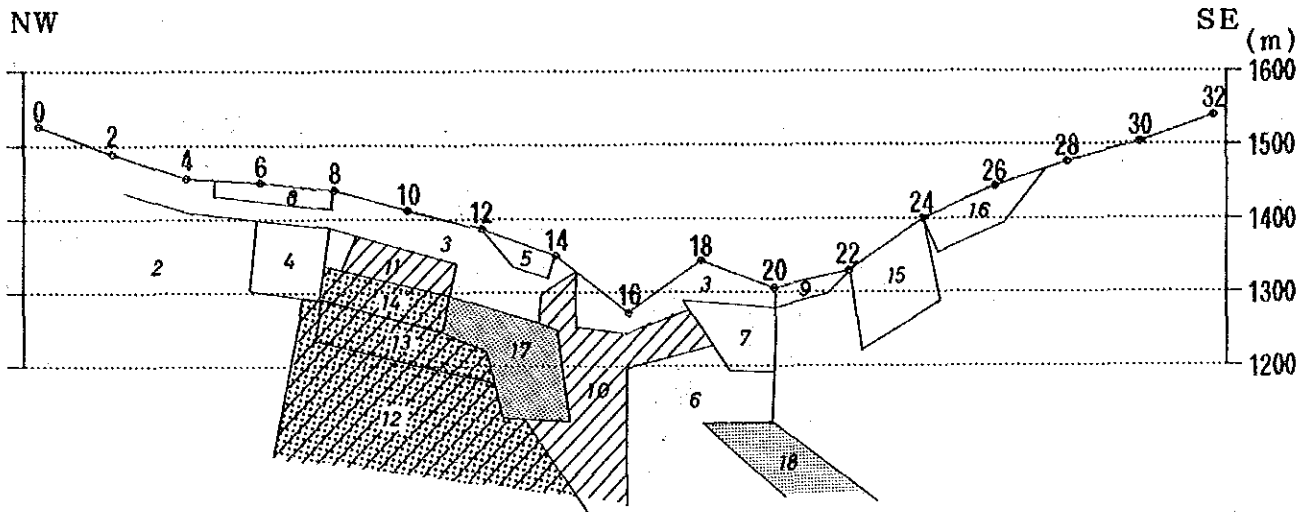


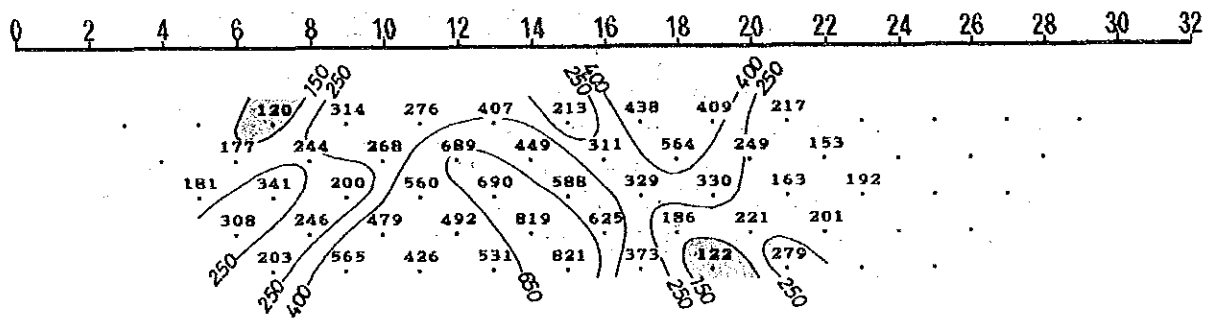
Fig.A-8-4 Pseudo-section of lines T-4 of the Telimbela area

ASSUMED MODEL

CODE NUMBER :	1	2	3	4	5	6	7	8	9
RESISTIVITY (ohm-m) :	200.0	400.0	230.0	30.00	100.0	300.0	600.0	500.0	350.0
P. F. E. (%) :	4.00	1.50	.800	1.50	1.50	1.50	1.80	2.00	2.80
CODE NUMBER :	10	11	12	13	14	15	16	17	18
RESISTIVITY (ohm-m) :	1000.	1500.	8000.	4000.	2000.	200.0	100.0	200.0	200.0
P. F. E. (%) :	2.50	2.80	5.00	20.0	25.0	5.00	5.50	13.0	20.0



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

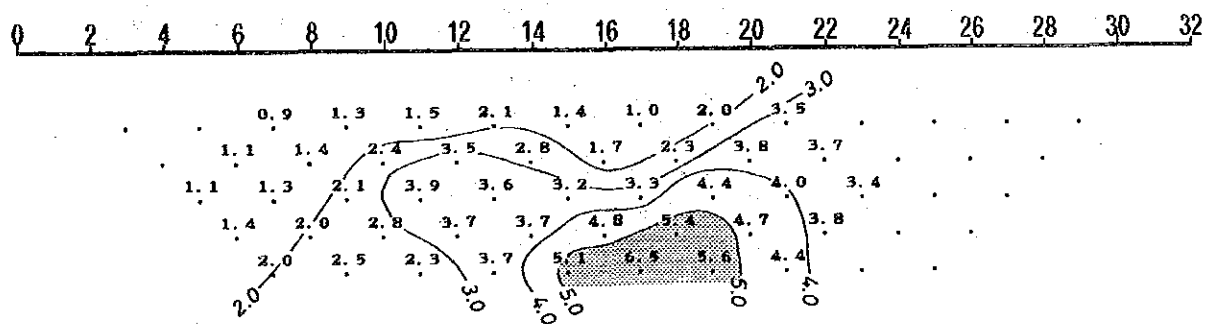
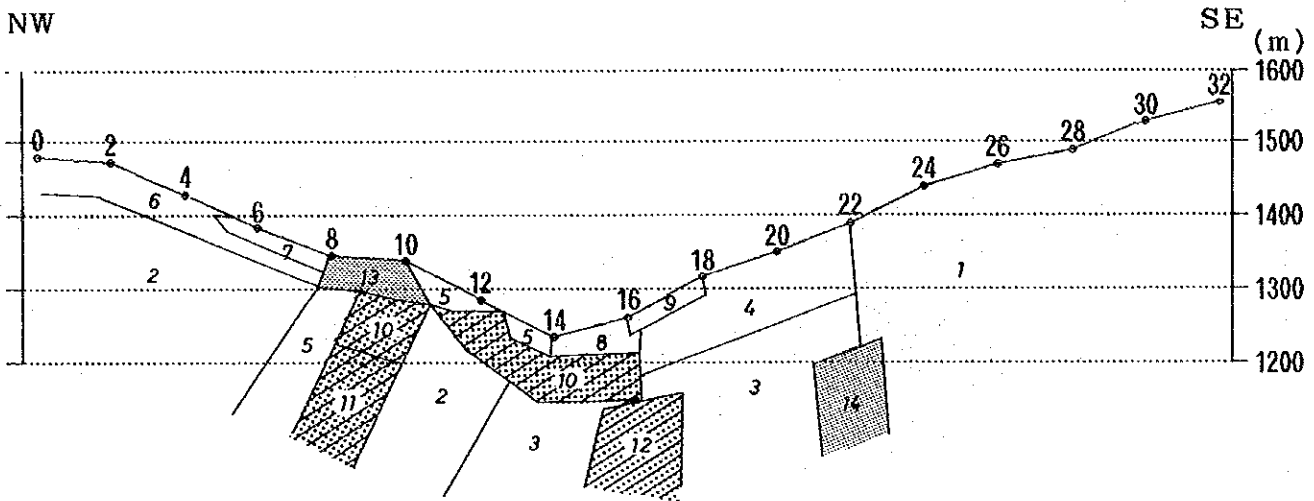


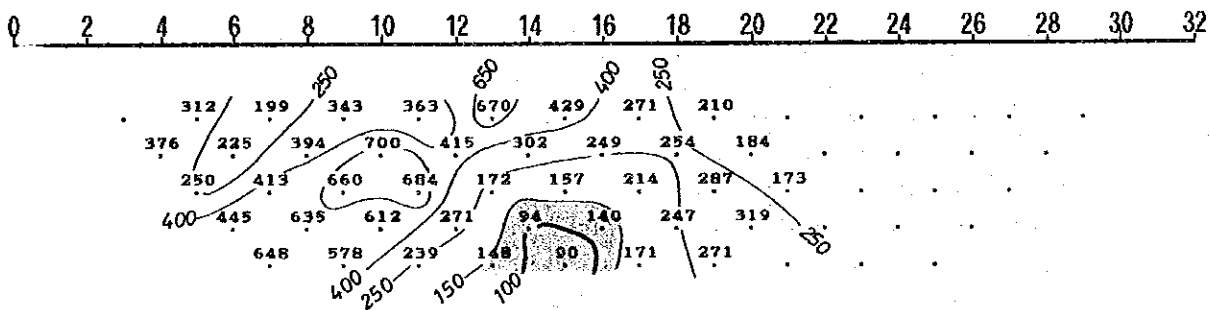
Fig.A-9-1 Analyzed sections of lines T-4 of the Telimbela area

ASSUMED MODEL

CODE NUMBER :	1	2	3	4	5	6	7	8
RESISTIVITY (ohm-m) :	250.0	400.0	60.00	230.0	350.0	250.0	350.0	600.0
P. F. E. (%) :	5.00	2.00	4.00	2.50	3.50	4.00	4.50	5.00
CODE NUMBER :	9	10	11	12	13	14		
RESISTIVITY (ohm-m) :	350.0	1200.	1300.	1200.	150.0	200.0		
P. F. E. (%) :	6.00	5.50	15.0	15.0	7.50	20.0		



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

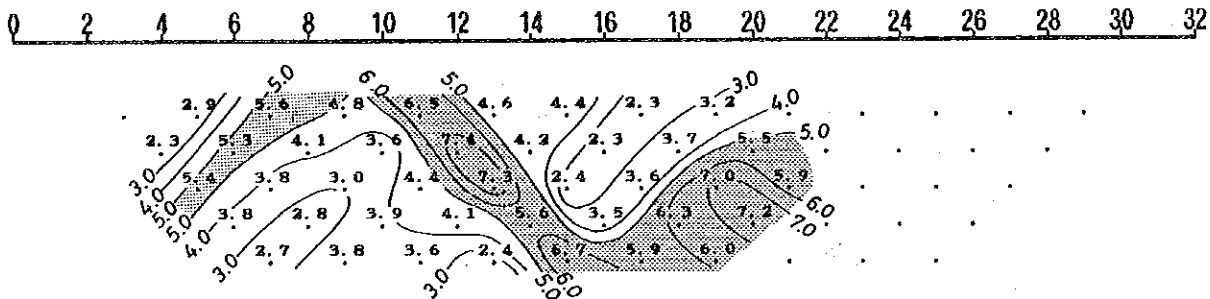
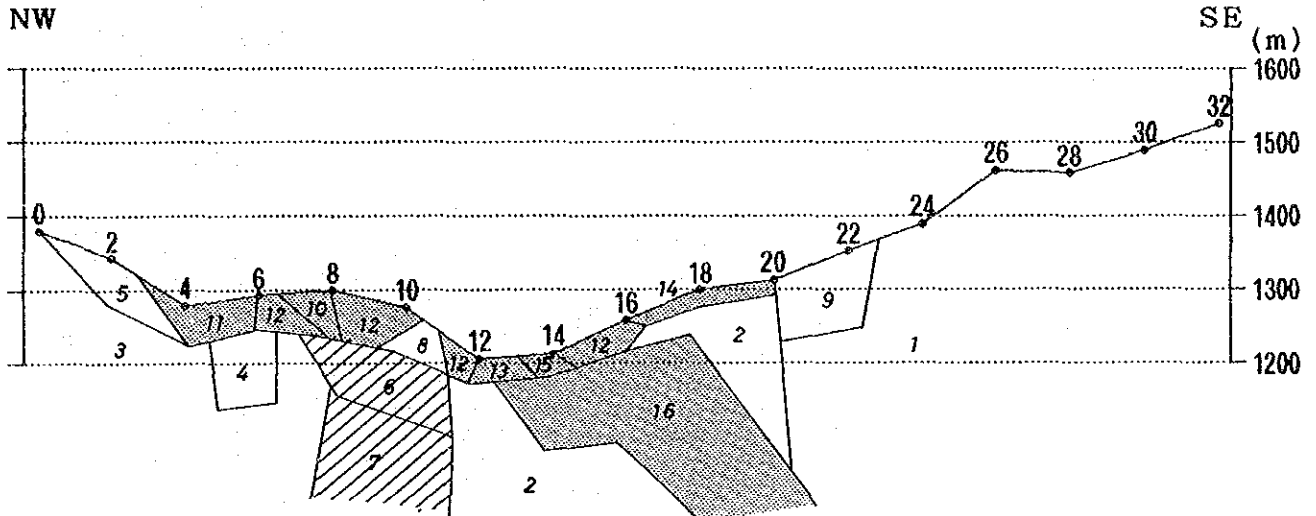


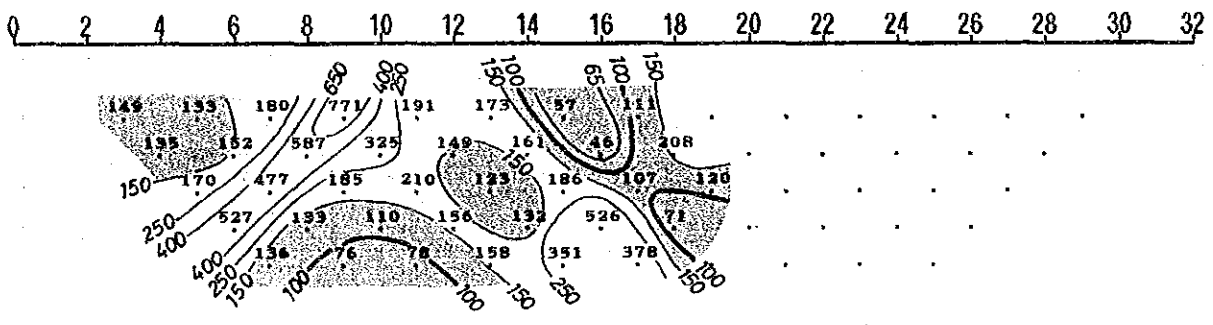
Fig.A-9-2 Analyzed sections of lines T-5 of the Telimbela area

ASSUMED MODEL

CODE NUMBER :	1	2	3	4	5	6	7	8
RESISTIVITY (ohm-m) :	200.0	200.0	200.0	100.0	100.0	2000.	5000.	900.0
P. F. E. (%) :	5.00	3.50	2.50	3.00	4.50	3.00	1.00	10.0
CODE NUMBER :	9	10	11	12	13	14	15	16
RESISTIVITY (ohm-m) :	400.0	300.0	230.0	180.0	180.0	100.0	80.00	60.00
P. F. E. (%) :	6.50	10.0	10.5	10.5	12.5	7.00	11.0	9.00



APPARENT RESISTIVITY ($\Omega \cdot m$)



PERCENT FREQUENCY EFFECT (%)

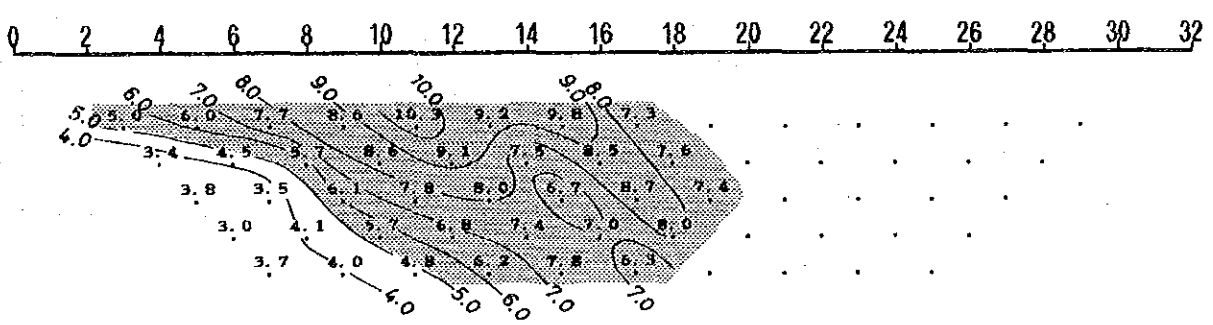


Fig.A-9-3 Analyzed sections of lines T-6 of the Telimbela area

Table A-2 Microscopic observations (polished section)

No.	Sample No.	Location		Occurrence*	Minerals													
		Area	Coordinates		Chalcopyrite (cp)	Bornite (bn)	Chalcosite (cc)	Covellite (cv)	Molybdenite (mo)	Sphalerite (sp)	Pyrite (py)	Magnetite (mt)	Heazlettite (hm)	Carena (cr)	Arsenopyrite(asp)	Cubanite (cb)	Gangue minerals(G)	
			E		N													
P 1	A3038	Osohuayco	709.81	9806.12	Cp-Py-8 irregular Vein in strogly oil. hornfels. Py-Cp veinlets and Py-Mt diss	.					.	●	.				●	
P 2	A3048		708.04	9806.56	Cp-Py diss & thin Vein in sil.c. ho bearing gd. Cp-Py-Mt diss	○		.				○	●				●	
P 3	B3043		708.41	9806.53	Cp-Py diss & film in bi-ho-gd. Cp-Mo-Mt diss	●	●					●	
P 4	MJE-7 245.5		707.88	9805.68	Cp and Py diss & film in hornfels Cp-Py veinlets (~3mm wide), and Py-Mt diss	●	.				.	●	●				●	
P 5	MJE-7 267.4		707.88	9805.68	Py-Cp diss & film in hornfels Py-Mt veinlets (~3mm wide), and Mt diss	.					.	○	●				●	
P 6	A3007	Teli Mbeia	708.41	9806.53	Cp-Py-diss & film in melano qd & hornfels Cp-Mo-Mt diss	●					.	○					●	
P 7	A3015		708.41	9806.53	Cp-Py diss & film in melano qd & hornfels Cp-Mo-Mt diss	.	.					○	.				●	
P 8	A3027		705.89	9816.80	Py-Mo thin Vein (1mm) in melano gd Mo-Py-Cp-Mt diss	.	.				○	.	●				●	
P 9	A3028		706.04	9816.70	Cp-Py diss in melano qd Py-Cp-Mt diss	.	.					○	●	.			●	
P 10	B3005		705.41	9817.14	Py - Cp diss & film in hornfels (bs-Ad) Cp-Py veinlets (1mm wide) and Mt diss	●						.	●	.			●	
P 11	B3018	706.02	9816.95	Py - Cp diss in melano - di Mo-Cp-Py-Mt diss	●						●	●	.			●		
P 12	C3006	705.43	9817.38	Cp-Py diss & film in hornfels (andesite) Cp-Py-Mo diss 705.43 9817.38	○						.	●	.			●		
P 13	MJE-8 53.8	705.40	9817.17	Cp film in ho-qd Cp veinlets (~5mm wide)	○					.	●	.				●		
P 14	MJE-8 251.1	705.40	9817.17	Cp and Py film & diss in ho-qd Py veinlets (~2mm wide) and Cp, Py, & Mt diss	●						○	●	.			●		
P 15	MJE-9 93.2	705.67	9817.26	Cp & Py diss in ho-qd Cp & Py diss	.					.						●		

● Abundant ○ Common ● A little . Rare
 * Upper row : field occurrence ; lower row : microscopic observation
 Cp : Chalcopyrite Py : Pyrite Mo : Molybdenite Mt : Magnetite
 C : coarse gd : granodiorite qd : quartzdiorite melano : melanocratic
 diss : dissemination

**Table A-3 Assay results of ore samples (geological survey
and drill core)**

Table A-3(1) Assay results of ore samples (geological survey)

(1)

No	Hole No.	Location		Description	Assay Results					
		Coordinates			Au (g/t)	Ag g/t	Cu (%)	Pb (%)	Zn (%)	Mo (%)
		E	N							
1	A3037	709.77	9806.12	C.Py-Q irr V. in st sil horn	Tr	Tr	0.01	0.00	0.00	0.00
2	A3038	709.81	9806.12	C.Py-Q irr V. in st sil horn	Tr	Tr	0.00	0.00	0.01	0.00
3	A3044	707.98	9806.44	C.Py-Q V. in sil c. ho-bt-qd	Tr	Tr	0.08	0.00	0.00	0.00
4	A3045	708.00	9806.48	Cp-Py thin V. in crack of c. ho-bt qd	0.2	13.1	4.89	0.00	0.03	0.00
5	A3047	708.01	9806.52	Cp-Py diss & thin V. in sil c. ho-bt-qd	Tr	Tr	0.03	0.00	0.00	0.00
6	A3048	708.04	9806.56	Cp-Py diss & thin V. in sil c. ho-bt-qd	Tr	Tr	0.55	0.00	0.01	0.00
7	A3054	708.06	9806.62	F.Cp-Py diss & thin V. in sil c. ho-bt-qd	Tr	Tr	0.02	0.00	0.00	0.00
8	A3055	708.08	9806.64	Cp-Py thin V. in sil. c. ho-bt qd	Tr	Tr	0.11	0.00	0.00	0.00
9	B3040	708.40	9804.45	Cp-Py diss & fila in vc. bt-ho qd	Tr	Tr	0.03	0.00	0.00	0.00
10	B3043	708.41	9806.53	Cp-Py diss & fila in vc. bt-ho qd	0.5	4.1	0.41	0.00	0.00	0.01
11	B3044	708.41	9806.55	Q-Vit w/ Cp-Py diss & in bt-ho qd	0.2	6.5	1.18	0.00	0.01	0.01
12	B3064	707.34	9806.02	Py diss & fila in melano di	Tr	Tr	0.04	0.00	0.00	0.00
13	B3075	707.44	9805.82	Py diss & fila in vc. bt-qd	Tr	Tr	0.05	0.00	0.00	0.00
14	C3079	708.84	9807.01	Py-Cp diss in f. Tf	Tr	Tr	0.02	0.00	0.00	0.00
15	C3082	708.27	9806.83	Cp spotted in bt-ho qd	Tr	Tr	0.06	0.00	0.00	0.00
16	PO-01	707.77	9806.46	Py diss & fila in qd	Tr	Tr	0.06	0.00	0.01	0.00
17	PO-02	707.92	9806.47	Py diss & fila in qd	Tr	Tr	0.06	0.00	0.00	0.00
18	PO-03	708.06	9806.46	Py diss & fila in qd	Tr	Tr	0.04	0.00	0.00	0.00
19	PO-04	708.19	9806.46	Cp-Py diss & fila in c. qd	Tr	Tr	0.13	0.00	0.00	0.00
20	PO-05	708.32	9806.48	Cp-Py diss & fila in c. qd	Tr	Tr	0.17	0.00	0.00	0.00
21	A3005	705.49	9817.02	Cp-Py-film & diss in melano ho-qd	Tr	Tr	0.18	0.00	0.00	0.01
22	A3006	705.03	9817.42	Cp-Py(Mo) diss & V.	0.2	6.1	1.38	0.00	0.02	0.08
23	A3007	705.44	9817.04	Cp-Py diss & fila in melano qd & Mac	Tr	3.6	0.71	0.00	0.01	0.01
24	A3012	705.90	9817.10	Cp-Py diss in melano bt-qd	Tr	Tr	0.10	0.00	0.00	0.00
25	A3013	706.05	9817.13	Py-Cp w diss in qd	Tr	Tr	0.11	0.00	0.00	0.00
26	A3014	706.10	9817.13	Cp-Py Mo film & diss in bt-qd	Tr	Tr	0.03	0.00	0.00	0.00
27	A3015	706.19	9817.17	Cp-Py diss & V. in altered Mac.	Tr	Tr	0.03	0.00	0.00	0.00
28	A3021	705.78	9816.94	Cp-Py w. diss in melano qd & Mac.	0.2	2.4	0.53	0.00	0.02	0.00
29	A3022	705.28	9816.96	Cp-Py w. diss in melano qd	Tr	Tr	0.06	0.00	0.01	0.00
30	A3024	705.81	9816.86	Cp-Py w. diss in melano qd	Tr	4.9	0.69	0.00	0.00	0.50
31	A3025	705.83	9816.83	Cp-Py-Mo thin V. & w. diss in melano qd	1.2	5.4	1.06	0.01	0.01	0.00
32	A3027	705.89	9816.80	Py-Mo thin V. (W:ica) in melano qd	Tr	Tr	0.02	0.00	0.00	0.84
33	A3028	706.04	9816.70	Cp-Py diss in melano qd	Tr	Tr	0.03	0.00	0.00	0.00
34	B3002	705.20	9817.22	Py-Cp diss in ho qd	0.1	3.5	0.08	0.01	0.03	0.00
35	B3005	705.16	9817.36	Cp-Py diss & fila in horn (bs-Ad)	0.2	2.5	0.20	0.01	0.03	0.04
36	B3007	705.21	9817.64	Py-Cp diss in horn (bs-Ad)	0.2	7.5	0.78	0.01	0.07	0.00
37	B3008	705.27	9817.90	Py-Cp diss & fila in bt-ho qd	Tr	Tr	0.02	0.00	0.00	0.00
38	B3018	705.99	9816.95	Py-Cp diss in melano di	Tr	Tr	0.20	0.00	0.01	0.06
39	B3022	706.25	9816.86	Py-Cp diss in bt-ho qd	Tr	Tr	0.14	0.00	0.00	0.00
40	B3023	706.27	9816.84	Py-Cp diss in bt-ho qd	Tr	Tr	0.02	0.00	0.00	0.00
41	C3004	705.27	9817.23	Cp-Py(Mo) diss in ho qd	0.1	10.4	0.86	0.00	0.02	0.01
42	C3006	705.43	9817.05	Cp-Py diss & fila in horn (Ad)	0.2	2.1	0.89	0.00	0.00	0.02
43	C3007	705.51	9817.68	Py-Cp diss & fila in ho bt qd	Tr	Tr	0.02	0.00	0.00	0.00
44	C3008	705.55	9817.75	Py-Cp diss & fila in ho bt qd	Tr	Tr	0.02	0.01	0.02	0.00
45	C3009	705.52	9817.19	Green Cu fila in ho qd	Tr	6.1	0.76	0.00	0.02	0.01
46	C3010	705.56	9817.81	Py-Cp diss in ho-bt qd	Tr	Tr	0.03	0.01	0.01	0.00
47	D3002	705.74	9817.77	Py-Cp diss in bt-ho qd	Tr	Tr	0.58	0.00	0.01	0.01
48	D3005	705.46	9817.50	Py-Cp diss in ho-bt qd	Tr	Tr	0.18	0.00	0.00	0.04
49	D3006	705.49	9817.50	Py-Cp diss in ho-bt qd	Tr	Tr	0.17	0.00	0.00	0.00
50	D3011	705.77	9817.56	Py-Cp diss in bt-ho qd	Tr	Tr	0.06	0.00	0.00	0.00
51	PT-01	705.59	9817.29	Py diss in bt-ho qd	Tr	Tr	0.11	0.00	0.01	0.00
52	PT-02	705.91	9817.42	Py diss in bt-ho qd	Tr	Tr	0.06	0.01	0.01	0.00
53	PT-03	706.08	9817.04	Py diss & Vit in bt-ho qd	0.1	1.7	0.07	0.00	0.00	0.00

Table A-3(1) Assay results of ore samples (geological survey)

(2)

No	Hole No.	Location		Description	Assay Results						
		Coordinates			Au (g/t)	Ag g/t	Cu (%)	Pb (%)	Zn (%)	Mo (%)	
		E	N								
54	PT-04	T e r r i b e l s	705.99	9817.13	Py diss & Vlt in bt-ho qd	Tr	Tr	0.06	0.01	0.00	0.00
55	PT-05		705.70	1817.18	Py diss & Vlt in bt-ho qd	Tr	3.7	0.14	0.01	0.02	0.00
56	PT-06		705.90	9816.96	Py diss & Vlt in bt-ho qd	Tr	Tr	0.06	0.00	0.00	0.00
57	PT-07		705.60	9816.70	Py diss & Vlt in bt-ho qd	Tr	Tr	0.09	0.00	0.00	0.00
58	PT-08		706.07	9817.00	Py-Cp diss & film in bt-ho qd	Tr	Tr	0.51	0.00	0.01	0.01
59	PT-09		705.17	9817.11	Py-Cp diss in ho-bt qd	Tr	Tr	0.03	0.00	0.01	0.00
60	PT-10		705.25	9817.50	Py diss in Mac	Tr	Tr	0.08	0.00	0.01	0.00

c. : coarse
 f. : fine
 V. : vein
 Vlt : veinlet
 bt-ho qd : biotite hornblende quartz-diorite
 ho-bt qd : hornblende biotite quartz-diorite
 melano di : melanocratic quartz-diorite
 horn : hornfels
 Ad : andesite
 Tf : tuff
 Py : Pyrite
 Cp : Chalcopyrite
 Mo : Molybdenite

Table A-3(2) Assay results of ore samples (drill core)

(3)

No.	Hole No.	Depth (m)	Assay Results						
			Au (g/t)	Ag g/t	Cu (%)	Pb (%)	Zn (%)	Mo (%)	W (%)
1	MJE-7	231.4 ~ 232.3	Tr	Tr	0.02	0.00	0.01	0.00	0.00
2	MJE-7	234.4 ~ 235.2	Tr	Tr	0.01	0.00	0.01	0.00	0.00
3	MJE-7	236.4 ~ 236.9	Tr	Tr	0.18	0.00	0.01	0.00	0.00
4	MJE-7	237.7 ~ 237.9	Tr	0.2	0.08	0.00	0.01	0.00	0.00
5	MJE-7	246.0 ~ 246.8	Tr	Tr	0.03	0.00	0.01	0.00	0.00
6	MJE-7	248.0 ~ 248.2	Tr	Tr	0.03	0.00	0.01	0.00	0.00
7	MJE-7	248.4 ~ 248.6	Tr	Tr	0.03	0.00	0.01	0.00	0.01
8	MJE-7	253.6 ~ 253.9	Tr	Tr	0.02	0.00	0.01	0.00	0.00
9	MJE-7	258.0 ~ 259.0	Tr	Tr	0.01	0.00	0.01	0.00	0.00
10	MJE-7	260.7 ~ 261.3	Tr	Tr	0.06	0.00	0.01	0.00	0.00
11	MJE-7	261.4 ~ 261.8	Tr	0.9	0.16	0.00	0.01	0.00	0.00
12	MJE-7	263.8 ~ 264.3	Tr	Tr	0.14	0.00	0.01	0.00	0.00
13	MJE-7	267.9 ~ 268.4	Tr	Tr	0.02	0.00	0.01	0.00	0.00
14	MJE-7	270.4 ~ 270.9	Tr	Tr	0.01	0.00	0.01	0.00	0.00
15	MJE-7	275.4 ~ 275.9	Tr	1.2	0.03	0.00	0.01	0.00	0.00
16	MJE-7	279.4 ~ 279.9	Tr	Tr	0.05	0.00	0.01	0.00	0.00
17	MJE-7	282.4 ~ 282.9	Tr	Tr	0.10	0.00	0.01	0.00	0.00
18	MJE-7	286.4 ~ 286.9	Tr	Tr	0.04	0.00	0.01	0.00	0.00
19	MJE-7	301.9 ~ 302.9	Tr	Tr	0.01	0.00	0.01	0.00	0.00
20	MJE-8	21.0 ~ 24.0	Tr	3.0	0.28	0.00	0.01	0.00	0.00
21	MJE-8	24.0 ~ 26.0	0.1	1.3	0.16	0.00	0.00	0.00	0.00
22	MJE-8	26.0 ~ 28.0	Tr	1.0	0.18	0.00	0.01	0.00	0.00
23	MJE-8	28.0 ~ 30.0	0.1	2.4	0.45	0.00	0.00	0.00	0.00
24	MJE-8	30.0 ~ 32.0	Tr	Tr	0.16	0.00	0.00	0.00	0.00
25	MJE-8	32.0 ~ 34.0	Tr	2.0	0.26	0.00	0.00	0.01	0.00
26	MJE-8	36.0 ~ 38.0	Tr	1.2	0.09	0.00	0.01	0.00	0.00
27	MJE-8	40.0 ~ 42.0	Tr	Tr	0.24	0.00	0.00	0.00	0.00
28	MJE-8	44.0 ~ 46.0	Tr	1.3	0.36	0.00	0.01	0.01	0.00
29	MJE-8	48.0 ~ 50.0	Tr	Tr	0.41	0.00	0.01	0.01	0.00
30	MJE-8	52.0 ~ 54.0	Tr	Tr	0.52	0.00	0.00	0.06	0.00
31	MJE-8	55.0 ~ 56.0	Tr	1.3	0.25	0.00	0.00	0.04	0.00
32	MJE-8	56.0 ~ 58.0	0.1	1.4	0.36	0.00	0.00	0.02	0.00
33	MJE-8	60.0 ~ 62.0	0.2	1.5	0.43	0.00	0.00	0.12	0.00
34	MJE-8	63.0 ~ 64.0	Tr	6.0	0.72	0.00	0.03	0.25	0.00
35	MJE-8	64.0 ~ 66.0	Tr	2.4	0.47	0.00	0.01	0.05	0.00
36	MJE-8	67.0 ~ 69.0	Tr	Tr	0.43	0.00	0.00	0.05	0.00
37	MJE-8	71.0 ~ 73.0	Tr	1.4	0.25	0.00	0.00	0.02	0.00
38	MJE-8	75.0 ~ 77.0	Tr	Tr	0.02	0.00	0.00	0.02	0.00
39	MJE-8	80.0 ~ 81.2	Tr	Tr	0.16	0.00	0.01	0.01	0.00
40	MJE-8	82.3 ~ 84.6	Tr	Tr	0.08	0.00	0.00	0.00	0.00
41	MJE-8	88.0 ~ 89.6	Tr	Tr	0.06	0.00	0.00	0.00	0.00
42	MJE-8	92.0 ~ 94.0	Tr	2.5	0.39	0.00	0.01	0.03	0.00
43	MJE-8	96.0 ~ 98.0	0.1	3.1	0.23	0.02	0.05	0.01	0.00
44	MJE-8	100.0 ~ 102.0	Tr	1.7	0.13	0.01	0.02	0.00	0.00
45	MJE-8	104.0 ~ 106.0	Tr	Tr	0.03	0.00	0.00	0.00	0.00
46	MJE-8	108.0 ~ 110.0	Tr	2.0	0.29	0.00	0.01	0.01	0.00
47	MJE-8	112.0 ~ 114.0	Tr	Tr	0.04	0.00	0.00	0.00	0.00
48	MJE-8	116.0 ~ 118.0	Tr	0.9	0.13	0.00	0.00	0.01	0.00
49	MJE-8	120.0 ~ 122.0	Tr	Tr	0.08	0.00	0.00	0.00	0.00
50	MJE-8	124.0 ~ 126.0	Tr	Tr	0.11	0.00	0.00	0.01	0.00
51	MJE-8	128.0 ~ 130.0	Tr	Tr	0.12	0.00	0.00	0.00	0.00
52	MJE-8	132.0 ~ 134.0	Tr	Tr	0.06	0.00	0.00	0.00	0.00
53	MJE-8	136.0 ~ 138.0	Tr	Tr	0.08	0.00	0.00	0.00	0.00

Table A-3(2) Assay results of ore samples (drill core)

(4)

No.	Hole No.	Depth (m)	Assay Results						
			Au (g/t)	Ag g/t	Cu (%)	Pb (%)	Zn (%)	Mo (%)	W (%)
54	MJE-8	140.0 ~ 142.0	Tr	Tr	0.05	0.00	0.01	0.00	0.00
55	MJE-8	144.0 ~ 146.0	Tr	Tr	0.05	0.00	0.00	0.00	0.00
56	MJE-8	148.0 ~ 150.0	Tr	Tr	0.03	0.00	0.01	0.00	0.00
57	MJE-8	155.0 ~ 157.0	Tr	Tr	0.02	0.00	0.00	0.00	0.00
58	MJE-8	160.0 ~ 162.0	Tr	Tr	0.04	0.00	0.00	0.00	0.00
59	MJE-8	165.0 ~ 167.0	Tr	1.8	0.05	0.00	0.00	0.00	0.00
60	MJE-8	170.0 ~ 172.0	Tr	Tr	0.38	0.00	0.01	0.02	0.00
61	MJE-8	175.0 ~ 177.0	Tr	Tr	0.07	0.00	0.00	0.01	0.00
62	MJE-8	180.0 ~ 182.0	Tr	Tr	0.01	0.00	0.01	0.00	0.00
63	MJE-8	185.0 ~ 187.0	Tr	Tr	0.03	0.00	0.00	0.02	0.00
64	MJE-8	190.0 ~ 192.0	Tr	Tr	0.05	0.00	0.01	0.01	0.00
65	MJE-8	195.0 ~ 197.0	Tr	Tr	0.04	0.00	0.00	0.01	0.00
66	MJE-8	200.0 ~ 202.0	Tr	Tr	0.03	0.00	0.00	0.08	0.00
67	MJE-8	205.0 ~ 207.0	Tr	Tr	0.03	0.00	0.00	0.00	0.00
68	MJE-8	210.0 ~ 212.0	Tr	Tr	0.06	0.00	0.01	0.01	0.00
69	MJE-8	215.0 ~ 217.0	Tr	Tr	0.03	0.00	0.00	0.00	0.00
70	MJE-8	220.0 ~ 222.0	Tr	Tr	0.03	0.00	0.01	0.00	0.00
71	MJE-8	225.0 ~ 227.0	Tr	Tr	0.08	0.01	0.02	0.00	0.00
72	MJE-8	230.0 ~ 232.0	Tr	Tr	0.03	0.00	0.00	0.00	0.00
73	MJE-8	235.0 ~ 236.0	Tr	Tr	0.03	0.00	0.01	0.00	0.00
74	MJE-8	240.0 ~ 241.0	Tr	1.1	0.05	0.01	0.05	0.00	0.00
75	MJE-8	245.0 ~ 246.0	Tr	Tr	0.02	0.00	0.01	0.00	0.00
76	MJE-8	250.0 ~ 251.0	Tr	1.5	0.07	0.01	0.03	0.00	0.00
77	MJE-8	255.0 ~ 256.0	Tr	1.6	0.04	0.00	0.02	0.00	0.00
78	MJE-8	260.0 ~ 261.0	Tr	Tr	0.08	0.00	0.01	0.00	0.00
79	MJE-8	270.0 ~ 271.0	Tr	Tr	0.02	0.00	0.00	0.00	0.00
80	MJE-8	280.0 ~ 281.0	Tr	Tr	0.04	0.00	0.00	0.00	0.00
81	MJE-8	290.0 ~ 291.0	Tr	Tr	0.04	0.00	0.00	0.00	0.00
82	MJE-8	300.0 ~ 301.0	Tr	1.8	0.07	0.00	0.12	0.00	0.00
83	MJE-9	28.0 ~ 29.0	Tr	Tr	0.09	0.00	0.00	0.01	0.00
84	MJE-9	36.0 ~ 37.0	Tr	1.0	0.19	0.00	0.00	0.00	0.00
85	MJE-9	44.0 ~ 45.0	Tr	Tr	0.01	0.00	0.00	0.06	0.00
86	MJE-9	52.0 ~ 53.0	Tr	Tr	0.12	0.00	0.00	0.00	0.00
87	MJE-9	60.0 ~ 61.0	0.1	5.4	0.09	0.00	0.00	0.01	0.00
88	MJE-9	64.0 ~ 65.0	Tr	1.0	0.09	0.00	0.01	0.01	0.00
89	MJE-9	68.0 ~ 69.0	Tr	Tr	0.08	0.00	0.01	0.03	0.00
90	MJE-9	72.0 ~ 73.0	Tr	Tr	0.02	0.00	0.00	0.00	0.00
91	MJE-9	76.0 ~ 77.0	Tr	Tr	0.09	0.00	0.01	0.01	0.00
92	MJE-9	80.0 ~ 81.0	Tr	Tr	0.31	0.00	0.01	0.06	0.00
93	MJE-9	84.0 ~ 85.0	Tr	Tr	0.26	0.00	0.01	0.00	0.00
94	MJE-9	88.0 ~ 89.0	Tr	Tr	0.10	0.00	0.01	0.00	0.00
95	MJE-9	92.0 ~ 93.0	Tr	2.0	0.17	0.00	0.01	0.00	0.00
96	MJE-9	96.0 ~ 97.0	Tr	Tr	0.17	0.00	0.00	0.00	0.00
97	MJE-9	100.0 ~ 101.0	Tr	Tr	0.26	0.00	0.00	0.00	0.00
98	MJE-9	104.0 ~ 105.0	Tr	2.6	0.33	0.00	0.01	0.01	0.00
99	MJE-9	108.0 ~ 109.0	Tr	Tr	0.04	0.00	0.00	0.00	0.00
100	MJE-9	112.0 ~ 113.0	Tr	Tr	0.04	0.00	0.01	0.00	0.00
101	MJE-9	116.0 ~ 117.0	Tr	1.0	0.17	0.00	0.01	0.00	0.00
102	MJE-9	120.0 ~ 121.0	Tr	Tr	0.06	0.00	0.01	0.00	0.00
103	MJE-9	124.0 ~ 125.0	Tr	Tr	0.13	0.00	0.01	0.00	0.00
104	MJE-9	128.0 ~ 129.0	Tr	3.4	0.34	0.00	0.01	0.01	0.00
105	MJE-9	132.0 ~ 133.0	Tr	2.0	0.28	0.00	0.01	0.01	0.00
106	MJE-9	136.0 ~ 137.0	Tr	1.1	0.11	0.00	0.01	0.01	0.00

Table A-3(2) Assay results of ore samples (drill core)

(5)

No.	Hole No.	Depth (m)	Assay Results						
			Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)	Mo (%)	W (%)
107	MJE-9	140.0 ~ 141.0	Tr	Tr	0.09	0.00	0.02	0.01	0.00
108	MJE-9	144.0 ~ 145.0	Tr	Tr	0.10	0.01	0.01	0.01	0.00
109	MJE-9	148.0 ~ 149.0	Tr	Tr	0.08	0.00	0.02	0.02	0.00
110	MJE-9	152.0 ~ 153.0	Tr	2.0	0.22	0.00	0.01	0.02	0.00
111	MJE-9	156.0 ~ 157.0	Tr	0.1	0.17	0.00	0.01	0.02	0.00
112	MJE-9	160.0 ~ 161.0	Tr	4.7	0.55	0.00	0.01	0.02	0.00
113	MJE-9	164.0 ~ 165.0	Tr	Tr	0.04	0.00	0.01	0.02	0.00
114	MJE-9	168.0 ~ 169.0	Tr	Tr	0.02	0.00	0.00	0.01	0.00
115	MJE-9	172.0 ~ 173.0	Tr	Tr	0.01	0.00	0.00	0.02	0.00
116	MJE-9	176.0 ~ 177.0	Tr	Tr	0.02	0.00	0.01	0.01	0.00
117	MJE-9	180.0 ~ 181.0	Tr	Tr	0.02	0.00	0.00	0.02	0.00
118	MJE-9	188.0 ~ 189.0	Tr	Tr	0.00	0.00	0.00	0.00	0.00
119	MJE-9	196.0 ~ 197.0	Tr	Tr	0.01	0.00	0.00	0.00	0.00
120	MJE-9	204.0 ~ 205.0	Tr	Tr	0.01	0.00	0.00	0.01	0.00

Table A-4 Results of X-ray diffractive analysis

Results of X-ray diffractive analysis

No.	Sample No.	Location		Geological Unit**	Rock Name	Minerals																								
		Coordinates				Quartz	Plagioclase	Potash-feldspar	Kornbrende	Diopside	Hedenbergite	Grossular	Andradite	Prehnite	Epidote	Sphene	Calcite	Rhodocrosite	Biotite	Sericite	Chlorite	Maline	Kontwarillonite	Pyrophyllite	Laumontite	Stilbite	Epistilbite	Pyrite	Chalcopyrite	Molybdenite
		E	N																											
1	A3038	709.81	9806.12	ATf	St. sil. Tf(horn)	●	○																							
2	A3048	708.04	9806.56	Gd	(Ho)-bl-qd	●	○									○		●								●	●			
3	B3043	708.41	9806.53	Gd	V.c.bl-qd	●	○	●								○														
4	B3045	708.46	9806.62	Gd	V.c.bl-qd	●	○	○								○		●												
5	C3070	709.37	9806.40	ATf	St. sil rock	●	○																							
6	PO-01	707.77	9806.46	Gd	Bl-qd	○	○	●										●												
7	PO-02	707.92	9806.47	Gd	Bl-qd	○	●	●											●											
8	PO-03	708.06	9806.46	Gd	Bl-qd	○	○	○																						
9	PO-04	708.19	9806.46	Gd	Bl-qd																									
10	PO-05	708.32	9806.48	Gd	Bl-qd	●	○	●																						
11	A3003	705.01	9817.29	An	Ad	●	●	○																						
12	A3006	705.03	9817.42	An	Ad		●		●	●																				
13	A3007	705.44	9817.04	Di	Melano-dio	○	○												●											
14	A3014	706.10	9817.13	Qd	Bl-qd	●	●	●																						
15	A3016	706.21	9817.18	Di	Melano-dio	○	●												●	●					●	●				
16	A3022	705.28	9816.96	Qd	Bl-qd	●	○	○											●											
17	B3028	706.04	9816.70	An	Melano-dio	●	○	●										●							●					
18	B3003	705.17	9817.34	HQd	Ho-bl-qd	●	○												●	○										
19	C3005	705.41	9817.14	An	Bs-Ad(horn)	●	○	●											○											
20	C3001	705.03	9817.50	HQd	Ho-bl-qd	●	○	●																						

●>○>●>●>●

* 1 Unit corresponding to those used in Geological Map

ATf : Tuffaceous part of Macuchi Formation
Tf : Tuffaceous part of Macuchi Formation
An : Andesitic part of Macuchi Formation
Gd : Granodiorite
Qd : Quartzdiorite
Di : Melanoctatic quartz diorite
HQd : Hornblende - quartzdiorite
CQd : Coarse quartzdiorite

Results of X-ray diffractive analysis

No.	Sample No.	Location		Geological Unit**	Rock Name	Minerals																								
		Coordinates				Quartz	Plagioclase	Potash-feldspar	Hornblende	Dioptase	Hedenbergite	Grossular	Andradite	Premite	Epidote	Spinel	Calcite	Rhodocrosite	Biotite	Sericite	Chlorite	Kaline	Montmorillonite	Pyrophyllite	Laumontite	Stilbite	Epsilbite	Pyrite	Chalcopyrite	Molybdenite
		E	N																											
41	MJE-7 030.0	707.88	9805.68	ABT	Sil-ftf	●																								
42	MJE-7 060.0	707.88	9805.68	ABT	Sil-ftf		●	○	●																					
43	MJE-7 090.0	707.88	9805.68	ABT	Sil-ftf					○																				
44	MJE-7 135.0	707.88	9805.68	AAAn	Ad(horn)	○	●		●									●												
45	MJE-7 150.2	707.88	9805.68	AAAn	Ad(horn)	●	○	○	○																					
46	MJE-7 180.0	707.88	9805.68	AAAn	Ad(horn)	●	●		○									○		●										
47	MJE-7 210.0	707.88	9805.68	AAAn	Ad(horn)	●	●		○									○												
48	MJE-7 240.0	707.88	9805.68	AAAn	Ad(horn)	●	●		○									○												
49	MJE-7 270.9	707.88	9805.68	AAAn	Ad(horn)		●		○									○		●										
50	MJE-7 300.0	707.88	9805.68	AAAn	Ad(horn)	○	●		○									○												
51	MJE-8 026.0	705.40	9817.17	HQd	Ho-Bi-qd	●	○														○									
52	MJE-8 068.0	705.40	9817.17	HQd	Ho-Bi-qd	●	●	●													●		●							
53	MJE-8 109.0	705.40	9817.17	HQd	Ho-Bi-qd	●	○	●	●																					
54	MJE-8 160.0	705.40	9817.17	HQd	Ho-Bi-qd	●														●			○	○	●		●			
55	MJE-8 210.5	705.40	9817.17	HQd	Ho-Bi-qd	●	●												●		●									
56	MJE-8 268.5	705.40	9817.17	HQd	Ho-Bi-qd	●														●		○		○						
57	MJE-8 029.0	705.67	9817.26	Qd	Bi-qd	●	●											○		●										
58	MJE-9 049.0	705.67	9817.26	Qd	Bi-qd	●	●											○		●										
59	MJE-9 089.0	705.67	9817.26	HQd	Ho-bi-qd	●	○													●		●		○	○	●				
60	MJE-9 178.0	705.67	9817.26	HQd	Ho-bi-qd	●	●													●		●								

●>○>○>●

* 1 Unit corresponding to those used in Geological Map

- ATf : Tuffaceous part of Macuchi Formation
- Tf : Tuffaceous part of Macuchi Formation
- An : Andesitic part of Macuchi Formation
- Gd : Granodiorite
- Qd : Quartzdiorite
- Di : Melanocratic quartz diorite
- HQd : Hornblende - quartzdiorite
- CQd : Coarse quartzdiorite

Table A-5 Lists of measured value of IP survey

測定値一覧表 (1/6) 測線 T 1

P1-P2	C1-C2	n	I (A)	V (mV)	$\rho - a$ ($\Omega - m$)	FE (%)	Tc	$\rho - ac$ ($\Omega - m$)
0-2	4-6	1	1.00	1210.00	2280.0	5.5	1.063	2425.0
0-2	6-8	2	1.00	105.00	792.0	4.6	2.631	2084.0
0-2	8-10	3	1.00	66.50	1254.0	4.5	1.587	1990.0
0-2	10-12	4	1.20	28.40	892.0	3.4	1.282	1143.0
0-2	12-14	5	1.00	12.80	844.0	4.0	1.754	1480.0
2-4	6-8	1	1.00	398.00	750.0	4.3	2.439	1829.0
2-4	8-10	2	1.00	222.00	1674.0	4.5	1.266	2119.0
2-4	10-12	3	1.20	66.20	1040.0	5.1	0.980	1019.0
2-4	12-14	4	1.00	29.40	1108.0	5.8	1.370	1517.0
2-4	14-16	5	1.00	12.80	844.0	6.4	1.515	1278.0
4-6	8-10	1	1.00	1330.00	2507.0	6.3	0.658	1649.0
4-6	10-12	2	1.20	258.00	1621.0	3.2	0.559	905.0
4-6	12-14	3	1.00	81.10	1529.0	12.1	0.826	1263.0
4-6	14-16	4	1.00	44.70	1684.0	-3.4	0.917	1545.0
4-6	16-18	5	1.00	7.34	484.0	8.1	1.190	576.0
6-8	10-12	1	1.20	225.00	353.0	4.6	1.695	598.0
6-8	12-14	2	1.00	55.50	419.0	6.2	2.174	910.0
6-8	14-16	3	1.20	41.60	654.0	-1.8	2.326	1520.0
6-8	16-18	4	1.50	19.60	493.0	-5.0	2.857	1408.0
6-8	18-20	5	1.50	9.02	397.0	6.6	1.818	722.0
8-10	12-14	1	1.00	368.00	694.0	6.3	1.351	938.0
8-10	14-16	2	1.00	77.90	587.0	7.7	1.316	772.0
8-10	16-18	3	1.00	18.30	345.0	5.9	1.539	530.0
8-10	18-20	4	1.50	22.30	561.0	7.5	0.990	555.0
8-10	20-22	5	1.50	13.00	572.0	6.4	0.962	550.0
10-12	14-16	1	1.00	417.00	786.0	7.3	1.124	883.0
10-12	16-18	2	1.00	78.20	590.0	6.0	1.177	694.0
10-12	18-20	3	1.50	60.90	765.0	7.0	0.752	575.0
10-12	20-22	4	1.50	48.40	1217.0	5.6	0.730	888.0
10-12	22-24	5	1.50	40.00	1759.0	4.8	0.433	761.0
12-14	16-18	1	1.00	211.00	398.0	8.3	1.316	523.0
12-14	18-20	2	1.50	157.00	789.0	6.8	0.794	626.0
12-14	20-22	3	1.50	76.40	960.0	3.1	0.800	768.0
12-14	22-24	4	1.50	64.50	1621.0	6.5	0.524	849.0
12-14	24-26	5	1.50	35.10	1544.0	4.8	0.435	671.0
14-16	18-20	1	1.50	778.00	978.0	6.0	0.725	709.0
14-16	20-22	2	1.50	169.00	850.0	6.5	0.787	669.0
14-16	22-24	3	1.50	124.00	1558.0	5.5	0.568	885.0
14-16	24-26	4	1.50	46.80	1176.0	7.8	0.524	616.0
14-16	26-28	5	1.50	9.58	421.0	3.2	1.333	561.0
20-22	16-18	1	1.00	166.00	313.0	7.8	1.667	521.0
22-24	18-20	1	1.50	958.00	1204.0	6.1	0.775	933.0
22-24	16-18	2	1.00	89.50	675.0	8.8	1.053	711.0
24-26	20-22	1	1.50	455.00	572.0	7.3	1.409	806.0
24-26	18-20	2	1.50	194.00	975.0	8.4	0.794	774.0
24-26	16-18	3	1.00	28.70	541.0	8.7	1.020	552.0
26-28	22-24	1	1.50	135.00	170.0	3.0	2.439	415.0
26-28	20-22	2	1.50	39.90	201.0	7.0	3.030	609.0
26-28	18-20	3	1.50	22.80	287.0	7.8	2.000	574.0
26-28	16-18	4	1.00	4.32	163.0	7.7	2.564	418.0
28-30	24-26	1	1.50	718.00	902.0	6.2	0.680	614.0
28-30	22-24	2	1.50	67.00	337.0	6.3	1.515	511.0
28-30	20-22	3	1.50	23.60	297.0	7.3	2.273	675.0
28-30	18-20	4	1.50	15.70	395.0	7.3	1.613	637.0
28-30	16-18	5	1.00	2.75	181.0	12.0	2.083	377.0
30-32	26-28	1	1.50	381.00	479.0	6.0	1.282	614.0
30-32	24-26	2	1.50	175.00	880.0	7.5	0.588	518.0
30-32	22-24	3	1.50	31.40	395.0	6.5	1.177	464.0
30-32	20-22	4	1.50	12.80	322.0	6.6	1.887	607.0
30-32	18-20	5	1.50	9.42	414.0	7.9	1.389	575.0

測定値一覽表 (2/6) 測線 T 2

P1-P2	C1-C2	n	I (A)	V (mV)	$\rho - a$ ($\Omega - m$)	FE (%)	Tc	$\rho - ac$ ($\Omega - m$)
0-2	4-6	1	0.75	1250.00	3141.0	3.5	0.488	1532.0
0-2	6-8	2	0.80	488.00	4599.0	4.4	0.463	2129.0
0-2	8-10	3	1.00	81.10	1529.0	5.6	0.794	1213.0
0-2	10-12	4	1.50	69.60	1749.0	4.4	0.855	1495.0
0-2	12-14	5	1.50	36.80	1619.0	4.6	0.926	1499.0
2-4	6-8	1	0.80	365.00	860.0	4.0	1.429	1229.0
2-4	8-10	2	1.00	36.40	275.0	5.0	2.381	655.0
2-4	10-12	3	1.50	27.00	339.0	5.6	2.500	848.0
2-4	12-14	4	1.50	13.80	347.0	5.0	2.632	913.0
2-4	14-16	5	1.50	4.84	213.0	4.5	3.704	789.0
4-6	8-10	1	1.00	124.00	234.0	5.5	1.923	450.0
4-6	10-12	2	1.50	67.40	339.0	5.0	1.667	565.0
4-6	12-14	3	1.50	28.70	361.0	5.6	1.639	592.0
4-6	14-16	4	1.50	9.78	246.0	6.1	2.273	559.0
4-6	16-18	5	1.70	4.76	185.0	4.6	3.448	638.0
6-8	10-12	1	1.50	629.00	790.0	6.2	1.000	790.0
6-8	12-14	2	1.50	173.00	870.0	5.4	0.877	763.0
6-8	14-16	3	1.50	99.90	1255.0	4.8	1.220	1531.0
6-8	16-18	4	1.70	76.50	1697.0	3.0	1.786	3030.0
8-10	12-14	1	1.50	194.00	244.0	4.5	1.333	325.0
8-10	14-16	2	1.50	39.10	197.0	3.9	1.587	313.0
8-10	16-18	3	1.50	16.10	202.0	5.1	2.222	449.0
8-10	20-22	5	1.70	26.10	1013.0	3.8	0.621	629.0
10-12	14-16	1	1.50	318.00	400.0	4.9	1.316	526.0
10-12	16-18	2	1.50	75.40	379.0	5.3	1.613	611.0
12-14	16-18	1	1.50	231.00	290.0	3.0	1.333	387.0
18-20	14-16	1	1.50	445.00	559.0	2.5	0.540	302.0
18-20	12-14	2	1.50	215.00	1081.0	4.2	0.565	611.0
18-20	10-12	3	1.50	74.40	935.0	5.2	0.704	658.0
18-20	8-10	4	1.00	13.10	494.0	4.8	0.962	475.0
18-20	6-08	5	0.80	14.80	1220.0	6.1	0.800	978.0
20-22	16-18	1	1.50	259.00	326.0	4.0	1.539	502.0
20-22	14-16	2	1.50	152.00	764.0	3.5	0.637	487.0
20-22	12-14	3	1.50	115.00	1445.0	3.1	0.461	665.0
20-22	10-12	4	1.50	55.30	1390.0	2.6	0.488	678.0
22-24	18-20	1	1.50	247.00	310.0	7.5	1.429	443.0
22-24	16-18	2	1.50	39.30	198.0	5.1	1.961	388.0
22-24	14-16	3	1.50	37.10	466.0	4.5	0.893	416.0
22-24	12-14	4	1.50	39.30	988.0	-2.0	0.571	565.0
22-24	10-12	5	1.50	25.60	1126.0	8.0	0.546	615.0
24-26	20-22	1	1.50	304.00	382.0	6.1	1.053	402.0
24-26	18-20	2	1.50	35.30	177.0	8.4	1.333	236.0
24-26	16-18	3	1.50	10.50	132.0	10.1	2.174	287.0
24-26	14-16	4	1.50	22.00	553.0	9.8	1.042	576.0
24-26	12-14	5	1.50	19.30	849.0	10.2	0.645	548.0
26-28	22-24	1	0.75	77.90	196.0	4.2	1.266	248.0
26-28	20-22	2	1.50	26.70	134.0	8.3	1.191	160.0
26-28	18-20	3	1.50	6.45	81.1	8.1	1.667	135.0
26-28	16-18	4	1.50	1.20	30.2	10.4	2.778	83.3
26-28	14-16	5	1.50	1.53	67.3	12.0	1.370	92.2
28-30	24-26	1	0.75	92.80	233.0	5.5	1.136	265.0
28-30	22-24	2	0.75	36.80	370.0	8.6	1.205	446.0
28-30	20-22	3	1.50	17.20	216.0	10.7	1.266	273.0
28-30	18-20	4	1.50	4.24	107.0	8.3	1.786	191.0
28-30	16-18	5	1.50	0.00	0.0	-99.9	3.276	0.0
30-32	26-28	1	1.00	215.00	405.0	7.6	1.191	483.0
30-32	24-26	2	0.75	31.10	313.0	8.2	1.163	364.0
30-32	22-24	3	0.75	14.10	354.0	9.4	1.316	466.0
30-32	20-22	4	1.50	8.74	220.0	8.6	1.409	310.0
30-32	18-20	5	1.50	2.64	116.0	9.5	2.041	237.0

測定値一覽表 (3 / 6) 測線 T 3

P1-P2	C1-C2	n	I (A)	V (mV)	$\rho - a$ ($\Omega - m$)	FE (%)	Tc	$\rho - ac$ ($\Omega - m$)
0-2	4-6	1	1.00	355.00	669.0	2.4	1.031	690.0
0-2	6-8	2	1.00	59.70	450.0	3.8	3.030	1364.0
0-2	8-10	3	1.00	17.00	321.0	2.3	1.235	396.0
0-2	10-12	4	1.00	15.70	592.0	2.2	0.775	459.0
0-2	12-14	5	1.00	5.25	346.0	2.5	1.205	417.0
2-4	6-8	1	1.00	165.00	311.0	3.8	3.122	972.0
2-4	8-10	2	1.00	38.80	293.0	2.3	1.064	312.0
2-4	10-12	3	1.00	30.80	581.0	3.2	0.685	398.0
2-4	12-14	4	1.00	8.93	337.0	4.3	1.075	362.0
2-4	14-16	5	1.00	1.87	123.0	3.8	2.703	332.0
4-6	8-10	1	1.00	552.00	1040.0	2.1	0.490	510.0
4-6	10-12	2	1.00	232.00	1749.0	2.8	0.435	761.0
4-6	12-14	3	1.00	56.80	1071.0	3.0	0.769	824.0
4-6	14-16	4	1.00	14.00	528.0	3.5	1.923	1015.0
4-6	16-18	5	1.00	13.10	864.0	3.2	1.149	993.0
6-8	10-12	1	1.00	149.00	281.0	2.3	1.370	385.0
6-8	12-14	2	1.00	26.30	198.0	5.3	2.440	483.0
6-8	14-16	3	1.00	6.13	116.0	7.2	5.882	682.0
6-8	16-18	4	1.00	4.40	166.0	9.6	3.448	572.0
6-8	18-20	5	0.70	3.50	329.0	9.5	1.667	550.0
8-10	12-14	1	1.00	51.70	97.5	2.7	1.923	187.0
8-10	14-16	2	1.00	11.50	86.7	3.1	3.704	321.0
8-10	16-18	3	1.00	3.12	58.8	4.2	2.000	118.0
8-10	18-20	4	0.70	7.12	384.0	3.0	0.935	359.0
10-12	14-16	1	1.00	102.00	192.0	2.1	1.887	362.0
10-12	16-18	2	1.00	49.40	373.0	4.3	0.877	327.0
10-12	18-20	3	0.70	25.60	689.0	3.4	0.437	301.0
12-14	16-18	1	1.00	379.00	714.0	3.8	0.575	411.0
12-14	18-20	2	0.50	62.60	944.0	2.7	0.417	393.0
18-20	14-16	1	1.00	212.00	400.0	3.6	1.099	440.0
20-22	16-18	1	1.00	72.20	136.0	8.0	1.786	243.0
20-22	14-16	2	1.00	23.10	174.0	8.1	1.724	300.0
20-22	12-14	3	1.00	21.60	407.0	10.1	0.625	254.0
20-22	10-12	4	1.00	14.70	554.0	-2.5	0.526	292.0
20-22	8-10	5	1.00	2.35	155.0	5.4	1.042	162.0
22-24	18-20	1	0.70	54.80	148.0	2.8	1.099	163.0
22-24	16-18	2	1.00	12.20	92.0	6.2	1.852	170.0
22-24	14-16	3	1.00	7.20	136.0	7.1	2.222	302.0
22-24	12-14	4	1.00	6.97	263.0	8.0	0.794	209.0
22-24	10-12	5	1.00	4.24	280.0	4.4	0.633	177.0
24-26	20-22	1	0.70	95.20	256.0	8.0	1.205	309.0
24-26	18-20	2	0.70	18.10	195.0	10.8	1.191	232.0
24-26	16-18	3	1.00	5.39	102.0	9.5	2.222	227.0
24-26	14-16	4	1.00	2.66	100.0	9.9	2.857	286.0
24-26	12-14	5	1.00	3.72	246.0	8.8	1.031	253.0
26-28	22-24	1	1.00	158.00	298.0	8.0	0.990	295.0
26-28	20-22	2	0.70	23.30	251.0	10.0	1.000	251.0
26-28	18-20	3	0.50	7.83	295.0	7.8	1.042	307.0
26-28	16-18	4	1.00	3.62	137.0	5.4	2.000	274.0
26-28	14-16	5	1.50	4.24	187.0	4.4	2.632	492.0
28-30	24-26	1	1.00	65.00	123.0	8.8	1.042	128.0
28-30	22-24	2	1.00	16.90	127.0	8.8	0.769	99.7
28-30	20-22	3	0.50	3.13	118.0	9.8	0.769	90.8
28-30	18-20	4	0.50	2.74	207.0	6.4	0.787	163.0
28-30	16-18	5	1.00	1.04	68.6	5.3	1.539	106.0
30-32	26-28	1	1.00	52.00	98.0	11.4	1.370	134.0
30-32	24-26	2	1.00	22.40	169.0	10.0	1.220	206.0
30-32	22-24	3	1.20	10.50	165.0	9.4	0.935	154.0
30-32	20-22	4	0.50	2.40	181.0	10.1	0.885	160.0
30-32	18-20	5	0.50	1.23	162.0	10.5	0.877	142.0

測定値一覧表(4/6) 測線 T4

P1-P2	C1-C2	n	I (A)	V (mV)	ρ -a (Ω -m)	FE (%)	Tc	ρ -ac (Ω -m)
0-2	4-6	1	1.00	101.00	190.0	1.2	0.971	185.1
0-2	6-8	2	1.00	19.00	143.0	0.8	1.961	280.0
0-2	8-10	3	1.20	12.20	191.0	1.1	1.010	193.0
0-2	10-12	4	1.50	11.00	277.0	1.3	1.042	289.0
0-2	12-14	5	1.50	7.48	329.0	2.0	1.111	366.0
2-4	6-8	1	1.00	78.80	149.0	1.6	2.174	324.0
2-4	8-10	2	1.00	29.90	225.0	-1.1	0.952	214.0
2-4	10-12	3	1.50	26.30	331.0	2.6	0.990	328.0
2-4	12-14	4	1.50	17.80	447.0	2.7	1.042	466.0
2-4	14-16	5	1.50	34.00	1495.0	5.4	0.615	917.0
4-6	8-10	1	1.20	174.00	273.0	1.5	0.439	120.0
4-6	10-12	2	1.50	102.00	513.0	-0.3	0.671	344.0
4-6	12-14	3	1.50	56.20	706.0	3.5	0.746	527.0
4-6	14-16	4	1.50	111.00	2790.0	1.2	0.465	1297.0
4-6	16-18	5	1.50	23.90	1051.0	2.8	0.758	796.0
6-8	10-12	1	1.50	122.00	153.0	1.2	1.563	239.0
6-8	12-14	2	1.50	33.80	170.0	6.3	1.587	270.0
6-8	14-16	3	1.50	105.00	1320.0	4.8	1.031	1361.0
6-8	16-18	4	1.50	23.90	601.0	4.2	1.695	1019.0
6-8	18-20	5	1.50	25.30	1113.0	2.9	2.439	2715.0
8-10	12-14	1	1.50	187.00	235.0	0.9	1.099	258.0
8-10	14-16	2	1.00	129.00	973.0	4.5	0.690	671.0
8-10	16-18	3	1.00	35.60	671.0	4.2	1.177	789.0
8-10	18-20	4	1.50	81.80	2056.0	2.8	1.640	3370.0
8-10	20-22	5	1.50	17.80	783.0	4.2	0.909	712.0
10-12	14-16	1	1.00	287.00	541.0	1.5	0.807	436.0
10-12	16-18	2	1.00	30.70	232.0	2.8	1.409	327.0
10-12	18-20	3	1.50	15.20	191.0	8.1	1.961	375.0
10-12	20-22	4	1.50	16.80	422.0	6.2	1.031	435.0
10-12	22-24	5	1.50	3.13	138.0	9.2	1.563	216.0
12-14	16-18	1	1.00	55.40	104.0	1.6	2.222	231.0
12-14	18-20	2	1.50	25.30	127.0	2.4	2.564	326.0
12-14	20-22	3	1.50	21.80	274.0	2.0	1.316	361.0
12-14	22-24	4	1.50	4.73	119.0	4.4	1.923	229.0
12-14	24-26	5	1.50	1.40	61.6	2.4	2.500	154.0
14-16	18-20	1	1.50	300.00	377.0	1.5	1.177	444.0
14-16	20-22	2	1.50	171.00	860.0	2.6	0.571	491.0
14-16	22-24	3	1.50	29.00	364.0	3.2	0.901	328.0
14-16	24-26	4	1.50	7.26	183.0	6.2	1.177	215.0
14-16	26-28	5	1.50	6.08	267.0	6.5	1.099	293.0
20-22	16-18	1	1.20	369.00	580.0	2.0	0.787	457.0
22-24	18-20	1	1.50	82.10	103.0	3.5	1.961	202.0
22-24	16-18	2	1.20	28.20	177.0	3.0	1.316	233.0
24-26	20-22	1	1.50	164.00	206.0	4.8	1.220	251.0
24-26	18-20	2	1.50	12.40	62.3	4.3	2.174	135.0
24-26	16-18	3	1.50	5.86	73.6	3.2	1.667	123.0
26-28	22-24	1	1.50	177.00	222.0	6.5	1.020	227.0
26-28	20-22	2	1.50	56.20	283.0	4.3	0.971	275.0
26-28	18-20	3	1.50	7.28	91.5	3.2	1.887	173.0
26-28	16-18	4	1.50	3.07	77.2	2.5	1.493	115.0
28-30	24-26	1	1.50	124.00	156.0	6.5	1.087	170.0
28-30	22-24	2	1.50	47.00	236.0	6.0	0.893	211.0
28-30	20-22	3	1.50	26.40	332.0	4.8	0.840	279.0
28-30	18-20	4	1.50	3.96	99.5	4.0	1.639	163.0
28-30	16-18	5	1.50	2.44	107.0	3.3	1.316	141.0
30-32	26-28	1	1.50	136.00	171.0	7.3	1.075	184.0
30-32	24-26	2	1.50	35.10	176.0	7.1	0.980	173.0
30-32	22-24	3	1.50	22.10	278.0	7.4	0.833	232.0
30-32	20-22	4	1.50	14.40	362.0	5.9	0.741	268.0
30-32	18-20	5	1.50	2.53	111.0	5.3	1.449	161.0

測定値一覧表 (5 / 6) 測線 T 5

P1-P2	C1-C2	n	I (A)	V (mV)	$\rho - a$ ($\Omega - m$)	FE (%)	Tc	$\rho - ac$ ($\Omega - m$)
0-2	4-6	1	1.50	196.00	246.0	2.6	1.064	262.0
0-2	6-8	2	1.50	100.00	503.0	4.6	0.862	434.0
0-2	8-10	3	1.50	11.10	140.0	5.4	1.667	233.0
0-2	10-12	4	1.50	14.00	352.0	4.0	1.177	414.0
0-2	12-14	5	1.50	13.60	598.0	3.6	0.926	554.0
2-4	6-8	1	1.50	271.00	341.0	2.4	0.962	328.0
2-4	8-10	2	1.50	22.30	112.0	-0.6	1.786	200.0
2-4	10-12	3	1.50	29.30	368.0	-2.0	1.235	454.0
2-4	12-14	4	1.50	23.50	591.0	-0.9	0.980	579.0
2-4	14-16	5	1.50	16.70	735.0	0.8	1.020	750.0
4-6	8-10	1	1.50	86.40	109.0	5.7	2.128	232.0
4-6	10-12	2	1.50	67.10	337.0	4.0	1.220	411.0
4-6	12-14	3	1.50	49.00	615.0	3.6	0.971	598.0
4-6	14-16	4	1.50	25.60	643.0	3.5	1.020	656.0
6-8	10-12	1	1.50	454.00	571.0	4.5	0.641	366.0
6-8	12-14	2	1.50	242.00	1217.0	4.9	0.595	724.0
6-8	14-16	3	1.50	93.80	1179.0	5.4	0.685	808.0
6-8	16-18	4	1.50	12.70	319.0	4.4	1.064	339.0
6-8	18-20	5	1.50	3.67	161.0	3.6	1.316	212.0
8-10	12-14	1	1.50	202.00	254.0	6.4	1.220	310.0
8-10	14-16	2	1.50	51.60	259.0	6.5	1.389	360.0
8-10	16-18	3	1.50	6.01	75.5	7.4	2.174	164.0
8-10	18-20	4	1.50	1.73	43.5	6.2	2.632	115.0
8-10	20-22	5	1.50	.64	28.3	-99.9	2.222	62.9
10-12	14-16	1	1.50	448.00	563.0	4.6	1.299	731.0
10-12	16-18	2	1.50	36.30	183.0	3.9	1.786	327.0
10-12	18-20	3	1.50	8.10	102.0	3.2	2.083	213.0
10-12	20-22	4	1.50	4.38	110.0	4.7	1.695	187.0
10-12	22-24	5	1.50	1.93	84.9	6.3	1.786	152.0
12-14	16-18	1	1.50	260.00	327.0	4.9	1.449	474.0
12-14	18-20	2	1.50	35.80	180.0	4.3	1.449	261.0
12-14	20-22	3	1.50	16.00	201.0	5.6	1.163	234.0
12-14	22-24	4	1.50	6.83	172.0	10.4	1.163	200.0
12-14	24-26	5	1.50	4.17	183.0	5.2	1.299	238.0
16-18	4-6	5	1.50	3.96	174.0	3.5	1.539	268.0
18-20	14-16	1	1.50	179.00	225.0	2.5	1.136	256.0
20-22	16-18	1	1.50	200.00	251.0	3.2	0.943	237.0
20-22	14-16	2	1.50	59.40	299.0	3.6	0.855	256.0
22-24	18-20	1	1.50	81.50	102.0	4.6	1.235	126.0
22-24	16-18	2	1.50	47.10	237.0	5.4	0.990	235.0
22-24	14-16	3	1.50	23.40	294.0	6.1	0.885	260.0
24-26	20-22	1	1.50	112.00	141.0	6.3	1.220	172.0
24-26	18-20	2	1.50	27.10	136.0	5.8	1.351	184.0
24-26	16-18	3	1.50	20.80	261.0	6.6	1.163	304.0
24-26	14-16	4	1.50	12.70	319.0	6.3	1.000	319.0
26-28	22-24	1	1.50	140.00	176.0	5.5	0.971	171.0
26-28	20-22	2	1.50	28.20	142.0	6.5	0.962	137.0
26-28	18-20	3	1.50	10.60	133.0	6.5	1.150	153.0
26-28	16-18	4	1.50	8.44	212.0	7.7	0.990	210.0
26-28	14-16	5	1.50	5.61	247.0	8.9	0.840	208.0
28-30	24-26	1	1.50	29.80	37.4	5.0	1.010	37.8
28-30	22-24	2	1.50	30.00	151.0	5.7	0.820	124.0
28-30	20-22	3	1.50	12.30	155.0	6.9	0.820	127.0
28-30	18-20	4	1.50	5.52	139.0	8.5	0.952	132.0
28-30	16-18	5	1.50	4.95	218.0	6.1	0.820	179.0
30-32	26-28	1	1.50	114.00	143.0	6.7	1.351	193.0
30-32	24-26	2	1.50	23.40	118.0	6.9	1.220	144.0
30-32	22-24	3	1.50	13.10	165.0	5.5	1.010	167.0
30-32	20-22	4	1.50	6.72	169.0	6.5	0.962	163.0
30-32	18-20	5	1.50	3.51	154.0	5.3	1.099	169.0

測定値一覧表 (6 / 6) 測線 T 6

P1-P2	C1-C2	n	I (A)	V (mV)	ρ -a (Ω -m)	FE (%)	Tc	ρ -ac (Ω -m)
0-2	4-6	1	1.20	70.00	110.0	5.2	1.370	151.0
0-2	6-8	2	1.50	16.40	82.4	4.3	1.667	137.0
0-2	8-10	3	0.75	2.95	74.1	3.5	1.961	145.0
0-2	10-12	4	0.75	6.75	339.0	6.5	0.926	314.0
0-2	12-14	5	1.50	5.22	230.0	7.0	0.813	187.0
2-4	6-8	1	1.50	78.60	98.8	5.9	1.205	119.0
2-4	8-10	2	0.75	12.50	126.0	2.2	1.250	158.0
2-4	10-12	3	0.75	31.00	779.0	3.6	0.610	475.0
2-4	12-14	4	1.40	18.60	501.0	3.7	0.565	283.0
2-4	14-16	5	1.50	8.02	353.0	3.2	0.980	346.0
4-6	8-10	1	0.75	62.10	156.0	8.1	1.124	175.0
4-6	10-12	2	0.75	84.20	847.0	5.4	0.553	468.0
4-6	12-14	3	1.40	39.10	527.0	2.8	0.588	310.0
4-6	14-16	4	1.50	12.80	322.0	3.0	1.075	346.0
4-6	16-18	5	1.50	4.88	215.0	2.6	1.266	272.0
6-8	10-12	1	0.75	541.00	1359.0	8.9	0.614	835.0
6-8	12-14	2	1.40	79.80	430.0	9.6	0.840	361.0
6-8	14-16	3	1.50	16.20	204.0	5.4	1.639	334.0
6-8	16-18	4	1.50	4.62	116.0	4.6	1.852	215.0
8-10	12-14	1	1.40	78.00	105.0	10.0	1.695	178.0
8-10	14-16	2	1.50	11.90	59.8	6.5	2.941	176.0
8-10	16-18	3	1.50	3.32	41.7	4.1	3.125	130.0
10-12	14-16	1	1.50	78.90	99.2	9.7	1.818	180.0
10-12	16-18	2	1.50	15.10	75.9	8.7	1.539	117.0
12-14	16-18	1	1.50	40.30	50.6	9.6	1.235	62.5
18-20	14-16	1	1.50	116.00	146.0	6.4	0.909	133.0
18-20	12-14	2	1.40	9.92	53.4	8.7	0.855	45.6
18-20	10-12	3	0.75	3.93	98.8	8.7	1.205	119.0
18-20	8-10	4	0.75	1.01	50.8	6.6	2.500	127.0
18-20	6-8	5	1.50	3.12	137.0	4.4	1.587	218.0
20-22	16-18	1	1.50	122.00	153.0	6.3	1.191	182.0
20-22	14-16	2	1.50	42.70	215.0	7.4	0.848	182.0
20-22	12-14	3	1.50	10.80	136.0	7.8	0.769	105.0
20-22	10-12	4	0.75	6.53	328.0	6.4	1.075	353.0
20-22	8-10	5	0.75	4.17	367.0	3.3	2.273	834.0
22-24	18-20	1	1.50	235.00	295.0	7.8	1.191	351.0
22-24	16-18	2	1.50	33.60	169.0	6.4	1.250	211.0
22-24	14-16	3	1.50	14.90	187.0	7.5	0.893	167.0
22-24	12-14	4	1.50	3.64	91.5	8.3	0.826	75.6
22-24	10-12	5	0.75	2.22	195.0	6.8	1.205	235.0
24-26	20-22	1	1.50	160.00	201.0	7.8	1.136	228.0
24-26	18-20	2	1.50	34.10	171.0	9.8	1.149	197.0
24-26	16-18	3	1.50	7.73	97.1	8.3	1.333	130.0
24-26	14-16	4	1.50	4.26	107.0	8.7	0.952	102.0
24-26	12-14	5	1.50	1.78	78.3	7.6	0.870	68.1
26-28	22-24	1	1.50	49.30	62.0	6.6	1.429	88.6
26-28	20-22	2	1.50	26.30	132.0	7.9	1.471	194.0
26-28	18-20	3	1.50	9.99	126.0	6.8	1.613	203.0
26-28	16-18	4	1.50	3.10	77.9	7.7	1.887	147.0
26-28	14-16	5	1.50	1.87	82.2	7.9	1.333	110.0
28-30	24-26	1	1.50	112.00	141.0	7.6	0.741	104.0
28-30	22-24	2	1.50	30.90	155.0	6.1	0.704	109.0
28-30	20-22	3	1.50	22.20	279.0	7.0	0.769	215.0
28-30	18-20	4	1.50	10.20	256.0	7.2	0.862	221.0
28-30	16-18	5	1.50	3.80	167.0	7.3	1.020	170.0
30-32	26-28	1	1.50	82.80	104.0	7.5	1.724	179.0
30-32	24-26	2	1.50	19.70	99.0	8.8	1.064	105.0
30-32	22-24	3	1.50	11.20	141.0	7.5	0.962	136.0
30-32	20-22	4	1.50	10.10	254.0	7.3	0.980	249.0
30-32	18-20	5	1.50	4.89	215.0	7.5	1.075	231.0

Table A-6 Generalized drilling results

Drill Hole No.	Machine Type	Drilling Period	Drilled Length	Core		Number of Drilling Shift			Drilling Speed	
				Length	Recovery	Drilling	Preparation & Removing	Total	m/shift *	m/shift **
HJE - 7	L - 38	Sep. 7, 1990	305.00m	292.80m	96.0%	29	17	46	6.63	10.52
		Sep. 26, 1990								
HJE - 8	L - 38	Oct. 12, 1990	301.00m	277.00m	100.0%	25	16	41	7.34	12.04
		Oct. 23, 1990								
HJE - 9	L - 38	Nov. 2, 1990	205.00m	176.90m	99.8%	18	19	37	5.54	11.39
		Nov. 11, 1990								
Total	—	—	811.00m	746.70m	98.4%	72	52	124	6.54	11.26

Note * Drilled Length per one shift covering total works operated.

** Drilled Length per one shift covering net drilling operation.

Each hole (HJE 7, 8 & 9) were drilled in 3 shifts / day. (8 hours / shift)

Table A-7 Summary record of drilling results (MJE-7,8 and 9)

M J E - 7

	Periods		Number of Days	Actual Working Days	Pay off	Total Number of Workers
	Aug. 24, 1990 ~ Sep. 6, 1990	Sep. 7, 1990 ~ Sep. 26, 1990				
Preparation			14	14	—	287
Drilling			20	20	—	372
Removing			3	3	—	72
Total			37	37	—	731
Planned Length	300.00	Overburden	Core Recovery for Each 100m Section			
Increase or Decrease in Length	+ 5.00	Core Length	292.80	Section (m)	Core Length (m)	Core Recovery (%)
Drilled Length	305.00	Core Recovery	96.0 %	96.10	84.60	88.0
Drilling	169' 20"	39.9 %	29.4 %	103.80	103.10	99.3
Accompanying Works	254' 40"	60.1 %	44.2 %	105.10	105.10	100.0
Repairing	0'	—	—	—	—	—
Sub Total	424'	100.0 %	73.6 %	Drilling Efficiency		
Preparation	24'	—	4.2 %	$\frac{305}{20} \left(\frac{\text{Total Length}}{\text{Drilling Days}} \right)$		15.3 m/Day
Moving	16'	—	2.8 %	$\frac{305}{37} \left(\frac{\text{Total Length}}{\text{Total Working Days}} \right)$		8.2 m/Day
Others	112'	—	19.4 %	$\frac{372}{305} \left(\frac{\text{Net Drilling Workers}}{\text{Total Length}} \right)$		1.22 mens/m
Grand Total	576'	—	100.0 %	$\frac{731}{305} \left(\frac{\text{Total Workers}}{\text{Total Length}} \right)$		2.40 mens/m
Pipe Size & Inserted Length	Inserted Length x 100	Recovery of Casing Pipe	Remarks			
NG — NUCP	16.50	5.4 %	100.0 %			
BMCP	151.00	49.5 %	100.0 %			

	Periods		Number Of Days	Actual Working Days	Pay off	Total Number of Workers
	Sep. 30, 1990 ~ Oct. 11, 1990	Sep. 30, 1990 ~ Oct. 27, 1990				
Preparation			12	12	—	364
Drilling			12	12	—	286
Removing			4	4	—	104
Total			28	28	—	754
Planned Length	300.00 m	Overburden 24.00 m	Core Recovery for Each 100m Section			
Increase or Decrease in Length	+ 1.00 m	Core Length 277.00 m	Depth (m)	Section (m)	Core Length (m)	Core Recovery (%)
Drilled Length	301.00 m	Core Recovery 100.0 %	24.00~120.50	96.50	94.60	98.0
Drilling	134' 10"	55.9 %	120.50~202.90	82.40	82.40	100.0
Accompanying Works	105' 50"	44.1 %	202.90~301.00	98.10	98.10	100.0
Repairing	0'	—	—	—	—	—
Sub Total	240'	100.0 %	Drilling Efficiency			
Preparation	40'	—	$\frac{301}{12}$	$\left(\frac{\text{Total Length}}{\text{Drilling Days}} \right)$	—	25.08 m/Day
Hoisting	24'	—	$\frac{301}{28}$	$\left(\frac{\text{Total Length}}{\text{Total Working Days}} \right)$	—	10.75 m/Day
Others	144'	—	$\frac{286}{301}$	$\left(\frac{\text{Net Drilling Workers}}{\text{Total Length}} \right)$	—	0.95 mens/m
Grand Total	448'	—	$\frac{754}{301}$	$\left(\frac{\text{Total Workers}}{\text{Total Length}} \right)$	—	2.50 mens/m
Pipe Size & Inserted Length	Inserted Length x 100	Recovery of Casing Pipe	Remarks			
NQ -- HUCP	33.00 m	11.0 %	—			
BHCP	195.50 m	65.0 %	—			

M J E - 9

Drilling Period	Periods		Number Of Days	Actual Working Days	Pay off	Total Number of Workers
	Oct. 28, 1990 ~ Nov. 1, 1990	Nov. 2, 1990 ~ Nov. 11, 1990				
Preparation			5	5	—	120
Drilling			10	10	—	210
Removing			14	14	—	397
Total			29	29	—	727
Planned Length	200.00	Overburden	27.80	Core Recovery for Each 100m Section		
Increase or Decrease in Length	+ 5.00	Core Length	176.90	Depth (m)	Section (m)	Core Length (m)
Drilled Length	205.00	Core Recovery	99.8 %	27.80-113.00	85.20	84.90
Drilling	87' 40"	60.9 %	25.5 %	113.00-205.00	92.00	92.00
Accompanying Works	56' 20"	39.1 %	16.4 %	—	—	—
Repairing	0'	—	—	—	—	—
Sub Total	144'	100.0 %	41.9 %	Drilling Efficiency		
Preparation	40'	—	11.6 %	$\frac{205}{10}$	$(\frac{\text{Total Length}}{\text{Drilling Days}})$	20.50 m/Day
Moving	112'	—	32.5 %	$\frac{205}{29}$	$(\frac{\text{Total Length}}{\text{Total Working Days}})$	7.07 m/Day
Others	48'	—	14.0 %	$\frac{210}{205}$	$(\frac{\text{Net Drilling Workers}}{\text{Total Length}})$	1.02 mens/m
Grand Total	344'	—	100.0 %	$\frac{727}{205}$	$(\frac{\text{Total Workers}}{\text{Total Length}})$	3.55 mens/m
Pipe Size & Inserted Length	Inserted Length x 100	Recovery of Casing Pipe	Remarks			
NQ - NUCP	28.00	13.7 %	100.0 %			
BHCP	—	— %	— %			
	—	—	—			

Table A-8

Drilling equipments and consumed materials

A. Drilling Equipment

Article	Model	Specification	Quantity
Drilling Machine	L 38	Maker : Longyear Capacity : 80 WL 725m Dimensions : Height 1,450mm Length 2,120mm Weight (without Power Unit) : 1,150kg	1 set
Diesel Engine	F4L 912	Maker : Mitsui Deutz Horse Power : 52HP / 1,800rpm	1 set
Drilling Pump	520 RQ	Maker : Longyear Piston Diameter 57mm Stroke 57mm Max. Capacity 76l / min Max. Pressure 49kg / cm ² Weight (without Power Unit) : 395kg	2 set
Diesel Engine	FIL 210	Maker : Mitsui Deutz Horse Power : 8.5HP / 1,800rpm	2 set
Mixer	Jet Type	Run by Drilling Pump	1 set
Drill Rod		NQWL (3.00m / joint) BQWL (3.00m / joint) NQ - NU (2.50m / joint) BW (2.80m / joint)	85 joints 130 joints 18 joints 100 joints
Wireline Hoist		Attached to Drilling Machine	1 set
Water Supply Pump	HS 1,503	Maker : MARUYAMA Max. Capacity 150 l / min Max. Pressure 30kg / cm ² Weight (without Power Unit) : 40.8kg	2 set
Diesel Engine	NF 13 EK	Maker : YANMAR Diesel Horse Power : 12.5HP / 2,400rpm	2 set

B. Consumed Materials

Article	Specification	Unit	Quantity			
			MJE - 7	MJE - 8	MJE - 9	Total
Light Oil	Engine	ℓ	1,937	975	810	3,722
Cement	40Kg/Sx	Sx	5	6	6	17
Bentonite	25Kg/Sx	Sx	118	48	40	206
Libonite	20Kg/Sx	Sx	18	7	4	29
C.M.C.	10Kg/Sx	Kg	138	76	66	280
TK60B	20Kg/Sx	Sx	45	25	18	88
TELSTOP	25Kg/Sx	Sx	7	4	4	15
Mud Oil	16ℓ /can	ℓ	509	230	177	916

C. Consumed Bit

Hole No. / Bit Type		MJE - 7		MJE - 8		MJE - 9		Total	
		Drilled Length	Quantity	Drilled Length	Quantity	Drilled Length	Quantity	Drilled Length	Quantity
101mm Single	Metal Bit	16.50 m	8 pcs	33.00 m	4 pcs	28.00 m	4 pcs	77.50 m	16 pcs
	Dia. Shoe Bit	16.50	1	33.00	1	28.00	1	77.50	3 pcs
NOWL	Dia. Bit	134.50	15	162.50	4	177.00	4	474.00	23
	Dia. Reamer	134.50	6	162.50	3	177.00	3	474.00	12
BOWL	Dia. Bit	154.00	4	105.50	3	—	—	259.50	7
	Dia. Reamer	154.00	2	105.50	2	—	—	259.50	4

Dia. : Diamond

