

第2章 将来への提言

本年次の調査結果と、その検討によって得られた結論に基づき、将来の調査として次のことが提言される。本地域の金鉱床探査では土壌地化学探査法は有効であり、露頭探査や現地パンニング等と並行に行われる手法である。指示元素の選択には、分析精度などの技術的問題がともない、最適指示元素の特定には更に検討を要するが、地域内の開発鉱床の例などからして、Au, Sb, As, Hgを用いた地化学探査の実施が望まれる。

第1年次の準精査地区外の地域、あるいは第2年次の精査の対象地区に選出されなかった第1年次の有望な地化学異常などは、本調査で実証された地化学探査の手法を用いた将来の探査の対象となると考えられる。

またA3およびE1の鉱化帯のボーリングによる下部延長探査は将来の有望地区の選定基準の確立に役立つものと考えられる。

ABBREVIATION

st	structure	Ser	sericite
Cal	calcite	car	carbonitization
Qz	quartz	Si	silicification
v	vein	seg	segregation
vl	veinlet	w=	width
spd	sulphide	calc	calcareous
irg	irregular	alt	alternation
Py	pyrite	Pl	plagioclase
imp	impregnation	Po	pyrrhotite
diss	dissemination	Chl	chlorite
ntw	network	bre	breccia
wht	white	pheno	phenocryst
grn	green	ppl	purple
gry	gray	fin	fine
blk	black	comp	compact
brn	brown	msv	massive
argil	argillization	homog	homogeneous
Pyr	pyrophyllite	hetr	heterogeneous
Lim	limonite	vert	vertical
gsn	gossan	fract	fracture
amyg	amygdal	drk	dark
sed	sediment	Mus	muscovite
intercal	intercalation		

Ap	aplite
Ad	andesite
Bs	basalt
Af	acid tuff
BIF	banded iron formation
Bt	basic tuff
Dc	dacite
Gr	granite
Qp	quartz porphyry
P	porphyrite
Ch	chert
Sch	pelitic sediment
Do	dolerite
La	laterite

AREA KADOMA Drill No. A3-5

AREA KADOMA Drill No. A3-6

Depth (m)	Column	Geology				Sample No.	Depth (m)	Column	Geology				Sample No.
		Rock Name	Description	Alteration	Mineralization				Rock Name	Description	Alteration	Mineralization	
1.26	V V O X O	Op	Grn Wht Fls Qz Pheno small 0.5-1.0mm										
3.47	X O X V V			St	Py Imp								
10	V V V V V V V V V V V V V V V V V V V V		Circulation Zone Ceased due to Dissolution of Col VI										
18.07	V V V V V V V V V V V V V V V V V V V V	Bs	Drk Grn Fin Comp										
20	V V V V V V V V V V V V V V V V V V V V		Fract										
27.32 28.97 29.59	V V V V V V V V V V V V V V V V V V V V												
30	V V V V V V V V V V V V V V V V V V V V	Qtz	Brc Zone										
40	V V V V V V V V V V V V V V V V V V V V	Bs											
45.00	V V V V V V V V V V V V V V V V V V V V												
47.50	V V V V V V V V V V V V V V V V V V V V	P	Pl Pheno Qtz Rare Re KIALIZED 240° Ig										
50 50.80	V V V V V V V V V V V V V V V V V V V V												
57.60	V V V V V V V V V V V V V V V V V V V V	Do	Shear Zone										
61.34 61.79	V V V V V V V V V V V V V V V V V V V V	Sch	280° Gry Spl Pelitic Sed										
68.80	V V V V V V V V V V V V V V V V V V V V	Do											
70	V V V V V V V V V V V V V V V V V V V V	Sch/BI	Ppl Gry Cordierite Spotted Meta Sed Partly Qtz VI/Si										
80 80.55	V V V V V V V V V V V V V V V V V V V V		Boundary Transitional										
90	V V V V V V V V V V V V V V V V V V V V	Bs	Vertical Fracture										
99.30 99.50 99.70 100	V V V V V V V V V V V V V V V V V V V V		260°-70° Shear Zone Brc Filled with Col+Py										
10	X O X V V V V V V V V V V V V V V V V V V												
10	V V V V V V V V V V V V V V V V V V V V	Bs	Drk Grn Fin										
10	V V V V V V V V V V V V V V V V V V V V		Fract / Jointing 270° Partly St										
10	V V V V V V V V V V V V V V V V V V V V	Op	Grn Fin-Med Qtz Pl Pl Perphyritic/Acid Tuff Boundary Sharp 200°-40°										
20	V V V V V V V V V V V V V V V V V V V V	Bs	Drk Grn Qtz VI Abundant Halog Like Lava Flow										
25.56	V V V V V V V V V V V V V V V V V V V V												
27.32 28.97 29.59	V V V V V V V V V V V V V V V V V V V V	Op	Bluish Gry, Pl Perphyritic										
30	V V V V V V V V V V V V V V V V V V V V												
33.70	V V V V V V V V V V V V V V V V V V V V	Bs/Sch	Basic Tuff / Pelitic Sediment Alteration Irregularly Mixed in Part Biotite Formed By Thermal Effects										
40	V V V V V V V V V V V V V V V V V V V V												
50	V V V V V V V V V V V V V V V V V V V V	At											
60	V V V V V V V V V V V V V V V V V V V V	Bs											
64.90	V V V V V V V V V V V V V V V V V V V V	Gr	280° Drk Gry-Grn Med Hb Spotted Marginal Fine Facies										
67.90	V V V V V V V V V V V V V V V V V V V V	Bs	210° Grn Fin										
70	V V V V V V V V V V V V V V V V V V V V	Do	Coarser Facies, No Distinct Boundary with Bs										
80	V V V V V V V V V V V V V V V V V V V V	Bs	Fin Med Drk Grn										
83.75 84.55	V V V V V V V V V V V V V V V V V V V V	Sch	Pelitic Sed Biotite Cordierite Rock Schistosity 170° 250°										
90	V V V V V V V V V V V V V V V V V V V V	Bl/Sch	Basic Tuff / Pelitic Sed All										
99.30 99.50 99.70 100	V V V V V V V V V V V V V V V V V V V V												

Fig. II-2-9 Drilling Log of Area A3 (3) A3-5, A3-6

AREA KADOMA Drill No. C2-1

AREA KADOMA Drill No. C2-2

AREA KADOMA Drill No. C2-1					AREA KADOMA Drill No. C2-2						
Depth (m)	Column	Geology			Sample No.	Depth (m)	Column	Geology			Sample No.
		Rock Name	Description	Alteration				Mineralization	Rock Name	Description	
0-10	Soil					0-10	Soil				
10-16.50	Do				①	10-20	Gravel				
16.50-24.30	Bs					20-23.50	Weathered				
24.30-30.30	Do	240°			②	23.50-30.30	Do				
30.30-39.30	Py Disseminated					30-40	Crk. Acids&K 10 Aggregat				
39.30-46.50	Partly Crk Do No Obvious Boundary Mgt. Rck				③	40-50	Frer				
46.50-56.30	Bs					50-60	Bs				
56.30-56.75	Op Vt					60-63.75					
56.75-63.30	Do	240° Dolomite				63.75-70					
63.30-65.30	Bs					70-72.25					
65.30-66.75	Op	240°				72.25-77.50					
66.75-67.92	Bs	240°-35°				77.50-78.25					
67.92-69.30	Op					78.25-80.50					
69.30-70.80	Bs	230°				80-80.50					
70.80-72.25	Op	200°				80.50-86.50					
72.25-77.50	Bs					86.50-87.50					
77.50-78.25	Op	260°-70°				87.50-90.85					
78.25-80.50	Bs	240°				90-94.73					
80.50-86.50	Op					94.73-95.50					
86.50-87.50	Bs	Op Vt				95.50-95.80					
87.50-90.85	Op	25°-230°				95.80-100					
90.85-94.73	Bs	260°									
94.73-95.50	Op	Light Gy									
95.50-95.80	Bs	Frer. Chkd Margh									
95.80-100	Op	243°									
	Bs	96.50-96.60 Cal, Op Vt									
	Stop										

Fig. II-3-2 Drilling Log of Area C2 C2-1, C2-2

AREA KADOMA Drill No. E1-1

AREA KADOMA Drill No. E1-2

Geology					Sample No.	Geology					Sample No.		
Depth (m)	Column	Rock Name	Description	Alteration		Mineralization	Depth (m)	Column	Rock Name	Description		Alteration	Mineralization
10		Soil						Soil					
11.75		Dc	Grn Altered	Pyx			337		Weathered Red Brn Or Pheno Visible				
20		At		Pyx + Qtz Vt			10-1190	Dc	Dk - Light Grn Msv		866-86 S. 10 Py	①	
22.15		Ad	Lim Partly		24 33-41 31 31-34 50°		1920	At	Red Cream Pyx	Pyx			
30		Ad			26 70-77 Lim		20	Dc	Hml Nte			②	
32.15					30 15-25 30 45-95 Hml Py 250°		30	At	Lim Bnd 260° Si Tr		2200 Qtz V W: 2cm 2330 Qtz V W: 2cm 270°	③	
40		Dc	Mdky Whit - Cream Yellow With Chl Nte	Pyx + Ser	36 30-41 36 40-50 Py Nte		3180				26 07-27 12 Py + Qtz 260° 27 00-28 30 28 15-29 32 Py Qtz	④	
50					44 44-54 Py Nte 270°		40	Ad	Grn Reddsh Oxidized Ad		30 82 Qtz V W: 1cm	⑤	
53.75					47 00 Py Nte 48 50 Py Nte		4480		Gry Grn Fin Col Vt	Car		⑥	
60		Ad	Brush Gry		50 30-75 Py Nte 50 71-51 Py Nte 51 14 53 50 Py Nte		50		Dc Tea locally		47 15-95 Car + Py 280°	⑦	
70		Dc	260° Or Pheno	Pyx	55 90-56 05 Py Qtz Bnd W: 2cm 250° 56 15-25 Py 57 20-30 Py 58 78-59 18 Py 59 87-60 00 Py 60 85-61 00 Py		55 40 56 40		275°		Py Diss	⑧	
76.35		Ad	Brn Dk Grn Ox Spotted Grn	Chl Vt	62 35-50 Col Vt Vt		60				61 10-30 Py	⑨	
78.97		Dc	250°		63 40-62 Vt 65 20 65 55-50 Py 66 55-57 Vt Py Diss 260° 68 25-30 Py		70			Car	72 20 Py Diss 73 20 270°	⑩	
86.50		Ad			73 15-23 Py Red		80	Ad			77 00-20 Qtz Col V W: 1-2cm 260°	⑪	
96.50		Dc	240°		85 15-23 Qtz V W: 5cm 240°		90		Light Gry	91.52- Intense Car + Chl, Calc	Py Diss Occasionally	86 75 Col V W: 2cm 250° 87 00-10 W: 1cm 260° 87 82 Col V W: 4cm 260°	⑫
98.90		Dc	230°		96 60-90 Qtz V + Py Diss 97 45-61 Py Diss		100		Stop		96 76 Py Diss		
100		Stop					100		Stop		99 60 Py Diss		

Fig. II-4-11 Drilling Log of Area E1 (1) E1-1, E1-2

AREA KADOMA Drill No. E1-3

AREA KADOMA Drill No. E1-4

AREA KADOMA Drill No. E1-3						AREA KADOMA Drill No. E1-4							
Depth (m)	Column	Geology				Sample No.	Depth (m)	Column	Geology				Sample No.
		Rock Name	Description	Alteration	Mineralization				Rock Name	Description	Alteration	Mineralization	
743	Soil					100	Soil						
743	La					220	Ad						
743	Soil					800	Slime						
743	La					956							
743	Soil					1040							
743	La					600							
743	Soil					1750							
743	La					20	Ad						
743	Soil					2499							
743	La					30							
743	Soil					334							
743	La					40							
743	Soil					4300							
743	La					4675							
743	Soil					50	Ad						
743	La					5920							
743	Soil					60							
743	La					6565							
743	Soil					70							
743	La					7464							
743	Soil					7770							
743	La					80							
743	Soil					8920							
743	La					90							
743	Soil					9420							
743	La					9820							
743	Soil					9920							
743	La					100							

Fig. II-4-12 Drilling Log of Area E1 (2) E1-3, E1-4

AREA KADOMA Drill No. E1-5

AREA KADOMA Drill No. E1-6

AREA KADOMA Drill No. E1-5					AREA KADOMA Drill No. E1-6						
Depth (m)	Column	Geology			Sample No.	Depth (m)	Column	Geology			Sample No.
		Rock Name	Description	Alteration				Mineralization	Rock Name	Description	
10	Soil					10	Soil Lo				
10-20	Lo	Non Core				10-20	Non Core				
20-30	Ad	Washed Ad		Wt Clay		20-30	Ad				
30-3170	Ad	Non (Py?) Vt Ntw		Argl	1	30-3170	Ad				
3170-3270	BIF ?			Si Zone ?	2	3170-3270	Ad				
3270-3400	P	Ms-Pt Pyphy Py low		White Clay	3	3270-3400	Ad				
3400-3495	P			Alteration	4	3400-3495	Ad				
3495-4225	Ad	Non V-Vt Ntw		~ 4.30	5	3495-4225	Ad				
4225-4525	Ad	Shear Zone		4525	6	4225-4525	Ad				
4525-4960	Ad	Partly Gn Alimed Ad		4525-4630	7	4525-4960	Ad				
4960-5256	Ad			4960-5030	8	4960-5256	Ad				
5256-5590	Ad	Gy Gn Ad Partly Py Vt		5256	9	5256-5590	Ad				
5590-5655	Ad			5590	10	5590-5655	Ad				
5655-5830	Ad			5655	11	5655-5830	Ad				
5830-6235	Ad			5830	12	5830-6235	Ad				
6235-6500	Ad			6235	13	6235-6500	Ad				
6500-7060	Ad			6500	14	6500-7060	Ad				
7060-7430	Ad			7060	15	7060-7430	Ad				
7430-7450	Ad			7430	16	7430-7450	Ad				
7450-8217	Ad			7450	17	7450-8217	Ad				
8217-8277	Ad			8217	18	8217-8277	Ad				
8277-8465	Ad			8277	19	8277-8465	Ad				
8465-8602	Ad			8465	20	8465-8602	Ad				
8602-9025	Ad			8602	21	8602-9025	Ad				
9025-9167	Ad			9025	22	9025-9167	Ad				
9167-9336	Ad			9167	23	9167-9336	Ad				
9336-9550	Ad			9336	24	9336-9550	Ad				
9550-9916	Ad			9550	25	9550-9916	Ad				
9916-10050	Ad			9916	26	9916-10050	Ad				
10050-100	Stop			10050	27	10050-100	Stop				

Fig. II-4-13 Drilling Log of Area E1 (3) E1-5, E1-6

AREA KADOMA Drill No. E1-9

AREA KADOMA Drill No. E1-10

Depth (m)	Column	Geology				Sample No.	Depth (m)	Column	Geology				Sample No.
		Rock Name	Description	Alteration	Mineralization				Rock Name	Description	Alteration	Mineralization	
10	Ad	Sell	Laticite	Aggl in Part (Sill)		3.20		Sell					
20	Ad		Strong Ox Zone	Si	-20.07 Mg Qz V	①	10	La	Weathered Rock / Laticite, Box Work of Py Mineralization				
30	Ad		Red Br - Gr				20		Partly Sulfides Aggl	White Clay			
40	Ad		Pl Phenol. Holes, Porat	White Arg Along Fract			30		Laticite Mat Grn		Ox Veining		
50	Ad						40	Ad	Dark Mat Pl Qz Phen Rare	Oxidized Zone			
60	Ad						50		Brnsh Grn Andesitic Lava - Tuff Lithoblocks				
70	Ad						60		Brnsh Gry		Py Oss 59.80 Fe-Ox V 280° W/ton		
80	Ad						70						
90	Op						80						
100	Ad						90						
							100						

Fig. II-4-15 Drilling Log of Area E1 (5) E1-9, E1-10

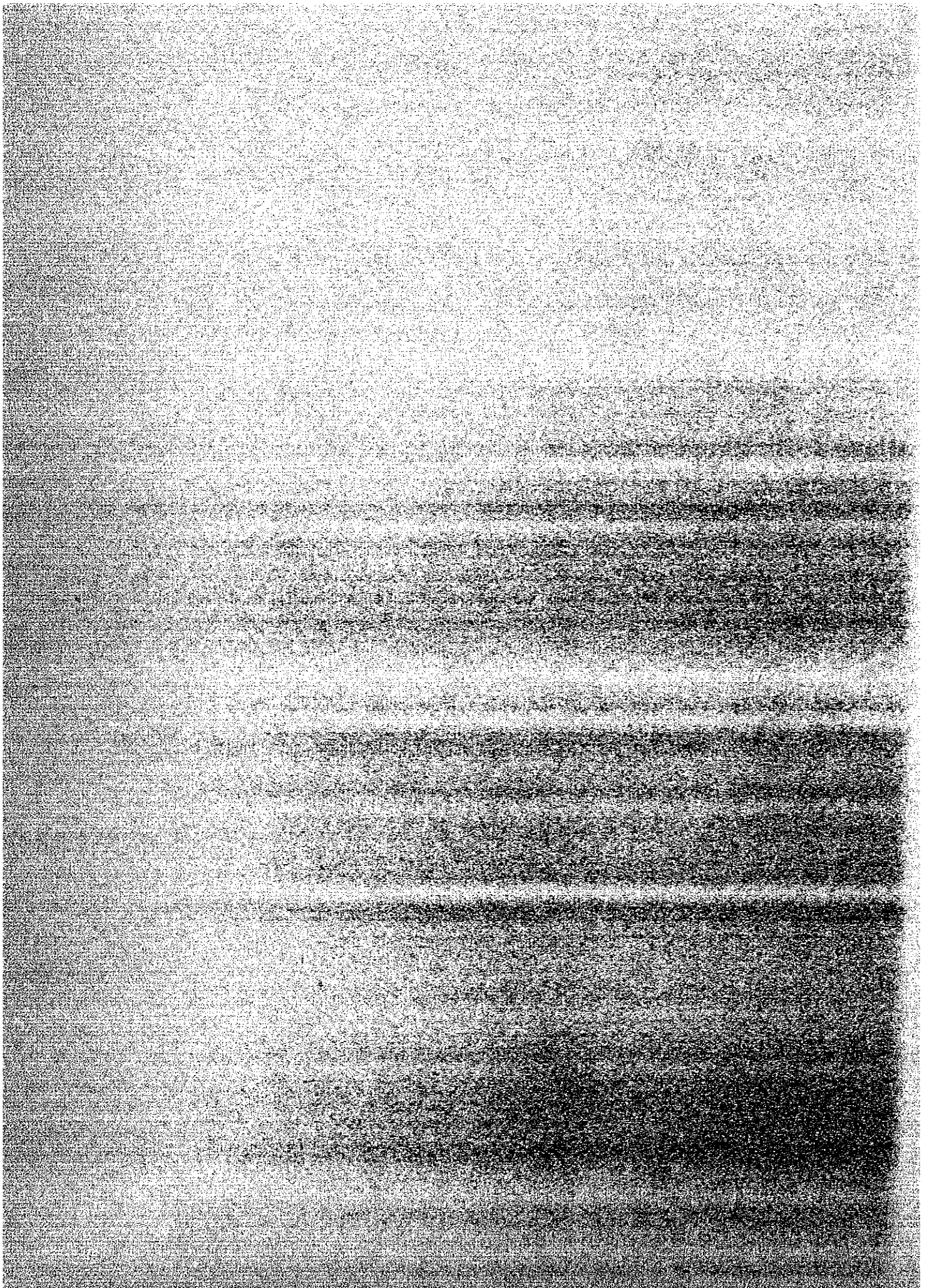
AREA KADOMA Drill No. E1-11

AREA KADOMA Drill No. E1-12

Geology					Sample No.	Geology					Sample No.	
Depth (m)	Column	Rock Name	Description	Alteration		Mineralization	Depth (m)	Column	Rock Name	Description		Alteration
0-10	Soil/Ls						0-10	Soil				
10-20			Weathered Red Brn Yellow Clay Creamy Red Gr. Fin. Non Weathered	White Clay Altered			10-20					
20-30				Ox Zone			20-30	Ad			1465 1752	Si
30-40			Gr. Cr. Med. Partly Porous Vertical Cosh				30-40				3050 3100	White Argil
40-50			Fractured Intensity		35.40-35.55 Hst V Py Arg 39.90-40.00 Hst V Arg 40.64 Hst V	1	40-50	Op	Pl. Porphyriz Gr. Pink Med	Car		3460-30 Hst Py Pseud Det. Diss
50-60			Gr. Cr. Amyl Full Wht. Pl. Photo Ad		44.47 Hst V 2.5	3	50-60					
60-70			Fractured Zone Py. Imp. or New Locals		50.05 Hst Py 51.00 Fin 52.45 Py NW 53.54	4	60-70	Ad				5307 5374 5574 5700 5600 Py Dist
70-80					56.02 Py Hst NW 57.07 59.08 Hst Hst Py 61.20 Hst NW 63.02	5 6 7 8	70-80	Op				Car + Py VI 260°
80-90					Py. Fin. VI NW 69.94-70.04 Hst Py Py VI NW 74.40 74.94 Gr V 75.55-76.80 Gr V 77.00-77.25 Py NW 77.40-78.00 Gr V + Py 79.65-80.20 Py NW 81.96-82.25 270° Py 83.51 Py VI L. Gr. VI 85.60	9 10 11 12 13 14 15 16 17 18 19 20	80-90	Op	Partly Py. Diss 260-90°		77.5-80 Py VI 260° 81.55 Gr V Py 82.58-82.59 Gr V Py VI Diss 84.25 Py VI Comp 85.20 Py Cells of Discon- tinuous 87.20 VI 87.5-89.45 Py Diss 89.5 Gr VI 260°	
90-100			Med. Wht. Spot Ad Stop		88.00-89 89.25-90.00 Py NW 91.55-92.00 Py NW 92.45-93 Py NW 95.00-95 95.60-95.80 Py NW	21 22 23 24	90-100	Op				90.30 Gr V + Py Hst NW 260° 91.55-92.40 93.40 Gr VI 95.45-95 Py NW 96.45-98 Gr VI 250° 98.76- 98.82 Py Diss

Fig. II-4-16 Drilling Log of Area E1 (6) E1-11, E1-12

Bibliography



Bibliography

- 1) Boyle R.W.
1979: The Geochemistry of Gold and its Deposits; Geol. Sur. Canada Bull., 280, p. 584
- 2) 1982: Geochemical Method for the Discovery of Blind Mineral Deposits; CIM Bull.
- 3) Cux R.
1985: Geochemical Soil Surveys in Exploration for Nickel Copper Sulphides at Pioneer, Near Norseman, Western Australia; Jour., Geochem., Expl., v. 23, p. 437-460
- 4) Falcon Mines Limited
1976: Final Report-E.P.O., No. 470
- 5) Foster R.P. et al
1985: Major Controls of Archean Gold Mineralisation in Zimbabwe; Geol. Soc. S. Afr. Trans., v. 88, p. 109-133
- 6) 1982: The Geology, Geochemistry and Genesis of Gold Deposits; A.A. Balkema, Rotterdam, p. 753
- 7) Grichting E. et al
1982: Gold '82 Excursion Guidebook; Geol. Soc. Zim.
- 8) JICA MMAJ
: Report on the Cooperative Mineral Exploration of the Kadoma Area, Republic of Zimbabwe Phase I Feb. 1987
- 9) : Report on the Cooperative Mineral Exploration of the Kadoma Area, Republic of Zimbabwe Phase II Jan. 1988
- 10) Chamber of Mines
1988: Chamber of Mines Journal Vol. Jul. to Vol. Nov.
- 11) Hawkes H.E. et al
1965: Geochemistry in Mineral Exploration
- 12) Lepeltier C.

1969: A Simplified Statistical Treatment of Geochemical Data
by Graphical Representation; Econ. Geol., v. 64, p. 538-550

13) Naldrett A.J. Cabri L.J.

1976: Ultramafic and Related Mafic Rocks-Their Classification
and Genesis with Special Reference to the Concentration
of Nickel Sulphides and Platinum Group Element; Econ. Geol.,
v. 71, p. 1131-1158

14) Phillips G.N. et al

1984: An Epigenetic Origin for Archean Banded Iron Formation-
Hosted Gold Deposits; Econ. Geol., v. 79, p. 162-171

15) Rio Tinto Rhodesia Limited

1972: Final Report-E.P.O. No. 180

1972: Final Report-E.P.O. No. 291

16) Rio Tinto Zimbabwe

1983: Geological Aspects of Empress Nickel Mine

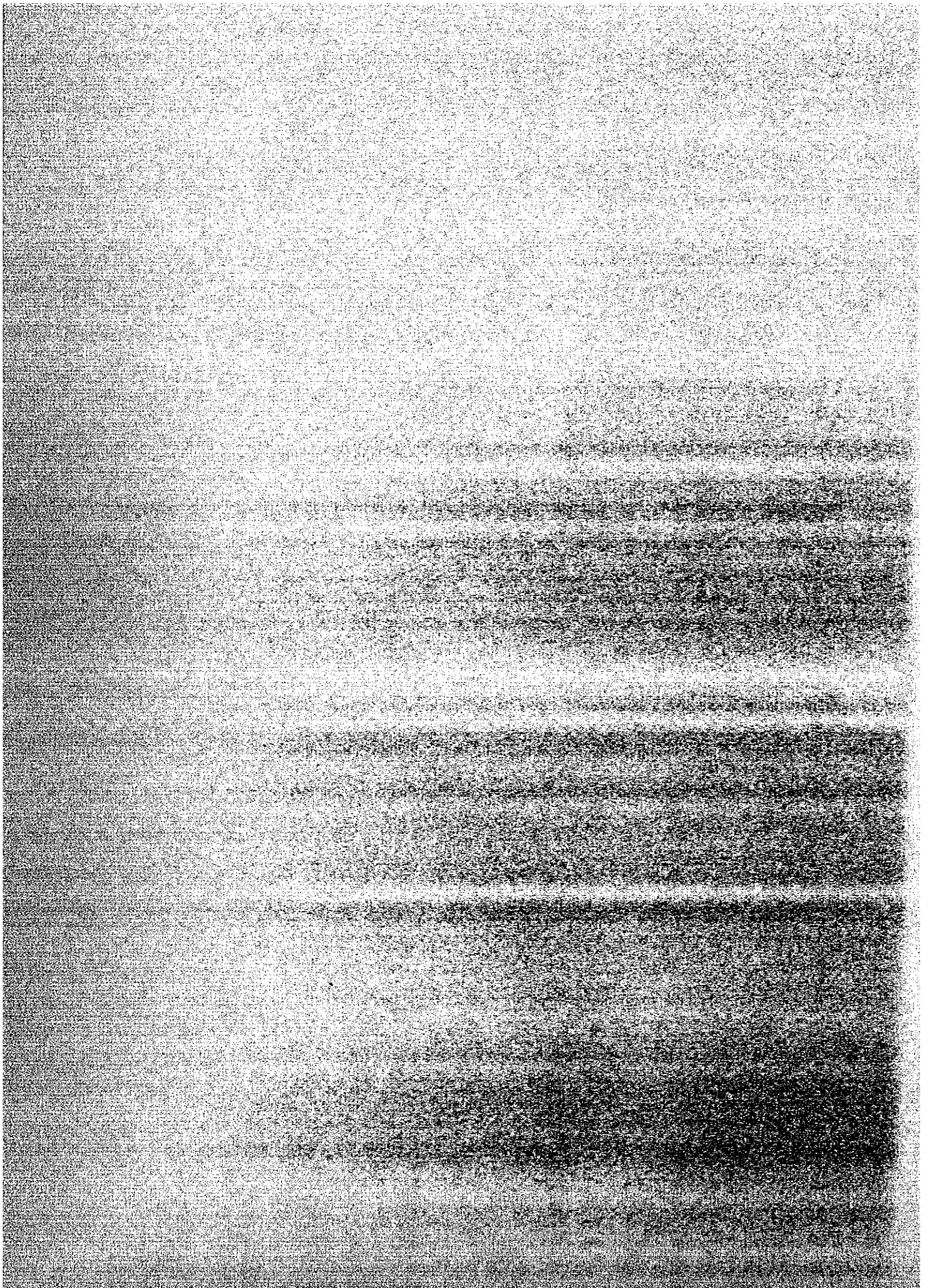
17) Tarrus Pty. Ltd.

1975: Final Report-E.P.O. No. 470

18) Viewing K.A.

1985: Geochemical Orientation Studies near Gweru, Kwekwe and
Kadoma applied to prospecting for Gold, Copper, Lead, Zinc
and Nickel; Report No. C338, Institute of Mining Research,
University of Zimbabwe

Appendices



APPENDIX 1. Au, Ag Assay Values of Samples

(1)

No.	SAMPLE No.	HOLE No.	DEPTH (m)	MINERALS	ANALYSIS		CORE (cm)
					Au (g/t)	Ag (g/t)	
1	RE1- 1		-		0.30	3.98	
2	RE1- 2		-		0.45	3.46	
3	RE1- 3		-		0.03	3.46	
4	RE1- 4		-		0.27	3.04	
5	RE1- 5		-		0.01	2.94	
6	RE1- 6		-		0.01	9.33	
7	RE1- 7		-		0.56	4.09	
8	RE1- 8		-		<0.01	9.12	
9	RE1- 9		-		0.35	2.62	
10	RE1-10		-		0.01	2.52	
11	RE1-11		-		0.12	6.18	
12	RE1-12		-		0.22	3.25	
13	RE1-13		-		<0.01	8.28	
14	RE1-14		-		1.95	7.65	
15	RE1-15		-		1.09	4.93	
16	RE1-16		-		0.77	3.98	
17	C2TR-1		0.50		1.59	1.05	
18	C2TR-2		0.50		0.02	0.63	
19	C2TR-3		0.50		0.01	1.78	
20	C2TR-4		0.50		0.01	1.99	
21	C2TR-5		0.50		0.12	2.42	
22	A3-1-1	A3-1	15.81-16.54	Si	0.01	2.63	73
23	A3-1-2	A3-1	17.62-17.82	Py+Chl	0.04	5.68	20
24	A3-1-3	A3-1	21.00-21.06	Qz	<0.01	1.58	6
25	A3-1-4	A3-1	97.51-97.61	Chl+Py, Po	1.44	4.42	10
26	A3-2-1	A3-2	64.39-64.60	Chl+Si	0.07	5.26	21
27	A3-2-2	A3-2	64.80-64.90	Qz+Po, Py	0.01	4.00	10
28	A3-2-3	A3-2	65.02-65.12	Chl+Si	<0.01	3.47	10
29	A3-2-4	A3-2	82.90-83.45	Qz	0.03	3.05	55
30	A3-2-5	A3-2	91.00-91.40	Chl+Qz	0.01	2.63	40
31	A3-3-1	A3-3	47.67	Qz, Cal+Po	1.35	2.51	5
32	A3-4-1	A3-4	17.35-17.50	Qz, Cal+Po	0.03	2.29	15
33	A3-4-2	A3-4	26.36-26.51	Cal+Shear	0.01	2.17	4
34	A3-4-3	A3-4	63.00-63.75	Chl, Qz	<0.01	1.49	75
35	A3-4-4	A3-4	68.70-68.90	Cal+Qz	0.03	1.94	20
36	A3-4-5	A3-4	96.77-96.85	Qz+Py	7.44	1.83	8
37	A3-5-1	A3-5	27.92-28.57	Qz+Si	0.03	2.63	65
38	A3-5-2	A3-5	28.57-28.99	Qz	0.39	1.97	42
39	A3-5-3	A3-5	57.60-57.70	Shear+Cal	0.07	2.31	10
40	A3-5-4	A3-5	99.30-99.60	Shear+Cal	0.03	2.66	30
41	A3-6-1	A3-6	33.70	Qz	0.01	1.16	3
42	A3-7-1	A3-7	23.56-23.76	Qz+Si	41.21	3.70	20
43	A3-8-1	A3-8	9.92-9.95	Qz	0.01	1.50	3
44	A3-8-2	A3-8	25.70-25.90	Si+Py	0.51	6.48	20
45	E1-1-1	E1-1	30.45-30.95	Hmt, Py	4.96	3.26	45
46	E1-1-2	E1-1	44.44-44.54	Py	0.02	1.28	10
47	E1-1-3	E1-1	50.50-50.75	Py	0.11	1.63	25
48	E1-1-4	E1-1	52.11-52.21	Qz+Py	0.25	2.44	10
49	E1-1-5	E1-1	55.90-56.05	Py	0.09	2.84	15
50	E1-1-6	E1-1	56.15-56.45	Py	0.02	1.51	30
51	E1-1-7	E1-1	57.20-57.30	Py	0.02	2.56	10
52	E1-1-8	E1-1	58.78-59.18	Py	0.01	2.31	40
53	E1-1-9	E1-1	59.87-60.00	Py	0.03	2.89	13
54	E1-1-10	E1-1	60.85-61.00	Py	0.02	2.31	15
55	E1-1-11	E1-1	65.65-65.90	Py	0.55	3.47	25

(2)

No.	SAMPLE No.	HOLE No.	DEPTH (m)	MINBRALS	ANALYSIS		CORE (cm)
					Au (g/t)	Ag (g/t)	
56	E1-1-12	E1-1	66.75-67.00	Py	0.81	2.89	25
57	E1-1-13	E1-1	85.15	Qz	0.02	1.99	5
58	E1-1-14	E1-1	96.60-96.9	Qz+Py	0.01	1.74	30
59	E1-1-15	E1-1	97.46-97.61	Py	0.03	2.31	15
60	E1-2-1	E1-2	9.66-9.86	Si	0.01	1.96	20
61	E1-2-2	E1-2	22.00	Qz	0.03	1.85	2
62	E1-2-3	E1-2	23.30	Qz	0.02	1.27	2
63	E1-2-4	E1-2	26.87-27.12	Qz+Py	0.04	8.99	3
64	E1-2-5	E1-2	27.80-28.35	Py	0.02	7.15	55
65	E1-2-6	E1-2	30.82	Qz+Lm+Hmt	0.10	2.88	
66	E1-2-7	E1-2	55.40-56.40	Py	0.03	4.63	100
67	E1-2-8	E1-2	61.10-61.30	Py	0.01	3.47	20
68	E1-2-9	E1-2	72.20-73.20	Py	0.87	4.40	100
69	E1-2-10	E1-2	77.00-77.20	Qz+Cal	0.01	5.21	1.2
70	E1-2-11	E1-2	87.82	Cal	0.01	13.89	4
71	E1-2-12	E1-2	99.60	Py	0.12	2.24	
72	E1-3-1	E1-3	47.50-48.05	Arg	0.08	4.61	55
73	E1-3-2	E1-3	51.20-52.15	Qz ntw+Lm	0.04	1.71	95
74	E1-3-3	E1-3	52.15-54.00	Hmt	0.04	2.89	185
75	E1-3-4	E1-3	54.00-54.50	Arg	0.12	2.24	50
76	E1-3-5	E1-3	59.57-59.95	Hmt	1.39	3.82	38
77	E1-3-6	E1-3	76.38-76.43	Hmt	0.14	4.08	5
78	E1-3-7	E1-3	80.82-80.92	Py+Cal	1.46	6.94	5
79	E1-3-8	E1-3	82.30-82.55	Py	0.04	2.36	25
80	E1-3-9	E1-3	88.00-88.36	Py+Cal	0.38	2.75	3
81	E1-3-10	E1-3	94.20-95.10	Py+Qz, Si	0.03	2.23	90
82	E1-3-11	E1-3	97.45	Cal+Py	1.34	5.10	2
83	E1-4-1	E1-4	37.47-37.72	Hmt	0.02	2.49	25
84	E1-4-2	E1-4	38.20-38.78	Hmt+Spd+Qz	0.05	4.32	58
85	E1-4-3	E1-4	39.90-40.10	Qz+Hmt±Spd	6.69	7.07	20
86	E1-4-4	E1-4	40.10-42.40	Hmt	0.09	3.93	230
87	E1-4-5	E1-4	43.21-43.51	Hmt	0.25	3.80	30
88	E1-4-6	E1-4	44.62-44.92	Hmt	0.06	2.75	10
89	E1-4-7	E1-4	54.50-55.00	Arg	0.08	1.57	50
90	E1-4-8	E1-4	64.19-64.69	Py+Cal	0.35	1.57	50
91	E1-4-9	E1-4	64.69-65.25	Py+Cal	0.03	1.57	50
92	E1-4-10	E1-4	71.80-71.90	Cal+Qz	0.03	1.86	4
93	E1-4-11	E1-4	74.10-74.20	Si+Py	53.37	63.16	10
94	E1-4-12	E1-4	74.64-74.84	Py	0.49	1.73	20
95	E1-4-13	E1-4	81.60-81.80	Py	0.20	1.73	20
96	E1-4-14	E1-4	83.00-83.35	Py	0.07	2.26	35
97	E1-4-15	E1-4	83.85-83.95	Py	0.02	1.99	10
98	E1-4-16	E1-4	84.60-84.90	Chl	0.01	2.53	30
99	E1-4-17	E1-4	86.75-87.45	Cal, Chl+Py	0.06	1.98	70
100	E1-4-18	E1-4	97.25-97.30	Cal+Py	0.01	1.72	5
101	E1-5-1	E1-5	31.70-32.70	BIF/Si	0.05	1.46	100
102	E1-5-2	E1-5	35.80-36.60	Hmt	0.02	2.25	80
103	E1-5-3	E1-5	37.10-37.70	Hmt	0.03	1.12	40
104	E1-5-4	E1-5	39.80-40.50	Hmt	0.04	1.72	70
105	E1-5-5	E1-5	40.90-41.30	Hmt	0.07	1.98	40
106	E1-5-6	E1-5	49.60-49.80	Py+Qz	0.01	1.98	20
107	E1-5-7	E1-5	54.54-55.20	Si, Cal	0.02	1.46	66
108	E1-5-8	E1-5	55.20-55.90	Si, Cal	0.02	1.72	70
109	E1-5-9	E1-5	70.60-70.65	Py	0.03	1.98	5
110	E1-5-10	E1-5	86.15-86.40	Py	0.02	1.85	25

No.	SAMPLE No.	HOLE No.	DEPTH (m)	MINERALS	ANALYSIS		CORE (cm)
					Au (g/t)	Ag (g/t)	
111	E1-5-11	E1-5	87.65-87.80	Py	0.06	2.84	15
112	E1-5-12	E1-5	90.40-90.75	Py	0.04	2.47	35
113	E1-5-13	E1-5	92.90-93.30	Py	0.03	2.84	40
114	E1-5-14	E1-5	93.60-93.95	Py	0.05	3.34	35
115	E1-5-15	E1-5	94.75-94.95	Py	0.26	4.33	20
116	E1-5-16	E1-5	95.45-95.90	Py	0.34	3.34	45
117	E1-6- 1	E1-6	34.80-35.20	Hmt	0.08	2.60	40
118	E1-6- 2	E1-6	36.50-37.40	Hmt	0.07	3.12	90
119	E1-6- 3	E1-6	37.40-38.00	Arg	0.06	2.62	60
120	E1-6- 4	E1-6	38.60-38.70	Hmt	0.05	2.12	10
121	E1-6- 5	E1-6	39.86-40.10	Hmt	0.01	2.12	24
122	E1-6- 6	E1-6	41.85-42.35	Hmt	0.13	3.12	50
123	E1-6- 7	E1-6	44.20-45.20	Shear	0.02	2.24	100
124	E1-6- 8	E1-6	59.65-59.77	Si+Py	0.04	2.12	12
125	E1-6- 9	E1-6	63.20	Qz	0.04	1.88	3
126	E1-6-10	E1-6	91.67-92.55	Py	0.01	2.13	88
127	E1-6-11	E1-6	92.55-93.35	Py	0.01	3.13	80
128	E1-6-12	E1-6	95.56-96.46	Py	0.04	3.75	90
129	E1-6-13	E1-6	96.46-97.36	Py	0.05	2.88	90
130	E1-6-14	E1-6	97.36-98.26	Py	0.02	3.38	90
131	E1-6-15	E1-6	98.26-99.16	Py	0.01	2.63	90
132	E1-7- 1	E1-7	32.81	Shear	0.01	1.63	
133	E1-7- 2	E1-7	37.80-39.40	Py	0.01	2.63	160
134	E1-7- 3	E1-7	43.88-44.68	Si	0.03	2.38	80
135	E1-7- 4	E1-7	48.33-49.41	Fault	0.01	2.13	108
136	E1-7- 5	E1-7	59.80-60.20	Fault	0.02	2.25	40
137	E1-7- 6	E1-7	68.52-68.72	Qz+Py	0.04	3.63	80
138	E1-7- 7	E1-7	71.64-71.71	Qz+Py	0.01	3.38	7
139	E1-7- 8	E1-7	79.20-79.25	Si+Chl	0.03	2.50	5
140	E1-8- 1	E1-8	18.76	Arg	0.01	2.00	
141	E1-8- 2	E1-8	26.88	Shear	0.01	1.88	
142	E1-8- 3	E1-8	46.05-46.35	BIF	0.02	1.25	30
143	E1-8- 4	E1-8	47.45-47.65	Shear	0.03	2.25	20
144	E1-8- 5	E1-8	48.62-49.62	Fault	0.01	2.50	100
145	E1-8- 6	E1-8	49.62-50.62	Fault	0.01	2.50	100
146	E1-8- 7	E1-8	60.70-61.15	Hmt	0.01	3.50	45
147	E1-8- 8	E1-8	79.75-79.95	Py+Cal	0.01	2.63	20
148	E1-8- 9	E1-8	81.52-81.77	Py	1.00	3.12	4
149	E1-8-10	E1-8	84.53-84.88	Si+Py	0.02	2.88	35
150	E1-8-11	E1-8	86.40-87.20	Hmt	0.02	3.13	80
151	E1-9- 1	E1-9	20.07	Si+Qz	1.28	4.25	
152	E1-9- 2	E1-9	38.74-39.50	Si, Chl	0.07	1.93	76
153	E1-9- 3	E1-9	41.50-43.91	Si+Py, Hmt	0.07	1.54	241
154	E1-9- 4	E1-9	43.91-45.15	Si+Py, Hmt	0.03	1.67	124
155	E1-9- 5	E1-9	48.25-48.78	Hmt	0.09	1.42	53
156	E1-9- 6	E1-9	48.78-50.00	Hmt	0.02	2.19	122
157	E1-9- 7	E1-9	50.31-50.90	Si+Py	0.09	1.54	59
158	E1-9- 8	E1-9	51.84-52.17	Shear	0.02	2.16	33
159	E1-9- 9	E1-9	59.75-60.68	Hmt	0.02	1.78	93
160	E1-9-10	E1-9	60.06-61.08	Hmt	0.13	1.91	102
161	E1-9-11	E1-9	61.08-62.10	Hmt	0.03	1.65	102
162	E1-9-12	E1-9	62.10-62.73	Hmt	0.02	1.91	63
163	E1-9-13	E1-9	62.73-63.58	Hmt	0.02	2.29	85
164	E1-9-14	E1-9	68.00-68.51	Hmt	0.02	3.69	51
165	E1-9-15	E1-9	86.60-87.25	Shear+Hmt	0.01	1.27	65

No.	SAMPLE No.	HOLE No.	DEPTH (m)	MINERALS	ANALYSIS		CORE (cm)
					Au (g/t)	Ag (g/t)	
166	E1-9-16	E1-9	96.86-96.96	Qz+Py	0.67	3.46	10
167	E1-10-1	E1-10	34.50-35.40	Py	0.19	2.69	90
168	E1-10-2	E1-10	38.00-38.65	Py	0.02	19.62	65
169	E1-10-3	E1-10	38.65-39.35	Si+Arg	0.14	2.18	50
170	E1-10-4	E1-10	42.00-42.80	Arg+Hmt	0.10	2.82	80
171	E1-10-5	E1-10	42.80-43.70	Arg+Hmt	0.28	2.95	90
172	E1-10-6	E1-10	47.70-48.64	Hmt	0.01	6.74	94
173	E1-10-7	E1-10	48.64-49.72	Hmt	0.01	4.20	108
174	E1-10-8	E1-10	49.72-51.00	Hmt	0.03	2.42	128
175	E1-10-9	E1-10	51.00-52.00	Hmt	0.02	2.54	100
176	E1-10-10	E1-10	54.30-54.48	Hmt, Py	0.01	2.16	18
177	E1-10-11	E1-10	54.85	Qz	0.02	2.42	2
178	E1-10-12	E1-10	55.35-55.42	Qz	0.01	4.45	3
179	E1-10-13	E1-10	56.27-56.42	Py+Hmt	0.15	3.76	15
180	E1-10-14	E1-10	58.15-58.30	Qz	0.06	2.63	15
181	E1-10-15	E1-10	58.75-58.95	Qz+Py	0.02	2.63	2
182	E1-10-16	E1-10	85.20-86.80	Py	0.04	3.38	160
183	E1-10-17	E1-10	86.80-87.70	Py	0.04	2.51	90
184	E1-10-18	E1-10	87.70-88.70	Py	0.03	2.88	100
185	E1-10-19	E1-10	88.70-90.10	Py	0.01	2.63	140
186	E1-11-1	E1-11	38.40-38.65	Hmt+Py	0.02	2.63	15
187	E1-11-2	E1-11	39.60-40.10	Hmt	0.03	2.88	50
188	E1-11-3	E1-11	44.47	Hmt, Py	0.01	2.13	
189	E1-11-4	E1-11	52.35-53.54	Py	0.01	2.63	119
190	E1-11-5	E1-11	56.82-57.67	Py, Hmt	0.04	2.13	85
191	E1-11-6	E1-11	59.08-59.18	Hmt, Py	0.16	3.09	10
192	E1-11-7	E1-11	61.20-62.52	Hmt	0.01	2.21	132
193	E1-11-8	E1-11	62.52-63.20	Hmt	0.07	2.50	68
194	E1-11-9	E1-11	69.94-70.76	Py	0.07	3.09	82
195	E1-11-10	E1-11	70.76-71.66	Py	0.04	3.38	90
196	E1-11-11	E1-11	71.66-72.72	Py	0.03	2.06	86
197	E1-11-12	E1-11	72.72-73.77	Py	0.05	2.21	105
198	E1-11-13	E1-11	73.77-74.40	Py	0.11	2.75	63
199	E1-11-14	E1-11	77.00-77.72	Py	0.04	2.31	72
200	E1-11-15	E1-11	77.40-77.45	Qz+Py	0.05	2.89	5
201	E1-11-16	E1-11	79.65-80.20	Qz+Py	0.05	2.89	55
202	E1-11-17	E1-11	81.96-82.26	Py	0.05	2.75	30
203	E1-11-18	E1-11	83.91-84.90	Py	0.08	2.17	99
204	E1-11-19	E1-11	84.90-85.94	Py	0.05	3.18	105
205	E1-11-20	E1-11	85.94-86.60	Py	0.02	3.00	65
206	E1-11-21	E1-11	89.25-90.10	Py	0.02	2.29	85
207	E1-11-22	E1-11	91.55-92.00	Py	0.02	2.14	45
208	E1-11-23	E1-11	92.45-92.90	Py	0.03	2.43	45
209	E1-11-24	E1-11	95.60-96.80	Py	0.04	2.57	120
210	E1-12-1	E1-12	30.90-31.20	Arg+Hmt	0.03	2.14	33
211	E1-12-2	E1-12	34.60-34.90	Hmt, Py	0.09	2.14	30
212	E1-12-3	E1-12	53.07-53.60	Qz+Py	0.01	2.60	53
213	E1-12-4	E1-12	54.74-55.30	Py	0.05	2.89	56
214	E1-12-5	E1-12	55.30-56.00	Py	0.05	2.02	70
215	E1-12-6	E1-12	81.68-82.58	Py+Chl	0.04	3.32	90
216	E1-12-7	E1-12	86.00-86.80	Py	0.08	3.03	80
217	E1-12-8	E1-12	87.99-88.45	Py	0.06	2.75	50
218	E1-12-9	E1-12	91.65-92.40	Py	0.63	2.89	75
219	E1-12-10	E1-12	95.45-94.65	Py	0.06	2.16	20
220	E1-12-11	E1-12	98.76-99.40	Py	0.06	3.16	64
221	E1-12-12	E1-12	99.40-100.10	Py	0.03	2.73	70

No.	SAMPLE No.	HOLE No.	DEPTH (m)	MINERALS	ANALYSIS		CORE (cm)
					Au (g/t)	Ag (g/t)	
222	C2-1-1	C2-1	16.10-16.18	Qz, Cal+Py	0.1	2.16	3.4
223	C2-1-2	C2-1	28.65-28.90	Py, Po dis	0.03	2.87	25
224	C2-1-3	C2-1	38.05-38.15	Qz+Py, Cp	1.87	6.75	3
225	C2-2-1	C2-2	31.20-35.15	Cal, Qz+Py	0.06	3.3	30
226	C2-2-2	C2-2	38.97-39.17	Py+Qz	0.02	3.16	20
227	C2-2-3	C2-2	64.03-64.18	Qz+Py, Cp	0.08	2.73	4

ABBREVIATION

Qz: Quartz
 Cal: Calcite
 Chl: Chlorite
 Arg: Argile/Clay
 Si: Silicification
 Shear: Shear zone
 BIF: Banded Iron Stone
 Py: Pyrite
 Hmt: Hematite
 Lmt: Limonite
 Po: Pyrrhotite
 Cp: Chalcopyrite
 Spd: Sulphide minerals
 ntw: network

QP: Quartz porphyry
 Sch: Schist
 Dc: Dacite
 Gr: Granite
 Tf: Tuff
 Bs: Basalt
 Ad: Andesite

TS: Thin Section
 PO: Polished Section
 HT: Homogenization Temperature

APPENDIX 2. Results of Microscopic Identification

of Thin Sections

SAMPLE No.	HOLE No.	DEPTH (m)	GEOLOGY	Pl	Qz	Kf	Ap	Ca	Mu	Bi	Ch	Ep	Texture
TS-1	A3-2	93.60	QP	⊙	○	△			○	○			blastoporphyritic
TS-2	A3-3	88.50-92.80	Sch	⊙	○	△		△	○	○			granoblastic
TS-3	A3-4	17.10-29.96	Dc	⊙	⊙	△	*	△	△	○			blastoporphyritic
TS-4	A3-5	68.80-80.35	Sch	○	⊙	△	*	*	△	○			blastoporphyritic
TS-7	E1-6	74.30-74.50	Tf	△	△		*	⊙	*		*	*	granoblastic
TS-8	E1-6	86.02-100.00	Bs	△	△		*	⊙	*		○		granoblastic
TS-9	E1-7	37.80-100.00	Dc	△	△		*	⊙	*		○		
TS-10	E1-8	61.60-70.00	Ad	△	○		*	△	*		⊙		
TS-11	E1-9	78.19-93.80	QP	△	○		*	⊙	*		⊙		
TS-12	E1-10	90.00-100.00	Ad	△	△		*	○			⊙		

Sample No.	Hole No.	Depth (m)	Geology	Phenocryst						Groundmass						Secondary	Texture
				Pl	Qz	Hb	Bi	Kf	Pl	Qz	Kf	Ac					
TS-5	A3-8	11.50	Gr	○	○		△	*		○	○	△	*		Se, Ch, Ca	porphyritic	
TS-6	E1-1	68.30-74.15	Dc	○	△					○	○	△	*		Ca, Se	carbonitization	
TS-13	C2-1	90.00	QP	○	○	○	△			○	△	△	*		Se, Ch, Ep	porphyritic	

Pl: Plagioclase
 Qz: Quartz
 Kf: Potash Feldspar
 Ap: Apatite
 Ca: Calcite
 Mu: Muscovite
 Bi: Biotite
 Ch: Chlorite
 Ep: Epidote
 Hb: Hornblende
 Ac: Accessory minerals
 Se: Sericite

⊙ : abundant ○ : common △ : present * : poor

APPENDIX 3. Results of Microscopic Identification

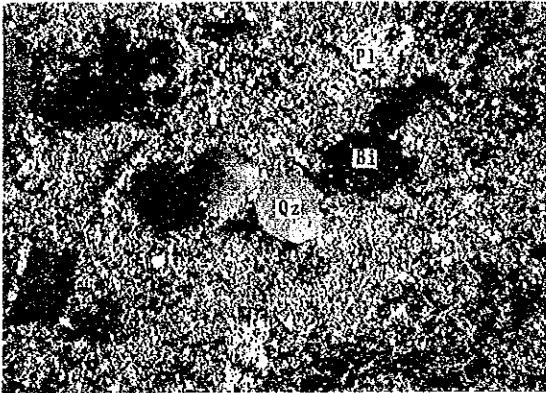
of Polished Sections

Sample No.	Hole No.	Depth (m)	Ore Mineral										Gang			Remarkable Texture		
			Au	Py	Ma	Po	As	Cp	Sp	Il	Mt	He	FH	Qz	Ca			
P0-1	A3-2	37.55	○						*							△	○	
P0-2	A3-2	64.80(1)	•			•	*		*									
P0-3	A3-2	64.80(2)	•		•	△	•	*	*	*							○	
P0-4	A3-5	28.60	△		•	△											○	Pentlandite
P0-5	E1-1	56.00	○					*	*								○	
P0-6	E1-4	41.95												◎				accicular He
P0-7	E1-5	92.72	*	△		*	*		*									3 micron Au
P0-8	E1-6	59.70		△				*	*									cubic Py
P0-9	E1-6	99.00		△				*	*									
P0-10	E1-8	62.72		△					*									
P0-11	E1-8	68.25	*	△												△	△	1 micron Au
P0-12	E1-10	54.40		△				*	*								○	
P0-13	E1-10	56.40		*				*	*							△		Goethite△
P0-14	E1-10	93.00		△				*	*								◎	
P0-15	E1-11	90.10		◎				*	*									Cc*

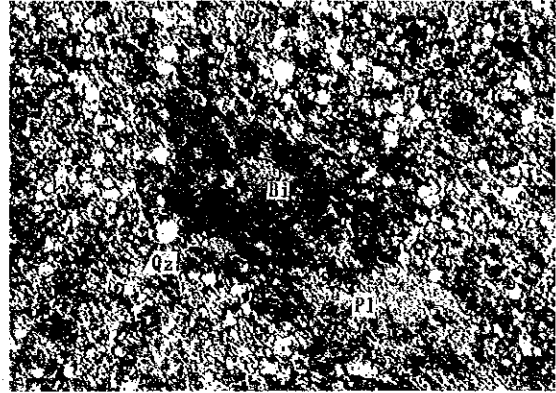
Au: Electrum As: Arsenopyrite Mt: Magnetite Qz: Quartz
 Py: Pyrite Cp: Chalcopyrite He: Hematite Ca: Calcite
 Ma: Marcasite Sp: Sphalerite FH: Fe-Oxide
 Po: Pyrrhotite Il: Ilmenite Cc: Chalcocite

◎: abundant ○: common △: present •: poor *: rare

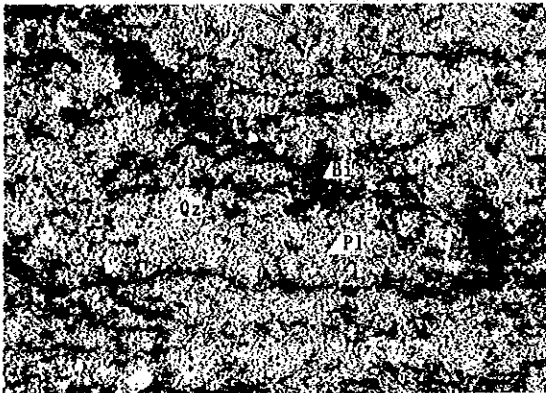
APPENDIX 4. Photomicrographs of Thin Sections



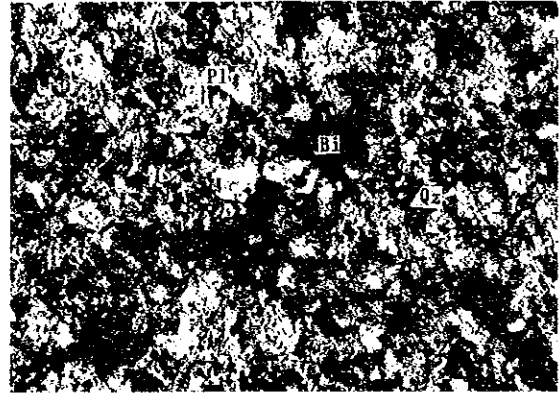
Sample No. : A3-2/ 93.6 m Crossed nicols
 Rock Type : Quartz porphyry
 Note : Blastoporphyritic 0.5 mm



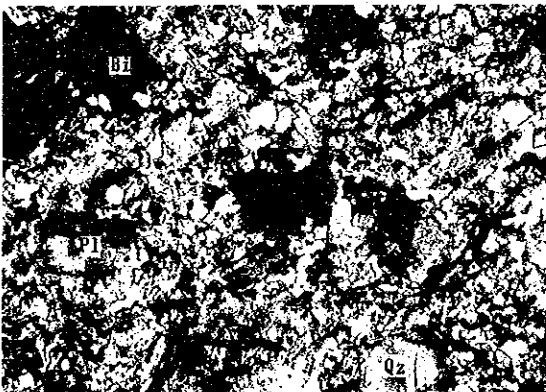
Sample No. : A3-2/ 93.6 m Crossed nicols
 Rock Type : Quartz porphyry
 Note : Pelitic fragments included 0.1 mm



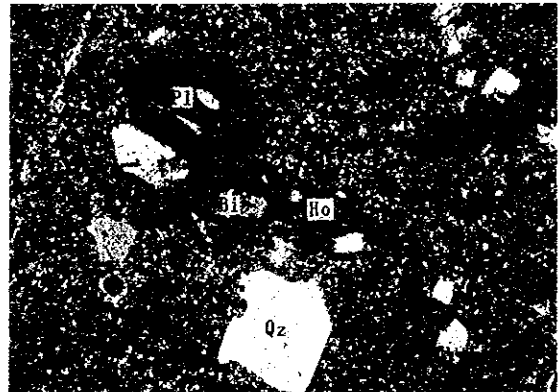
Sample No. : A3-3/ 91.0 m Open nicol
 Rock Type : Pelitic Hornfels
 Note : 0.5 mm



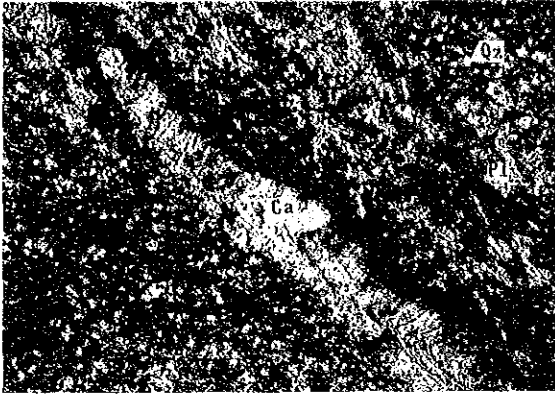
Sample No. : A3-5/ 73.7 m Crossed nicols
 Rock Type : Quartz porphyritic
 Note : Blastoporphyritic 0.5 mm



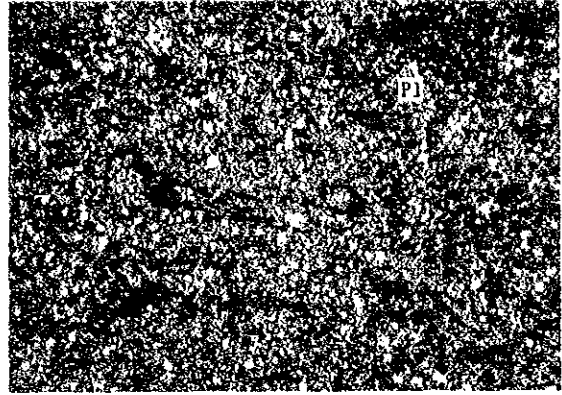
Sample No. : A3-8/ 11.5 m Crossed nicols
 Rock Type : Biotite granodiorite
 Note : Porphyritic 0.5 mm



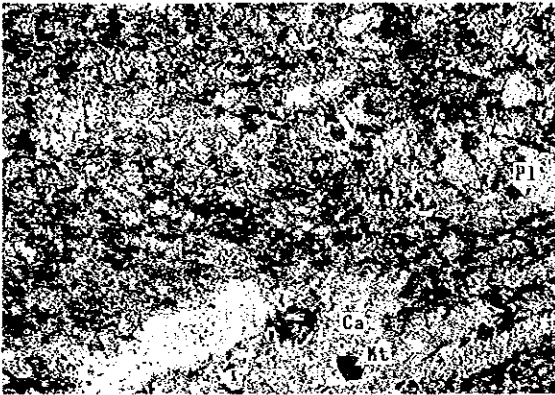
Sample No. : C2-1/ 90 m Crossed nicols
 Rock Type : Quartz porphyry
 Note : Phenocryst of Hornblende and Biotite 0.5 mm



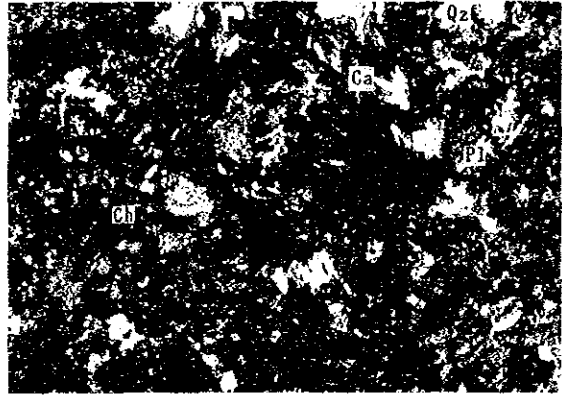
Sample No. : E1-1/ 72 m Crossed nicols
 Rock Type : Altered Dacite
 Note : Carbonitization 0.5 mm



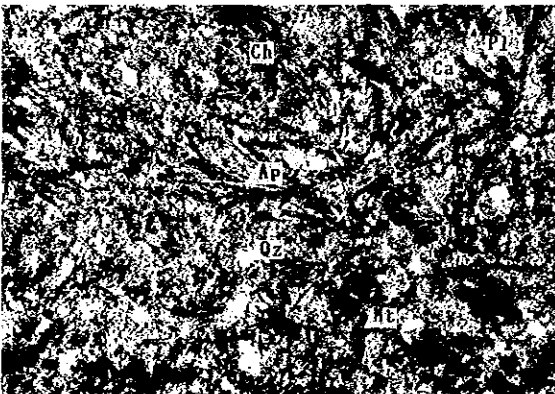
Sample No. : E1-1/ 72 m Crossed nicols
 Rock Type : Dacite
 Note : Carbonitization 0.5 mm



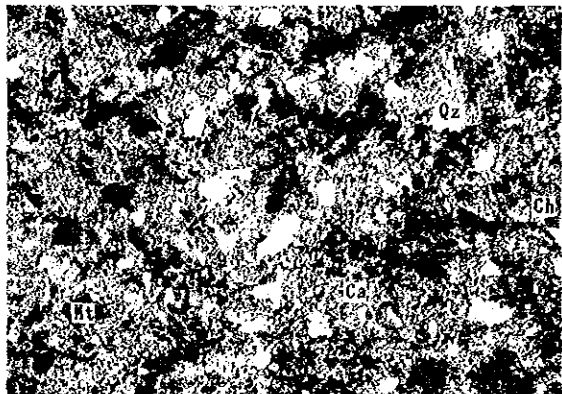
Sample No. : E1-6/ 89 m Open nicol
 Rock Type : Basic tuff
 Note : Deccussate texture 0.5 mm



Sample No. : E1-7/ 45 m Crossed nicols
 Rock Type : Quartz diorite porphyry
 Note : Porphyritic 0.5 mm

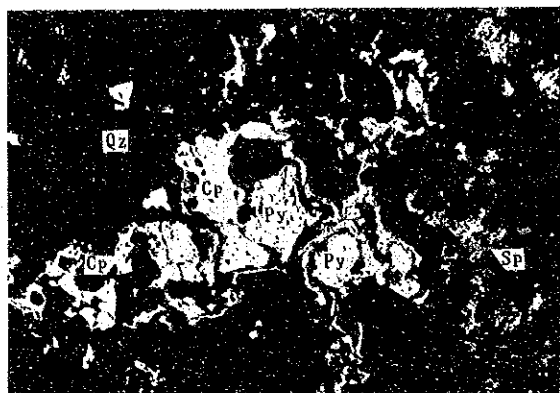


Sample No. : E1-8/ 61.6 m Open nicol
 Rock Type : Basic lava
 Note : Granoblastic 0.5 mm



Sample No. : E1-9/ 90 m Open nicol
 Rock Type : Basic lava
 Note : Deccussate texture 0.5 mm

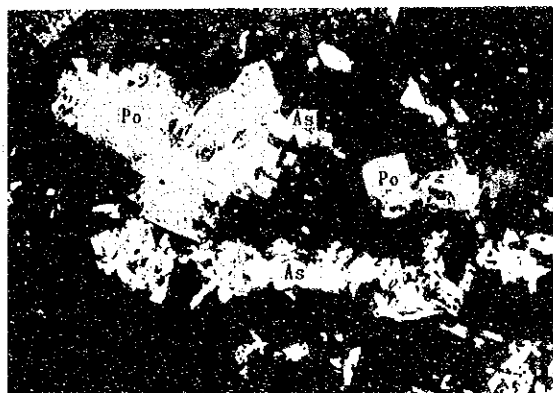
APPENDIX 5. Photomicrographs of Polished Sections



Sample No. : A3-2/ 37.55 m

Note : Intergrowth of chalcopyrite
and pyrite

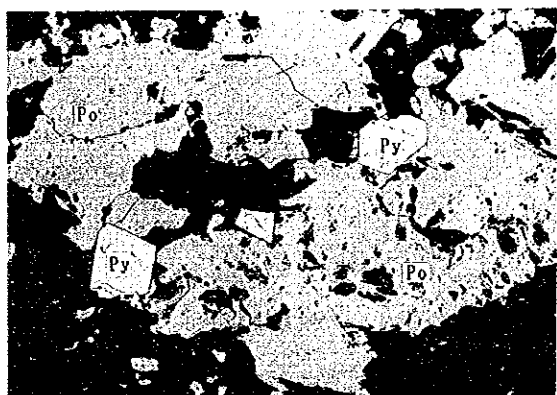
0.1 mm



Sample No. : A3-2/ 64.8 m

Note : Pyrrhotite and arseno-
pyrite laths

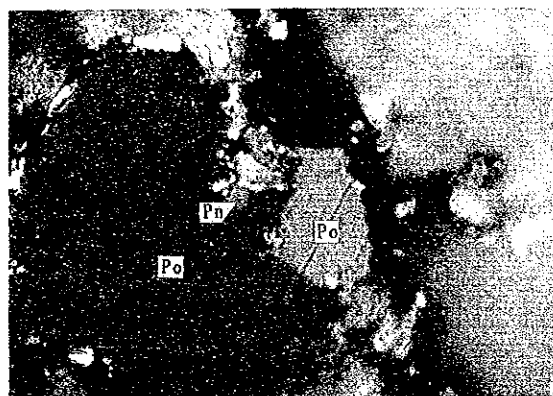
0.1 mm



Sample No. : A3-2/ 64.8 m

Note : Intergrowth of pyrite
and pyrrhotite

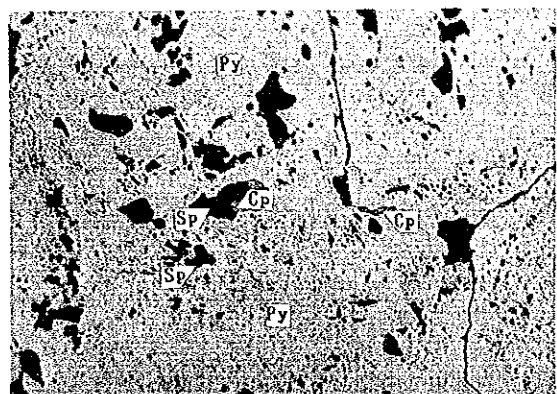
0.1 mm



Sample No. : A3-5/ 28.6 m

Note : Pentlandite in pyrrho-
tite

0.1 mm



Sample No. : E1-1/ 56.0 m (a)

Note : Pyrite grains

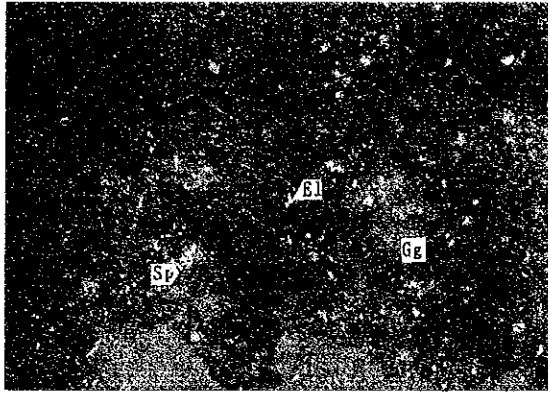
0.05 mm



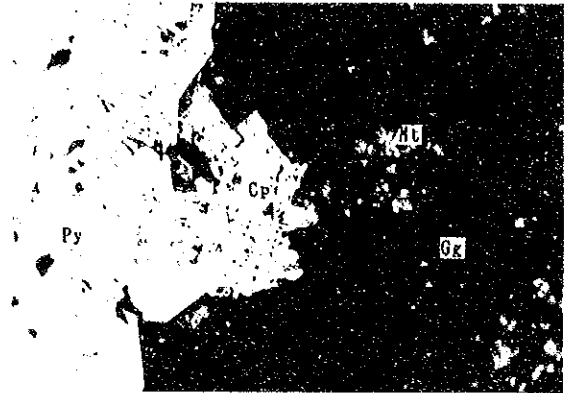
Sample No. : E1-1/ 56.0 m (b)

Note : Micrograins of chalco-
pyrite and sphalerite
in pyrite

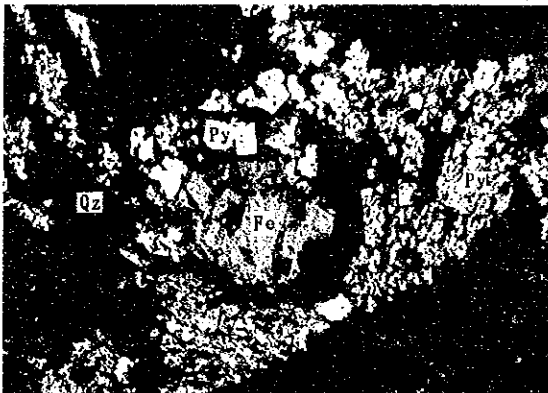
0.1 mm



Sample No. : E1-5/ 92.7 m
 Note : Micrograins of electrum
 in gangue minerals 0.05 mm



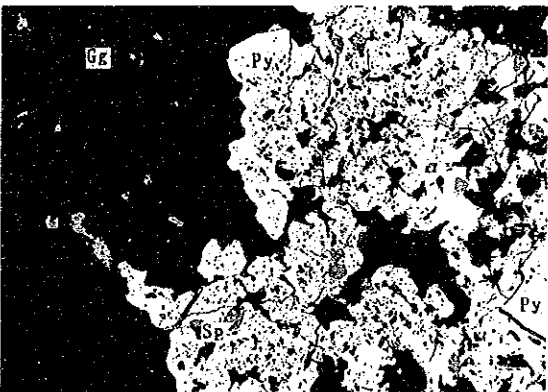
Sample No. : E1-6/ 99 m
 Note : Chalcopyrite with pyrite
 crystal 0.05 mm



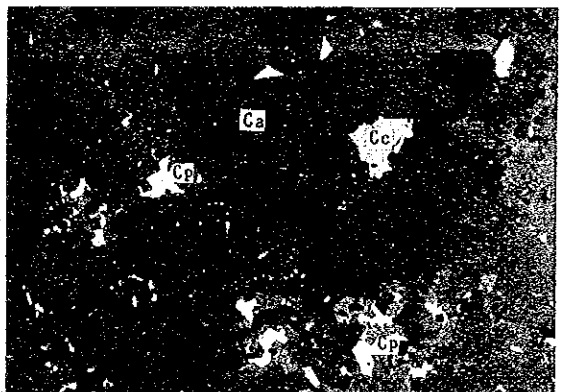
Sample No. : E1-8/ 82.72 m
 Note : Pyrite dissemination 0.1 mm



Sample No. : E1-10/ 54.4 m
 Note : Pyrite pseudomorph
 replaced with goethite 0.1 mm



Sample No. : E1-11/ 90.10 m (a)
 Note : Pyrite including
 sphalerite dots 0.1 mm



Sample No. : E1-11/ 90.10 m (b)
 Note : Chalcocite and Chalco-
 pyrite specks in calcite 0.1 mm

APPENDIX 6. Homogenization Temperature of Fluid Inclusions

(1)

No.	1	2	3	4	5	6	7	8	9	10
SAMPLE No.	HT-1	HT-2	HT-3	HT-4	HT-5	HT-6	HT-7	HT-8	HT-9	HT-10
HOLE No.	A3-1	A3-2	A3-2	A3-4	A3-5	A3-6	A3-7	E1-1	E1-1	E1-4
DEPTH (m)	21.00	37.50	64.80	96.77	28.57	33.70	23.56	85.15	96.60	74.10
MINERALS	Qz	Cal+Qz	Qz	Qz	Qz	Qz	Qz+Si	Qz	Qz	Qz
TEMPERATURE	120	N D	N D	187	163	155	N D	161	202	N D
	124			188	191	155		186	176	
	117			186	188	135		193	165	
	120			188	186			176	202	
	140			140	156			124	186	
	120			142	159			165	182	
	151			148	171			139	191	
	143			155	167			120	185	
	154			151	190			135	154	
	123			273	176			148	152	
	125				144			130	153	
	149				148			165	148	
	145				163			207	170	
	180				180			170	150	
	152				171			163	169	
	123				162			168	169	
	123				172			170	132	
	138				169			173	149	
	144				157			126	144	
	126				144			153	145	
124				165			200	145		
145										
140										
N	23			10	21	3		21	21	
MEAN	135.9			175.8	167.7	148.3		160.5	165.1	
DEVIATION	15.27			37.70	13.75	9.428		24.42	19.82	
* N D : Not Detected										

(2)

No.	11	12	13	14	15	16	17	18	19	20
SAMPLE No.	HT-11	HT-12	HT-13	HT-14	HT-15	HT-16	HT-17	HT-18	HT-19	HT-19B
HOLE No.	E1-5	E1-6	E1-7	E1-7	E1-9	E1-10	E1-10	E1-10	E1-10	E1-10
DEPTH (m)	69.00	63.20	44.68	68.52	96.86	54.85	55.35	58.15	58.85	58.85
MINERALS	Qz+Cal	Qz	Qz	Qz+Cal	Qz	Qz	Qz	Qz	Qz	Qz
TEMPERATURE	N D	N D	132	N D	N D	133	116	129	116	121
			150			126	116	128	114	120
			154			130	117	125	114	118
			156			150	112	130	116	119
			166			150	117	126	116	117
			140			148	117	126	116	119
			147			152	113	126	119	134
			132			152	114	123	117	116
			137			156	113	140	120	115
			135			159	111	129	114	110
			156			144	116	135	112	112
			132			154	115	130	111	112
			147			166	120	131	134	128
			140			125	123	131	117	112
			134			159	120	133	116	114
			132			157	122	136	120	132
			132			147	120	142	116	123
			138			128	112	136	122	115
			159			151	114	143	122	145
			135			130	112	131	137	139
		145			135	122	130	119	149	
		147			128	120	137	120	144	
		184			150		139		134	
							139		118	
N			23			23	22	24	22	24
MEAN			144.7			144.7	116.4	132.2	118.5	123.5
DEVIATION			12.93			12.21	3.589	5.533	6.088	11.39
	* N D : Not Detected									

(3)

No.	21	22	23	24	25
SAMPLE No.	HT-20	HT-21	HT-22	HT-23	HT-24
HOLE No.	E1-10	E1-11	C2-1	C2-1	C2-2
DEPTH (m)	93.00	77.40	38.05	53.25	64.03
MINERALS	Cal	Qz	Qz	Qz+Cal	Cal
TEMPERATURE	N D	N D	135	160	N D
			136	138	
			121	133	
			121	117	
			156	130	
			141	117	
			141	125	
			164	122	
			123	125	
			125	127	
			150	116	
			141	160	
			124	129	
			130	120	
			132	133	
			140	140	
			170	121	
		139	123		
		130	125		
		137	132		
N			20	20	
MEAN			137.8	129.6	
DEVIATION			13.31	12.03	
* N D : Not Detected					

