

Appendix 11 Data Sheet of Mineral Prospect

Appendix

Figure 3. Data sheet for Mineral Prospects(I)

Survey area	CAS CHROME		Mineral Prospects		1 (Palanan)		
	WASAYAN I		No.				
Locality *	1/50,000 Topographic map No.	3469I	X * Coordinates	5,100	Y * Coordinates	9,400	Altitud (m) 390
Survey date *	May, 30, '86		Surveyer *	T. FUKASAWA, A. CAEANTOG			
Sampling date (file No.)			Owner of mining right	CAS CHROME			
Metalogenic province			Type of Ore Deposits *	Layered		Country rock of Ore Deposits *	Dunite
One mineral Assemblage	by field observation.* Chromite Garnierite (Minor)					by x-Ray diffraction	
Change mineral Assemblage	by field observation.* Serpentine Calcite					by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.* Serpentine					by x-Ray diffraction	
Consination of * country rocks	Pyroxene- Peridotite, Dunite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode											
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	D	Follow up survey is need less	Other Fossils						
									Spot Investigation	A	B	C	D	E
Ore Prospects for Evaluation														
Other specially Mentions		<p>This mine is the only operating mine in Palapan Area. Shipped chrome ore from 1983 totaling 9 shipping with 1,300 - 2,000 t/shipping. *</p> <p>Granular Chromite in laterite zone.</p> <p>Ore type ; Massive Chromite in bed rock zone.</p> <p>* Washing plant for ore in laterite zone.</p> <p>Production; 400 t conc./ month, Ore Grade; 48 % Cr₂O₃</p> <p>The chromite lense is relatively thin (20 - 30 cm) but massive chromite lense is 2 m in width and shows irregular shape.</p>												

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	CAS CHROME WASAYAN 2		Mineral Prospects No.		2 (Palanan)		
	1/50,000 Topographic map No.	3469I	X * Coordinates	5,500	Y * Coordinates	9,800	Altitud 405 (m) *
Locality	May, 30, 1986		Surveyer	T. FUKASAWA, A. CABANTOG			
Survey date			Owner of mining right	CAS CHROME			
Geological data (file No.)			Type of Ore Deposits	Layered	Country rock of Ore Deposits		
Metalogenic province					Dunite		
One mineral assemblage	by field observation.* Chromite			by micro-scope	by x-Ray diffraction		
Gangue mineral assemblage	by field observation.* Serpentine			by micro-scope	by x-Ray diffraction		
Alteration mineral assemblage	by field observation.* Serpentine			by micro-scope	by x-Ray diffraction		
Combination of country rocks				Pyroxene-Peridotite, Dunite			

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Nanno-Plankton		Other Fossils		Follow up survey is
Investigation of Fossils	Radiolaria						
	Necessity of follow up survey is highest	Necessity of follow up survey is high	(C) follow up survey is reliable	Follow up survey is low	Follow up survey is needless		
	A	B	C	D	E		
Evaluation for Ore Prospects	Spot Investigation						
	Results of Geochemical & other analysis	"	"	"	"	"	"
	Summerized Evaluation	"	"	"	"	"	"
<p>Mine operation suspended due to the depletion of ore. No chromite lens was observed. The rock has been weathered to laterite soil almost all the area, and saprolite zone is limited to small area in the center of the pit.</p>							
<p>Other specially Mentions</p>							

Appendix

Figure 3, Data sheet for Mineral Prospects (I)

Survey area	DIMAKAWAL		Mineral Prospects No.		3 (Palanan)			
	1/50,000 Topographic map No.	3469IV	X Coordinates	21,750	Y Coordinates	8,250	Altitud	820 (m)
Locality *	June, 8, '86 June, 10, '86		Surveier *	T. FUKASAWA, S. BAPTISTA				
Survey date *			Owner of Mining right	Black Rock Mining Corp. Acoje Mining.				
Compiling date (file No.)			Type of Ore Deposits *	Strata bound and Vein type	Country rock of Ore Deposits *	Pillow basalt		
Metallogenic province			by micro-scope	by x-Ray diffraction				
One mineral Assemblage	by field observation.* Mn; Primary Manganese Ore Cu; Chalcopyrite, Bounite, Azurite, Malacite and Pyrite		by micro-scope	by x-Ray diffraction				
Cangue mineral Assemblage	by field observation.* Quartz, Hematite, Goethite and Limonite.		by micro-scope	by x-Ray diffraction				
Alternation mineral Assemblage	by field observation.* Silicification, Pyritization		by micro-scope	by x-Ray diffraction				
Combination of country rocks *	Tuffaceous sediment at the top of the deposit.							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode										
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Other Fossils	Follow up survey is needless						
								Spot Investigation	A	B	C	D	E
								Results of Geochemical & other analysis	A	B	C	D	E
Evaluation for Ore Prospects	Summarized Evaluation	A	B	C	D	E	F						
								Summarized Evaluation	A	B	C	D	E
								Summarized Evaluation	A	B	C	D	E
<p>This type deposit resembles that of the Cyprus type of copper deposit, Because of its close association with pillow basalt flows, but they are covered by tuffaceous sediment and accompanied by quartz veins. Some quartz veins are known and some of them are auriferous. Quartz vein has been mined for gold (which precipitate along the vein cracks.)</p> <p>Three of the vein systems are observed in upper levels.</p> <ol style="list-style-type: none"> 1. N10E, 90° dip; Width 1 m 2. N40E 50°S dip; " 2 m 3. N10E 90° dip; " 1 m <p>It is assumed that lower level is mainly copper zone with spot of primary manganese mineral and upper level is secondary manganese zone.</p>													
<p>Other specially Mentions</p>													

Appendix

Figure 3. Data sheet for Mineral Prospects(I)

Survey area	DINAPIQUI RIVER Upstream		Mineral Prospects No.		4 (Palanan)	
	1/50,000 Topographic map No.	3469IV	X Coordinates	Y Coordinates	Altitud	640 (m)
Locality *						
Survey date *	June, 9, '86		Surveier *	T. FUKASAWA		
Compiling date (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits *	Vein type	Country rock of Ore Deposits *	Basalt
One mineral Assemblage	by field observation.* Pyrite, Chalcopyrite		by micro-scope	by x-Ray diffraction		
Gengue mineral Assemblage	by field observation.* Quartz		by micro-scope	by x-Ray diffraction		
Alteration mineral Assemblage	by field observation.*		by micro-scope	by x-Ray diffraction		
Concination of country rocks *	Basalt					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		Nanno-Plankton		Other Fossils					
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is highest	B	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	D	Me necessity of follow up survey is low	E	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"	E	"
	Summerized Evaluation	A	"	B	"	C	"	D	"	E	"
Other specially Mentions		<p>These area has several quartz vein systems near the junction. But these veins are narrow and two of these are barren quartz vein. The other one has a structure of banding of ore minerals.</p>									

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIMARATNO Upstream Tributary		Mineral Prospects No.		5 (Palanan)			
	1/50,000 Topographic map No.	3469 I	X Coordinates	500	Y Coordinates	16250	Altitude	490 (m)
Locality *								
Survey date *	June 3, '86		Surveier *		T, Fukasawa			
Compiling date (file No.)			Owner of mining right					
Metalogenic province			Type of Ore Deposits *		Vein type		Country rock of Ore Deposits *	Andesite
One mineral Assemblage	by field observation*	Pyrite			by micro-scope		by x-Ray diffraction	
Gangue mineral Assemblage	by field observation*	Quartz			by micro-scope		by x-Ray diffraction	
Alternation mineral Assemblage	by field observation*				by micro-scope		by x-Ray diffraction	
Combination of country rocks *		Andesite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode		
Evaluation for Ore Prospects	Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils	
	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Fossibility of follow up survey is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	C	D
	Summarized Evaluation	A	B	C	E
<p>This veins are a fracture filling vein systems. Quartz is main constituent and is not clear.</p>					
<p>Other specially Mentions</p>					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DISAWIT (KANAIPIANG POINT)		Mineral Prospects No.			6 (Palanan)
	1/50,000 Topographic map No.	3470I	X Coordinates	Y Coordinates	Altitud	
Locality *					23,500	16,700 3 (m)
Survey date *	June, 21, '86		Surveier *	T. FUKASAWA		
Geopling date (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits *	Layered		Country rock of Ore Deposits Pillow basalt and chert
One mineral Assemblage	by field observootion.* Manganese Ore (Massive sulphide)					by x-Ray diffraction
Gangue mineral Assemblage	by field observootion.* Silica					by x-Ray diffraction
Alternation mineral Assemblage	by field observootion.*					by x-Ray diffraction
Combination of country rocks *	Pillow basalt, Manganiferous chert					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode	
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils	
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	"	"
	Summerized Evaluation	A	B	"	"
Other specially Mentions		<p>This showing is located in the boundary of basalt and manganeseiferous chert.</p> <p>Area 1 Sulphide minerals are said to be hosted by manganeseiferous silicified basalt, but due to the former test sampling, no sulphide minerals can be seen with the thick covering of collapsed surface materials.</p> <p>Area 2. Manganese ore interbedded with manganeseiferous chert.</p>			

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	KANAIPANG HILL		Mineral Prospects No.		7 (Palanan)	
	1/50,000 Topographic map No.	3470I	X Coordinates	Y Coordinates	Altitud	100 (m)
Locality *						
Survey date *	June, 21, '86		Survceier *	T. FUKASAWA		
Compiling date (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits	Layered	Country rock of Ore Deposits *	Tuff
One mineral assemblage	by field observation*	Manganese Ore			by x-Ray diffraction	
Genue mineral Assemblage	by field observation*				by x-Ray diffraction	
Alternation mineral Assemblage	by field observation*				by x-Ray diffraction	
Conjination of country rocks *		Silicified tuff, Basalt				

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode		
Investigation of Fossils	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey (D) is reliable	Necessity of follow up survey is low	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	"	"	"
	Summarized Evaluation	A	B	"	"	"
Evaluation for Ore Prospects						
Other specially Mentions	<p>This showing is a small hill up to 3 m high in flat area. Because of the vegetation, no direct contact zone with the country rock can be seen. By the areal survey, the country rock is expected silicified tuffaceous sediment overlying basalt flows.</p>					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIKAPISAN		Mineral Prospects No.		8 (Palanan)			
	1/50,000 Topographic map No.	3470I	X Coordinates	20,500	Y Coordinates	4,400	Altitude	140 (m)
Locality *								
Survey date	June, 29, '86		Surveyer *	T. FUKASAWA, T. KOSEKI				
Compiling date (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Layered		Country rock of Ore Deposits	Dunite	
One mineral assemblage	by field observation.*	Some weakly magnetic Minerals				by x-Ray diffraction		
Congue mineral assemblage	by field observation.*	Serpentine				by x-Ray diffraction		
Alternation mineral assemblage	by field observation.*	Serpentine				by x-Ray diffraction		
Combination of country rocks *	Dunite, Pyroxene-peridotite							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode		
Investigation of Fossils		Radiocaria	Nanno-Plankton	Other Fossils	
Evaluation for Ore Prospects	Spot Investigation	Necessity of follow up survey is highest A	Necessity of follow up survey is high B	Possibility of follow up survey is reliable D	Follow up survey is needless E
	Results of Geochemical & other analysis	"	B	"	"
	Sumnerized Evaluation	"	B	"	"
Other specially Mentions		<p>This outcrop is discovered in dunite. Dunite is minor part of this ultramafic complex, compared with the major part of pyroxene-peridotite in this creek.</p>			

Appendix

figure 3. Data sheet for Mineral Prospects(I)

Survey area	DIKADIAOAN		Mineral Prospects No.		9 (PALANAN)			
Locality *	1/50,000 Topographic map No.	347111	X Coordinates	21,100	Y Coordinates	100	Altitud (m) *	50
Survey date *	July, 3, '86.		Surveyer *	T. Koseki, F. G. Sajona				
Geopling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Strata Bound Manganese	Country rock of Ore Deposits *	Cherty Sediment		
One mineral Assemblage	by field observation.* Undifferentiated Mn Mineral			by micro-scope				
Gangue mineral Assemblage	by field observation.* Clay, Chert			by micro-scope				
Alternation mineral Assemblage	by field observation.* Cherty Sediment			by micro-scope				
Combination of country rocks *								

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode				
Investigation of Fossils		Radioheraria	Nanno-Plankton	Other Fossils			
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is high	B	Possibility of follow up survey is reliable	D	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	D	"
	Summarized Evaluation	A	"	B	"	D	"
<p>Mn.wad alternates with highly fracture cherty sediments , chert is usually manganeseiferous with the quantity of chert from trace to abundant. Fracture in chert are sometimes defines by solutions with no significant effect.</p>							
Other specially Mentions							

Appendix

figure 3, Data sheet for Mineral Prospects(I)

Survey area	GIWED		Mineral Prospects No.		10 (Palanan)			
* Locality	1/50,000 Topographic map No.	34701	X* Coordinates	10,700	Y* Coordinates	10300	Altitud	200 (m)*
* Survey date	July, 6, '86.		Surveier *	T. Koseki, F. G. Sajona				
Compiling data (file No.)			Owner of mining right					
Metalogenic province			Type of Ore Deposits *	Silicified Zone		Country rock of Ore Deposits Andesite (Chert?)		
One mineral Assemblage	by field observation*				by micro-scope			
Gangue mineral Assemblage	Pyrite				by x-Ray diffraction			
Alteration mineral Assemblage	by field observation*		Quartz, Chlorite		by x-Ray diffraction			
Alteration mineral Assemblage	by field observation*		Pyrite, Quartz, Chlorite		by micro-scope			
Combination of country rocks *	Hornblende-andesite, (Chert?)							

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode	
Investigation of Fossils	Radiolaria	Nanno-Plankton		Other Fossils	
	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Necessity of follow up survey is low
	Results of Geochemical & other analysis	A	B	C	D
	Summarized Evaluation	A	B	C	D
Evaluation for Ore Prospects					
<p>Fine dissemination to clusters of pyrite are within silicified zone in hornblende andesite and associated cherty sediments, dykes and sills of hornblende andesite carried with its pyrite mineralization fluids and cut the sediments parallel to bedding. Silicified zone is about 30 m long.</p>					
Other specially Mentions					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIUDENAN		Mineral Prospects No.		11 (Palanan)		
	1/50,000 Topographic map No.	34701	X* Coordinates	10,700	Y* Coordinates	10,300	Altitud 200 (m)*
Survey date	July, 7, '86.		Surveier	T. Koseki, F. G. Sajona			
Compiling data (file No.)	Owner of mining right						
Metallogenic province			Type of Ore Deposits	Vein Type		Country rock of Ore Deposits Andesite	
One mineral Assemblage	by field observation.* Pyrite		by micro-scope				
Gargue mineral Assemblage	by field observation.* Quartz, Chlorite		by micro-scope				
Alternation mineral Assemblage	by field observation.* Pyrite, Quartz, Clay		by micro-scope				
Combination of country rocks	Andesite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode				
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Other Fossils		
						Possibility of follow up survey (b) is reliable	Follow up survey is need less
Spot Investigation	A	B	C	D	E		
Results of Geochemical & other analysis	A	B	C	D	E		
Summarized Evaluation	A	B	C	D	E		
<p>Other specially Mentions</p> <p>An intrusive body of hornblendeandesite cuts through cherty sediments, the andesite is fractured and intruded by quartz veinlets ranging from 10 to 40 cm in width.</p> <p>Silicified zones are also confined to fractures, Pyrite is only the discernible ore mineral associated with the veinlet and silicified zones.</p>							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIBENELANG		Mineral Prospects No.		12 (Palanan)		
	1/50,000 Topographic map No.	347111	X * Coordinates	9,650	Y * Coordinates	14,200	Altitude 140 -200 (m) *
Locality *	May, 31, '86.		Surveyer *	T. Koseki, W. Diegor			
Survey date *			Owner of mining right				
Compiling data (file No.)			Type of Ore Deposits *	(Cumulate Cr) Layered	Country rock of Ore Deposits *	Serpentinized Dunite	
Metallogenic province	Northern Sierra Madre Ultramafic Complex						
One mineral Assemblage	by field observation.* Chromite			by micro-scope		by x-Ray diffraction	
Cargue mineral Assemblage	by field observation.* Olivine Serpentine Pyroxene			by micro-scope		by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.* Serpentine Talc			by micro-scope		by x-Ray diffraction	
Combination of * country rocks	Serpentinized dunite, Serpentinized peridotite, minor pyroxenite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode					
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils				
Ore Prospects Evaluation for	Spot Investigation	A	Necessity of follow up survey is high (B)	C	Possibility of follow up survey is reliable	D	Follow up survey is needless	E
	Results of Geochemical & other analysis	"	"	C	"	D	"	E
	Summarized Evaluation	A	"	C	"	D	"	E
Other specially Mentions		<p>Area is locally called Dibenelang. Two spots were visited; one site is overlain by large boulders and cobbles of massive chromite; and the other one consists of a 3 m thick layer of massive chromite in dunite. The chromite layer in site (2) exhibits grading in the top 0.5 m, indicating crystal settling during formation probably in a magma chamber under an ancient spreading ridge. The intimate relationships of the dunite, peridotite (hartzburgite), chromite bands, pyroxenite dykes and even the floats of layered and massive gabbro probably represent a truncated ophiolite sequences.</p>						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	BICOBIAN		Mineral Prospects No.		13 (Palanan)		
	1/50,000 Topographic map No.	34711	X * Coordinates	15,700	Y * Coordinates	11,000	Altitud
Locality *							80 (m) *
Survey date	July, 4, '86		Surveier *	A. Cabantog, E. Billedo			
Compiling data (file No.)			Owner of mining right	Island Mining and Industrial Corporation (IMIC)			
Metallogenic province			Type of Ore Deposits *	Massive Sulfide	Country rock of Ore Deposits *	Pillow Basalt	
One mineral Assemblage	by field observation.* Bornite, Chalcocite Chalcopyrite, Sphalerite				by x-Ray diffraction		
Gangue mineral Assemblage	by field observation.* Quartz, Pyrite (Chert)				by x-Ray diffraction		
Alteration mineral Assemblage	by field observation.* Argillization, Chloritization, minor Silicification				by x-Ray diffraction		
Combination of country rocks *	Pillow basalt/ Chert with interbed of tuff						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		
Investigation of Fossils	Radioraria	Nanno-Plankton		Other Fossils		
	Spot Investigation	Necessity of follow up survey is highest (A)	Necessity of follow up survey is high (B)	Possibility of follow up survey is reliable (C)	Possibility of follow up survey is low (D)	Follow up survey is needless (E)
	Results of Geochemical & other analysis Sumnerized Evaluation	"	"	"	"	"
Evaluation for Ore Prospects	A	B	C	D	E	"
<p>Massive sulfide deposit is similar to the Cyprus type of deposit. The footwall consists of altered pillow basalt, the massive sulfide and then overlain by bed of chert intercalated with tuffaceous sediments. The rocks collected consists of disseminations of pyrite, sphalerite, chalcocite and chalcopyrite. Stringer mineralizations were also found on the country rocks w/c are the altered pillow basalt.</p> <p>According to the former mine manager, this deposit has produced 150,000 t copper, and some manganese.</p>						
Other specially Mentions						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Port BICOBIAN (LACSON)		Mineral Prospects No.		14 (Palanan)	
	1/50,000 Topographic map No.	347LI	X Coordinates	Y Coordinates	8,400	Altitud (m)
Locality						180
Survey date	July, 5, '86.		Surveier A. Cabantog, E. Billedo			
Compiling data (file No.)			Owner of mining right Island Mining and Industrial Corporation (IMIC)			
Metallogenic province			Type of Ore Deposits		Country rock of Ore Deposits	
One mineral Assemblage	by field observation.* Bornite, Chalcocite, Sphalerite, Chalcopyrite		by micro-scope		Pillow Basalt	
Gangue mineral Assemblage	by field observation.* Quartz, Pyrite		by micro-scope		by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.* Argillization, Silicification and Chloritization		by micro-scope		by x-Ray diffraction	
Concination of country rocks	Pillow basalt/ chert					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode		
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils	
Evaluation for Ore Prospects	Spot Investigation	Necessity of follow up survey is highest (B)	Necessity of follow up survey is high (C)	Possibility of follow up survey is reliable (D)	Follow up survey is needless (E)
	Results of Geochemical & other analysis	"	"	"	"
	Summerized Evaluation	"	"	"	"
Other specially Mentions		<p>The massive sulphide deposit is also similar to the Cyprus type massive sulfide deposit. The foot wall consisting of altered pillow basalt, massive sulfide and overlain by interbeds of chert and tuffaceous sediments. Veinlets of quartz were also observed on the pillow basalt which is likewise chloritized stringer mineralizations were also found. Rock samples collected showed some chalcopyrite, pyrite, bornite and sphalerite disseminations.</p>			

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	BLOS RIVER		Mineral Prospects No.		15 (Palanan)			
* Locality	1/50,000 Topographic map No.	3472III	X* Coordinates	14,300	Y* Coordinates	8,800	Altitude	ASL 110 (m)
* Survey date	June, 6, '86		Surveyer	* Y. Tsuguma				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Weak pyrite dissemination in granodiorite	Country rock of Ore Deposits	* Granodiorite		
One mineral Assemblage	by field observation.* Pyrite			by micro-scope				
Gangue mineral Assemblage	by field observation.* Quartz, Calcite Veinlet			by x-Ray diffraction				
Alternation mineral Assemblage	by field observation.* Silicified, limonitized Pyrite dissemination length about 30 m in granodiorite			by x-Ray diffraction				
Combination of country rocks	* Granodiorite (Acidic intrusive rock)							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode			
Investigation of Fossils		Radioraria		Nanno-Plankton		Other Fossils	
Evaluation for Ore Prospects	Spot Investigation	A	B	Necessity of follow up survey is high	C	Possibility of follow up survey (D) is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	"	C	"	"
	Summarized Evaluation	A	B	"	C	"	"
Other specially Mentions		<p>This showing is located in the left side of the central stream of Blos River at elevation of about 110 m. Quartz and/or calcite veinlets of about 0.5 to 1 cm were also noted at outcrops. As observed in the field, no copper minerals are exist while pyrite is minor to moderate in amount especially along sheared zones that generally trends N 70° E and dips 80° SE.</p>					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DISUDO CREEK		Mineral Prospects No.		1 (Cauayan)			
	1/50,000 Topographic map No.	3469IV	X Coordinates	1550	Y Coordinates	8100	Altitud	300 (m)
Locality *								
Survey date *	June, 23, '86		Surveier *		T. ISAKA, O. PINEDA			
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits		Vein Type		Country rock of Ore Deposits *	Andesite (N)
One mineral	by field observation*						by x-Ray diffraction	
Assemblage			Pyrite		by micro-scope			
Gangue mineral	by field observation*						by x-Ray diffraction	
Assemblage			Quartz		by micro-scope			
Alternation mineral	by field observation*						by x-Ray diffraction	
Assemblage			Chlorite Epidote		by micro-scope			
Composition of country rocks *	N 1 Andesite lava and Andesite dyke in it.							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Other Fossils		
Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils	Follow up survey is	
Evaluation for Ore Prospects	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey (D) is reliable	Follow up survey is needed	Follow up survey is needless
Spot Investigation	A	B	C	E	E
Results of Geochemical & other analysis Summarized Evaluation	"	B	C	"	"
	"	B	C	"	"

Two pyrite-quartz veins are observed in N₁ andesite lava.

Other specially Mentions

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DINA CREEK I		Mineral Prospects No.		2 (Cauayan)			
Locality *	1/50,000 Topographic map No.	3470III	X * Coordinates	23,550	Y * Coordinates	16,200	Altitud	500 (m) *
Survey date *	June, 10, '86.		Surveyer *	T.ISAKA, O. PINEDA				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits *		Vein Type		Country rock of Ore Deposits *	Andesite (N ₁)
One mineral Assemblage	by field observation.*							by x-Ray diffraction
	Pyrite Chalcopyrite							
Gangue mineral Assemblage	by field observation.*							by x-Ray diffraction
	Quartz							
Alternation mineral Assemblage	by field observation.*							by x-Ray diffraction
	Chrorite							
Combination of country rocks *	Andesite (N ₁) and Quartzdiorite intrusive body.							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode	
Investigation of Fossils	Radiolaria			Other Fossils
	Necessity of follow up survey is highest	(B)	Necessity of follow up survey is high	Follow up survey is needless
	Spot Investigation	A	Possibility of follow up survey is reliable	Follow up survey is needless
Ore Prospects Evaluation for	Results of Geochemical & other analysis	A	"	"
	Summarized Evaluation	A	"	"
		A	"	"
<p>Pyrite-quartz network dissemination are observed in this mineralization zone. Following survey is desirable including Dina Creek II zone.</p>				
Other specially Mentions				

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DINA CREEK II		Mineral Prospects No.		3 (cauayan)		
	1/50,000 Topographic map No.	3470111	X * Coordinates	23,450	Y * Coordinates	15,950	Altitude (m) *
Locality							500
Survey date		June, 10, '68	Surveyer *		T. ISAKA, O. PINEDA		
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits *			Country rock of Ore Deposits	
One mineral Assemblage	by field observation*	Chalcopyrite Magnetite Pyrrhotite Pyrite		by micro-scope		by x-Ray diffraction	
Common mineral Assemblage	by field observation*			by micro-scope		by x-Ray diffraction	
Alteration mineral Assemblage	by field observation*	Chlorite		by micro-scope		by x-Ray diffraction	
Combination of country rocks *		Andesite (N ₁) and Quartzdiorite intrusive body.					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		
Investigation of Fossils	Radiolaria	Nanno-Plankton		Other Fossils		
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Follow up survey is needed	Follow up survey is needless	
	A	(B)	C	D	E	
Evaluation for Ore Prospects	Spot investigation	B	C	D	E	
	Results of Geochemical & other analysis	"	"	"	"	
	Summarized Evaluation	A	B	C	D	
Other specially Mentions		<p>Sample of ore assay is collected from floated block, consist of chalcopyrite and magnetite bearing massive pyrrhotite-pyrite. This floated block show different appearance to DINA CREEK I showing, but many ore blocks which have the size of 0.5 x 0.5 m to 3x 3 m scatter along the river, then outcrops of this ore seems to locate near DINA CREEK II.</p>				

Appendix

figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIWAGAO		Mineral Prospects No.		4 (Cauayan)		
* Locality	1/50,000 Topographic map No.	3470III	X* Coordinates	20,700	Y* Coordinates	2,500 Altitud	* 400 (m)
* Survey date	June, 25, '86.		Surveier *	T.ISAKA, O, PINEDA.			
Compiling data (file No.)	Owner of mining right						
Metallogenic province			Type of Ore Deposits *	Vein Type (?)		Country rock of Ore Deposits * N Andesite(?) 1	
One mineral	by field observation*				by x-Ray diffraction		
Assemblage	Pyrite Chalcopyrite Pyrrhotite				by micro-scope		
Gangue mineral	by field observation*				by x-Ray diffraction		
Assemblage	Quartz				by micro-scope		
Alternation mineral	by field observation*				by x-Ray diffraction		
Assemblage	Epidote Quartz				by micro-scope		
Concnation of country rocks *	Andesite, Quartzdiorite and Microdiorite.						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Other Fossils		
Investigation of Fossils	Radioraria	Nanno-Plankton	Other Fossils		
Spot Investigation	Necessity of follow up survey is highest (A)	Necessity of follow up survey is (B) high	Possibility of follow up survey is reliable (C)	Necessity of follow up survey is low (D)	Follow up survey is needless (E)
Results of Geochemical & other analysis Summerized Evaluation	A	B	C	D	E
Ore Prospects for Evaluation for	"	"	C	D	E
Other specially Mentions	"	"	C	D	E

Sample of ore assay is collected from float at river side, the outcrop of this ore still unknown but the outcrop seems to exist in near site according the reasons as follows;

- (1) Floating ore size is boulder.
- (2) The contact between andesite and diorite exist in this site and many mineral showings observed at such contact in Cauayan Area.
- (3) Pyritization and Epidotization are observed in andesite and diorite.

Appendix

figure 3, Data sheet for Mineral Prospects(I)

Survey area	DICAYAN RIVER I		Mineral Prospects No.		5 (Cauayan)	
Locality *	1/50,000 Topographic map No.	3369I	X * Coordinates	16,900	Y * Coordinates	1,350
Survey date *	July, 3, '86		Surveyer *	T. ISAKA, O. PINEDA		
Copying data (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits	Sedimentary Origine	Country rock of Ore Deposits	Calcareous conglomerate
One mineral Assemblage	by field observation*	Hematite Goethite		by micro-scope	by x-Ray diffraction	
Genue mineral Assemblage	by field observation*	Calcite		by micro-scope	by x-Ray diffraction	
Alternation mineral Assemblage	by field observation*			by micro-scope	by x-Ray diffraction	
Combination of country rocks *	Calcareous Conglomerate					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		X- Ar Methode	Other Methode	
Investigation of Fossils	Spot Investigation	Radiolaria	Nanno-Plankton	Other Fossils
		Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is low
		A	B	C
		Follow up survey is highest	Follow up survey is high	Follow up survey is low
Evaluation for Ore Prospects	Results of Geochemical & other analysis	"	"	"
	Summarized Evaluation	A	B	C
		"	"	"
Other specially Mentions				

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DICAMAY RIVER II		Mineral Prospects No.		6 (Cauayan)		
Locality	1/50,000 Topographic map No.	3369 I	X Coordinates	Y Coordinates	Altitude	400 (m)	*
Survey date	July, 3, '86.		Surveyer	T. ISAKA, O. PINEDA			
Compiling date (file No.)			Owner of mining right				
Metalogenic province	Hematite		Type of Ore Deposits		Country rock of Ore Deposits	Calcareous Conglomerate	
One mineral assemblage	Hematite						by x-Ray diffraction
Gangue mineral assemblage	Calcite						by x-Ray diffraction
Alteration mineral assemblage							by x-Ray diffraction
Combination of country rocks	Calcareous Conglomerate.						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode	
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils
Evaluation for Ore Prospects	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	Follow up survey is E
	Summarized Evaluation	A	B	E
Other specially Mentions		"	"	"
		"	"	"
		"	"	"

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	ILAGAN RIVER		Mineral Prospects No.		7 (Cauayan)		
	1/50,000 Topographic map No.	3469IV	X * Coordinates	6,200	Y * Coordinates	15,100	Altitude 240 (m) *
Locality *	June, 29, '86.		Surveyer *	T. ISAKA, O. PINEDA			
Survey date			Owner of mining right				
Compiling data (file No.)			Type of Ore Deposits *	Country rock of Ore Deposits *			
Metallogenic province				by x-Ray diffraction			
One mineral assemblage	by field observation.*			by micro-scope			
Gangue mineral Assemblage	Pyrite			by x-Ray diffraction			
Alteration mineral Assemblage	by field observation.*			by micro-scope			
Combination of country rocks *	Chlorite Quartz			by x-Ray diffraction			
	Andesite and Diorite intrusive body.						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode	
Investigation of Fossils	Radioraria	Nanno-Plankton		Other Fossils	
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Ne cessity of follow up survey is low	Follow up survey is needless
	A	B	C	(D)	E
Evaluation for Ore Prospects	Spot Investigation	"	"	"	"
	Results of Geochemical & other analysis	"	"	"	"
	Summerized Evaluation	"	"	"	"
<p>Mineralization zone expose about 80 m length along the river. Pyrite network dissemination is observed in fisser developing andesite at mineralization zone.</p>					
Other specially Mentions					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	DIDEN RIVER		Mineral Prospects No.			8 (Cauayan)		
	1/50,000 Topographic map No.	3469IV	X * Coordinates	7,500	Y * Coordinates		13,000	Altitud
Locality *								
Survey date	June, 29, '86.		Surveier *	T. ISAKA, O. PINEDA				
Geopiling date (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Vein Type (Dissemination)		Country rock of * Andesite(N ₁)		
One mineral Assemblage	by field observation.* Pyrite			by micro-scope by x-Ray diffraction				
Congue mineral Assemblage	by field observation.* Quartz			by micro-scope by x-Ray diffraction				
Alternation mineral Assemblage	by field observation.* Quartz Chlorite			by micro-scope by x-Ray diffraction				
Combination of country rocks	* Andesite and Diorite intrusive body.							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode					
Investigation of Fossils		Radioraria		Nanno-Plankton		Other Fossils			
Ore Prospects for Evaluation	Spot Investigation	A	Necessity of follow up survey is highest	B	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	D	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"
	Summarized Evaluation	A	"	B	"	C	"	D	"
Other specially Mentions		Pyrite dissemination are observed in fracture developed andesite.							

Appendix

Figure 3, Data sheet for Mineral Prospects(L)

Survey area	PARIG CREEKI		Mineral Prospects No.		9 (Cauayan)	
	1/50,000 Topographic map No.	3469IV	X Coordinates	18,800	Y Coordinates	8,400
Locality *						Altitud 560 (m)
Survey date *	June, 24, '86.		Surveier *	T. ISAKA, O. PINEDA		
Geopling Site (file No.)			Owner of mining right			
Metalogenic province			Type of Ore Deposits *	Vein Type	Country rock of Ore Deposits *	Dacite(N ₁)
One mineral assemblage	Pyrite		by field observootion.*	by micro-scope	by x-Ray diffraction	
Gangue mineral assemblage	Quartz		by field observootion.*	by micro-scope	by x-Ray diffraction	
Alternation mineral Assemblage	Chlorite Quartz		by field observootion.*	by micro-scope	by x-Ray diffraction	
Combination of country rocks *	Dacite					

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils		
Ore Prospects Evaluation for	Spot Investigation	A	B	C	Possibility of follow up survey is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	C	"	"
	Sumnerized Evaluation	A	B	C	"	"
Other specially Mentions						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	PALIG CREEK II		Mineral Prospects No.		10 (Cauayan)		
Locality *	1/50,000 Topographic map No.	3489IV	X * Coordinates	19,050	Y * Coordinates	8,400	Altitud (m) * 560
Survey date *	June, 24, '86.		Surveier *	T. ISAKA, O. PINEDA			
Compiling date (file No.)	Owner of mining right						
Metallogenic province			Type of Ore Deposits *	Strata bound deposit	Country rock of Ore Deposits * Unknown		
One mineral assemblage	by field observation.* Oxidized Manganese Ore		by micro-scope				
Genue mineral assemblage	by field observation.*		by micro-scope				
Alternation mineral assemblage	by field observation.*		by micro-scope				
Combination of country rocks *							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode						
Investigation of Fossils	Radioraria	Nanno-Plankton	Other Fossils					
	Necessity of follow up survey is highest	Necessity of follow up survey is high	Necessity of follow up survey is low	Possibility of follow up survey is reliable	Possibility of follow up survey is (D)	Follow up survey is E	Follow up survey is E	
Spot Investigation	A	B	C	D	E	E	E	
Results of Geochemical & other analysis	A	B	C	"	"	"	"	
Summarized Evaluation	A	B	C	"	"	"	"	
Ore Prospects for Evaluation for								
Other specially Mentions	Sample of Ore assay is collected from float boulder at river side, therefore outcrop of ore unknown.							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	PALIG CREEK III		Mineral Prospects No.		11 (Cauayan)	
Locality *	1/50,000 Topographic map No.	3469IV	X * Coordinates	19,100	Y * Coordinates	8,600 Altitud (m) 580
Survey date *	June, 26, '86.		Surveyer *	T. ISAKA, O. PINEDA		
Compiling date (file No.)			Owner of mining right			
Metalogenic province			Type of Ore Deposits *	Vein type		Country rock of Ore Deposits Dacite(N ₁)
One mineral assemblage	by field observation.*	Pyrite		by micro-scope		
Country mineral assemblage	by field observation.*	Quartz		by x-Ray diffraction		
Alternation mineral assemblage	by field observation.*	Quartz Chlorite		by x-Ray diffraction		
Combination of country rocks *		Dacite				

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode														
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Possibility of follow up survey is reliable	Other Fossils	Follow up survey is needless										
								Spot Investigation	B	C	D	E					
													Results of Geochemical & other analysis	B	C	D	E
Ore Prospects for Evaluation		Barren quartz vein including small amount of pyrite is observed in this site.															
Other specially Mentions																	

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Isabela		Mineral Prospects No.		I (Ilagan)		
	1/50,000 Topographic map No.	34611111	X * Coordinates	5,450	Y * Coordinates	16,000	Altitud 110 (m) *
Locality *	June, 15, '86.		Surveyer	A. Shida, J. Elores			
Survey date *			Owner of mining right				
Compiling data (file No.)			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits	Meta-volcanics	
Metalogenic province			by field observation.*	by x-Ray diffraction			
Ore mineral assemblage	Pyrite Chalcopyrite (small amount)		by micro-scope				
gangue mineral assemblage	Quartz		by x-Ray diffraction				
Alteration mineral assemblage	by field observation.* Silicification		by micro-scope				
Composition of country rocks *	Meta-volcanic rock						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode							
Investigation of Fossils		Radiolaria		Nanno-Plankton		Other Fossils					
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is highest	B	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	D	Necessity of follow up survey is low	E	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"	E	"
	Summarized Evaluation	A	"	B	"	C	"	D	"	E	"
<p>Pyrite disseminated in meta-volcanic host rock with small amount of chalcopyrite. The outcrop exhibit fracture N 20° W strike 10° NE dip and N 44° E, 70° SE. Pyrite mineralization develop along these fractures.</p>											
<p>Other specially Mentions</p>											

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Siagot		Mineral Prospects No.		2 (Iligan)			
	1/50,000 Topographic map No.	3471111	X * Coordinates	6,600	Y * Coordinates	10,950	Altitud	90 (m) *
Locality *								
Survey date	June, 15, '86.		Surveier *	A. Shida, J. Flores				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits *	Dissemination	Country rock of Ore Deposits *	Meta sedimentary rock		
Ore mineral Assemblage	by field observation.* Pyrite Chalcopyrite (small amount)			by micro-scope	by x-Ray diffraction			
Gangue mineral Assemblage	by field observation.* Quartz			by micro-scope	by x-Ray diffraction			
Alteration mineral Assemblage	by field observation.* Silicification			by micro-scope	by x-Ray diffraction			
Combination of country rocks *								

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K-Ar Methode		Other Methode			
Investigation of Fossils		Radiolaria		Nanno-Plankton		Other Fossils	
Ore Prospects Evaluation for		Necessity of follow up survey is highest		Necessity of follow up survey is high		Necessity of follow up survey is low	
		A		B		C	
Spot Investigation							
Results of Geochemical & other analysis							
Summerized Evaluation							
<p>The outcrop exhibits a N20°E fracture dipping 75° to NW. Pyrite mineralization develop along this fracture with small amount of chalcopyrite.</p>							
<p>Other specially Mentions</p>							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Ilagan No.1		Mineral Prospects No.		3 (Ilagan)		
* Locality	1/50,000 Topographic map No.	3471111	X * Coordinates	7,200	Y * Coordinates	14,350 Altitud	250 (m) *
* Survey date	June, 14, '86.		Surveier *	A. Shida, J. Flores			
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits *	Dissemination	Country rock of * Ore Deposits		Meta sedimentary Rock
Ore mineral	by field observation.*				by x-Ray diffraction		
Assemblage	Pyrite, Chalcopyrite (small amount)				by micro-scope		
Gangue mineral	by field observation.*				by x-Ray diffraction		
Assemblage	Quartz				by micro-scope		
Alteration mineral	by field observation.*				by x-Ray diffraction		
Assemblage	Silicification				by micro-scope		
Combination of country rocks							

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode									
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Other Fossils							
						Spot Investigation	A	B	C	Possibility of follow up survey is reliable	Ne cessity of follow up survey is low	Follow up survey is needless
Summerized Evaluation	A	B	C	D	E							
						Evaluation for Ore Prospects	A	B	C	D	E	
												Other specially Mentions

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Iligan No.2		Mineral Prospects No.		4 (Iligan)		
* Locality	1/50,000 Topographic map No.	3471111	X Coordinates	6,800	Y Coordinates	14,250	Altitude 200 (m)
* Survey date	June, 14, '86.		Surveier	A. Shida, J. Flores			
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits	Quartzdiorite	
Ore mineral	by field observation.*	Pyrite,	by micro-scope		by x-Ray diffraction		
Assemblage		Chalcopyrite (small amount)					
Gangue mineral	by field observation.*	Quartz,	by micro-scope		by x-Ray diffraction		
Assemblage		Limonite					
Alternation mineral	by field observation*	Silicification,	by micro-scope		by x-Ray diffraction		
Assemblage		Limonitization.					
Combination of country rocks	*						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode	
Evaluation for Ore Prospects	Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils	
	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Follow up survey is
	Results of Geochemical & other analysis	A	B	C	(B) needless
	Summarized Evaluation	A	B	C	E
Other specially Mentions		"	"	"	"
		"	"	"	"
		"	"	"	"

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Menuma No.1		Mineral Prospects No.		5 (Ilagan)			
* Locality	1/50,000 Topographic map No.	3471111	X * Coordinates	9,750	Y * Coordinates	13,350	Altitude	150 (m) *
* Survey date	June, 16, '86.		Surveyer	A.Shida, J. Flores				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits		Vein Type		Country rock of Ore Deposits	Meta sedimentary Rock *
Ore mineral	by field observation.* Pyrite			by micro-scope			by x-Ray diffraction	
Assemblage	Chalcopyrite. (small amount)							
Gangue mineral	by field observation.* Quartz, Epidote.			by micro-scope			by x-Ray diffraction	
Alteration mineral	by field observation.* Silicification, Epidotization.			by micro-scope			by x-Ray diffraction	
Combination of country rocks	*							

Figure 5, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode								
Investigation of Fossils	Radiolaria	Nanno-Plankton		Possibility of follow up survey is reliable	D	Ne cessity of follow up survey is low	Other Fossils	Follow up survey is needless				
		Necessity of follow up survey is high							C	E		
		Necessity of survey is highest									B	E
		A										
Spot Investigation	A		C	D	E	E	E					
Results of Geochemical & other analysis	A							C	D	E	E	
Summnerized Evaluation	A											C
Evaluation for Ore Prospects	A		C	D	E	E	E					
<p>Three epidote-quartz veins develop in the meta sedimentary host rock. These veins contain pyrite with small amount of chalcopyrite.</p>												
<p>Other specially Mentions</p>												

Appendix

Figure 3, Data sheet for Mineral Prospects(L)

Survey area	Menu No.2		Mineral Prospects No.		6 (Iligan)			
	1/50,000 Topographic map No.	34711111	X Coordinates	9,800	Y Coordinates	12,800	Altitude	160 (m)
Locality *								
Survey date *	June, 16, '86.		Surveier *	A. Shida, J. Flores				
Compiling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits Granodiorite			
Ore mineral Assemblage	by field observation*	Pyrite, Chalcopyrite (small amount)			by x-Ray diffraction			
Gangue mineral Assemblage	by field observation*	Quartz			by micro-scope			
Alteration mineral Assemblage	by field observation*	Silicification			by x-Ray diffraction			
Combination of country rocks *								

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode				
Investigation of Fossils	Radiolaria		Nanno-Plankton	Other Fossils		
	A	Necessity of follow up survey is highest	B	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable
	Spot Investigation	B	B	low	D	Follow up survey is needless
Evaluation for Ore Prospects	Results of Geochemical & other analysis	"	"	"	"	"
	Summarized Evaluation	"	B	"	C	"
		"	"	"	D	"
<p>Three gossans develop in the granodiorite host rock. Each gossan contain pyrite with small amount of chalcopyrite.</p>						
<p>Other specially Mentions</p>						

Appendix

figure 3, Data sheet for Mineral Prospects(I)

Survey area	Menuma No.3		Mineral Prospects No.		7 (Iligan)			
	1/50,000 Topographic map No.	3471111	X* Coordinates	9,100	Y* Coordinates	12,100	Altitud	120 (m)
Locality*								
Survey date	June, 16, '86.		Surveier*	A. Shida, J. Flores				
Geopling data (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	Dissemination	Country rock of Ore Deposits*	Meta sedimentary Rock		
Ore mineral	by field observoction.*		Pyrite, Chalcopyrite (small amount)		by x-Ray diffraction			
Assemblage	by field observoction.*		Quartz		by x-Ray diffraction			
Cangue mineral	by field observoction.*		Silicification		by x-Ray diffraction			
Assemblage	by field observoction.*							
Concination of country rocks								

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode	
Investigation of Fossils	Radiolaria	Nanno-Plankton		Other Fossils	
	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey (D) is reliable	Necessity of follow up survey is low
	Results of Geochemical & other analysis Sumnerized Evaluation	A	B	C	E
Evaluation for Ore Prospects		"	"	"	"
		"	"	"	"
		A	B	C	E
Other specially Mentions					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Menuma No.4		Mineral Prospects No.		8 (Ilagan)			
	1/50,000 Topographic map No.	3471111	X * Coordinates	8,400	Y * Coordinates	11,500	Altitud	110 (m) *
Locality *	June, 16, '86.		Surveyer *	A. Shida, J. Flores				
Survey date			Owner of mining right					
Compiling data (file No.)			Type of Ore Deposits	Dissemination		Country rock of Ore Deposits		
Metallogenic province						Diorite		
Ore mineral Assemblage	by field observation.* Pyrite, Chalcopyrite (small amount)			by micro-scope		by x-Ray diffraction		
Cangue mineral Assemblage	by field observation.* Quartz.			by micro-scope		by x-Ray diffraction		
Alternation mineral Assemblage	by field observation.* Silicification.			by micro-scope		by x-Ray diffraction		
Combination of country rocks *								

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode		
Investigation of Fossils		Radiolaria	Nanno-Plankton	Other Fossils	
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is high B	Possibility of follow up survey (D) is reliable C	Follow up survey is needless E
	Results of Geochemical & other analysis	A	" B	" C	" E
	Summarized Evaluation	A	" B	" C	" E
Other specially Mentions		<p>Diorite dyke width 20 m occurs in the metasedimentary rock. Along the crushed zone trending N5°W dipping 60°E, Pyrite develop with small amount of chalco- pyrite.</p>			

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Casablangan		Mineral Prospects No.		1 (Tuguegarao)	
	1/50,000 Topographic map No.	3472IV	X* Coordinates	300-350	Y* Coordinates	11,200-11,260 Altitude
Locality*						420 (m)*
Survey date	June, 7, '86.		Surveyer	K. Masubuchi, P. Revillos Jr		
Compiling date (file No.)			Owner of mining right			
Metalogenic province			Type of Ore Deposits	Veinlet & Dissemination	Country rock of Ore Deposits	Dacite
Ore mineral Assemblage	by field observation.* Pyrite, Chalcopyrite, Bornite(?), Pyrrhotite(?).			by micro-scope	by x-Ray diffraction	
Gangue mineral Assemblage	by field observation.*			by micro-scope	by x-Ray diffraction	
Alteration mineral Assemblage	by field observation.* Limonite(?), Azurite(?), Hematite.			by micro-scope	by x-Ray diffraction	
Combination of country rocks*	Dacite intruded in micro-diorite.					

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode	Other Methode													
Investigation of Fossils	Radiolaria	Necessity of follow up survey is highest	Necessity of follow up survey is high	Nanno-Plankton	Other Fossils											
						Spot Investigation	A	B	Possibility of follow up survey is reliable	D	Follow up survey is needless					
												Results of Geochemical & other analysis	A	B	C	E
Evaluation for Ore Prospects	A	B	C	D	E											
						Other specially Mentions	A	B	C	D	E					

Appendix

Figure 3, Data sheet for Mineral Prospects (I)

Survey area	Dinadacan		Mineral Prospects No.		2 (Tuguegarao)	
	1/50,000 Topographic map No.	3472IV	X Coordinates	Y Coordinates	Altitude	550 (m)
Locality *						
Survey date *	June, 8, '86.		Surveier *	K. Masubuchi, P. Revillos Jr		
Compiling data (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits *	Dissemination & Veinlet	Country rock of Ore Deposits *	Dacite
Ore mineral Assemblage	by field observation.* Chalcopyrite (?), Pyrite.				by x-Ray diffraction	
Gangue mineral Assemblage	by field observation.* Quartz.				by micro-scope	
Alteration mineral Assemblage	by field observation.* Sericite, Chlorite.				by x-Ray diffraction	
Combination of country rocks *	Dacite intruded in Diorite.					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Investigation of Fossils				Other Fossils
	Radioraria		Nanno-Plankton				
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is high	B	(C)	Possibility of follow up survey is reliable	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	C	"	Follow up survey is needless
	Summarized Evaluation	A	"	B	C	"	Follow up survey is needless
Other specially Mentions							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Capisayan (W)		Mineral Prospects No.		3 (Tuguegarao)	
	1/50,000 Topographic map No.	X* Coordinates	Y* Coordinates	Altitud	120 (m)*	
Locality	3374II					
Survey date		Surveier *				
Geopling data (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits	Sedimentary deposit	Country rock of Ore Deposits	Sandstone-Shale	
Ore mineral	by field observation.*		by micro-scope		by x-Ray diffraction	
Assemblage	Pyrite(?), Hematite, Magnetite(?), Goethite.					
Cangue mineral	by field observation.*		by micro-scope		by x-Ray diffraction	
Assemblage						
Alternation mineral	by field observation.*		by micro-scope		by x-Ray diffraction	
Assemblage	Sericite(?)					
Concination of country rocks						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Methode	Other Methode	Other Fossils		
Investigation of Fossils	Radioraria	Manno-Plankton	Other Fossils		
Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Ne cessity of follow up survey is low	Follow up survey is needless
Results of Geochemical & other analysis	A	B	C	D	E
Sumnerized Evaluation	A	B	C	D	E
Evaluation for Ore Prospects	A	B	C	D	E
Other specially Mentions					

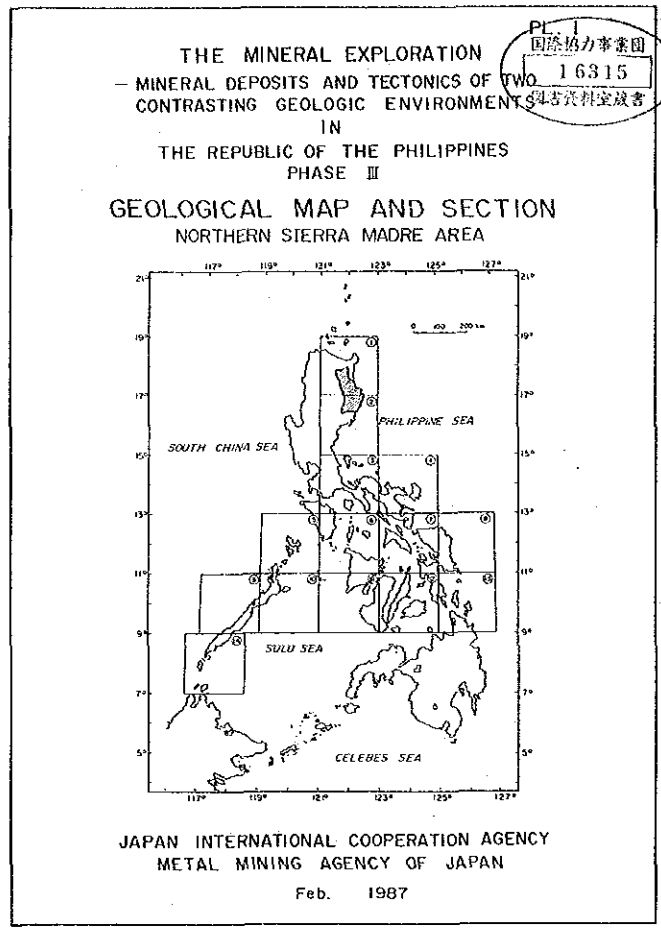
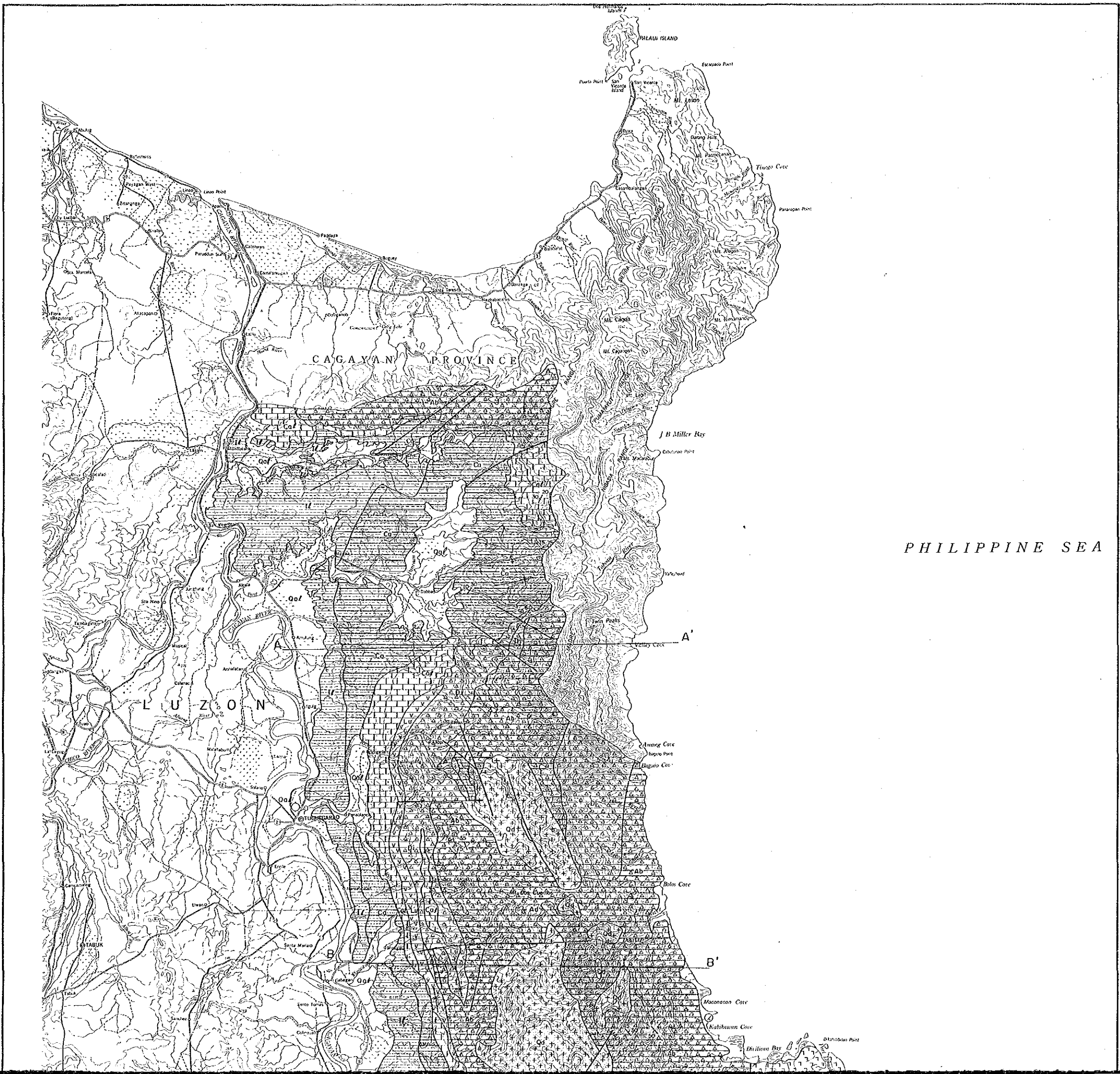
Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Capisayan (E)		Mineral Prospects No.			4 (Tuguegarao)
	1/50,000 Topographic map No.	X Coordinates	Y Coordinates	Altitude	(m)	
Locality *	3374II	17,300-17,400	5,130-5,350	200		
Survey date *	June, 27, '86.	Surveier *	K. Masubuchi, P. Revillos Jr			
Geopiling (file No.)		Owner of mining right *				
Metallogenic province		Type of Ore Deposits *	Sedimentary deposit	Country rock of Ore Deposits	Sandstone-Shale	
Ore mineral Assemblage	by field observation* Pyrite(?), Hematite, Magnetite(?), Goethite.		by micro-scope	by x-Ray diffraction		
Cangue mineral Assemblage	by field observation*		by micro-scope	by x-Ray diffraction		
Alternation mineral Assemblage	by field observation* Sericite(?).		by micro-scope	by x-Ray diffraction		
Composition of country rocks *						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Methode		Other Methode		Other Fossils		Follow up survey is	
Investigation of Fossils		Radiolaria		Nanno-Plancton		Possibility of follow up survey is reliable		No necessity of follow up survey is low	
Evaluation for Ore Prospects	Spot Investigation	A	Necessity of follow up survey is highest	B	Necessity of follow up survey is high	C	Possibility of follow up survey is reliable	(D)	Follow up survey is needless
	Results of Geochemical & other analysis	A	"	B	"	C	"	D	"
	Summarized Evaluation	A	"	B	"	C	"	D	"
Other specially Mentions									



PHILIPPINE SEA

LEGEND

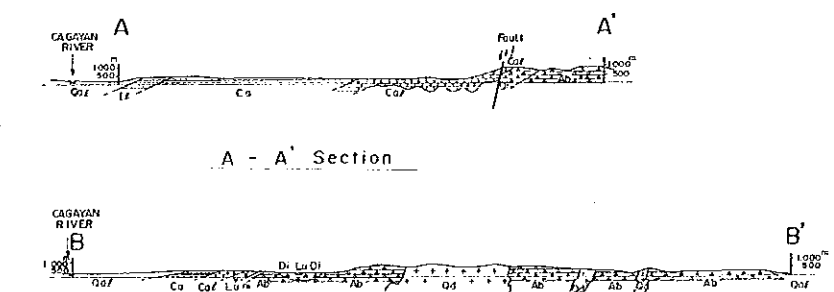
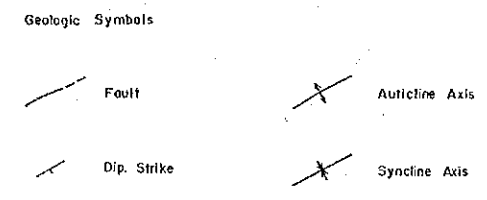
	Qal Gravel Sand Soil	
Holocene	I-I Ilagan Formation	Ko Karalipang Limestone
Pleistocene	C-C Cabagan Formation	Pa Palanan Sediments
Pliocene	C-L Caloo Limestone	
Miocene	L-L Lubagan Formation	I-L Ibaloo Limestone
Tertiary	D-U Dibujan Formation	Qd Quartz Diorite (Intrusive body)
Oligocene	M-C Mt. Cresto Formation	M-R Mosibi River Formation
Eocene	A-R Abuan River Formation	D-R Dipodian River Formation
Paleocene	D-R Dikinamaran River Chert	
	B-B Bacoban Basalt	
Mesozoic	I-U Isabela Ultramafic Complex (Massive gabbro)	I-U Isabela Ultramafic Complex (Pyroxene Peridotite with lenses of dunite) (Ou)

Geologic Symbols

	Fault		Anticline Axis
	Dip. Strike		Syncline Axis



Miocene	Lu	Luzon Ultramafic Complex (Massive gabbro) (Gb)	Lu'	Luzon Ultramafic Complex (Rhyolite Peridotite with lenses of dunite) (Du)
Tertiary	Lu	Lubogon Formation	Lu'	Lubao Limestone
Oligocene	O	Oligocene Formation	Qd	Quartz Diorite (Intrusive body)
Eocene	Mi	Mt. Cresta Formation	Mos	Masibi River Formation
Paleocene	Ab	Abuan River Formation	Di	Dipadion River Formation
	Di	Dikimaron River Chart		
	Bic	Escoban Basalt		
Mesozoic				

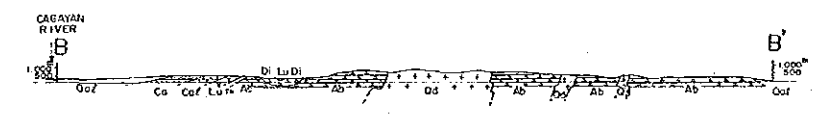


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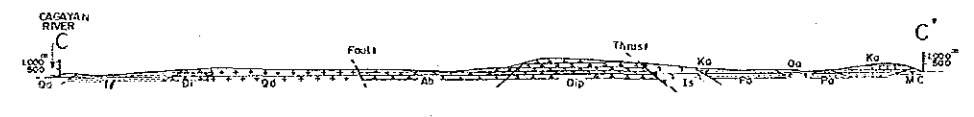
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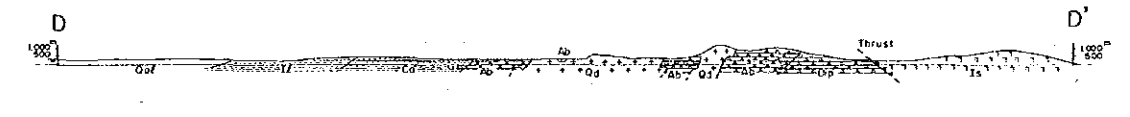
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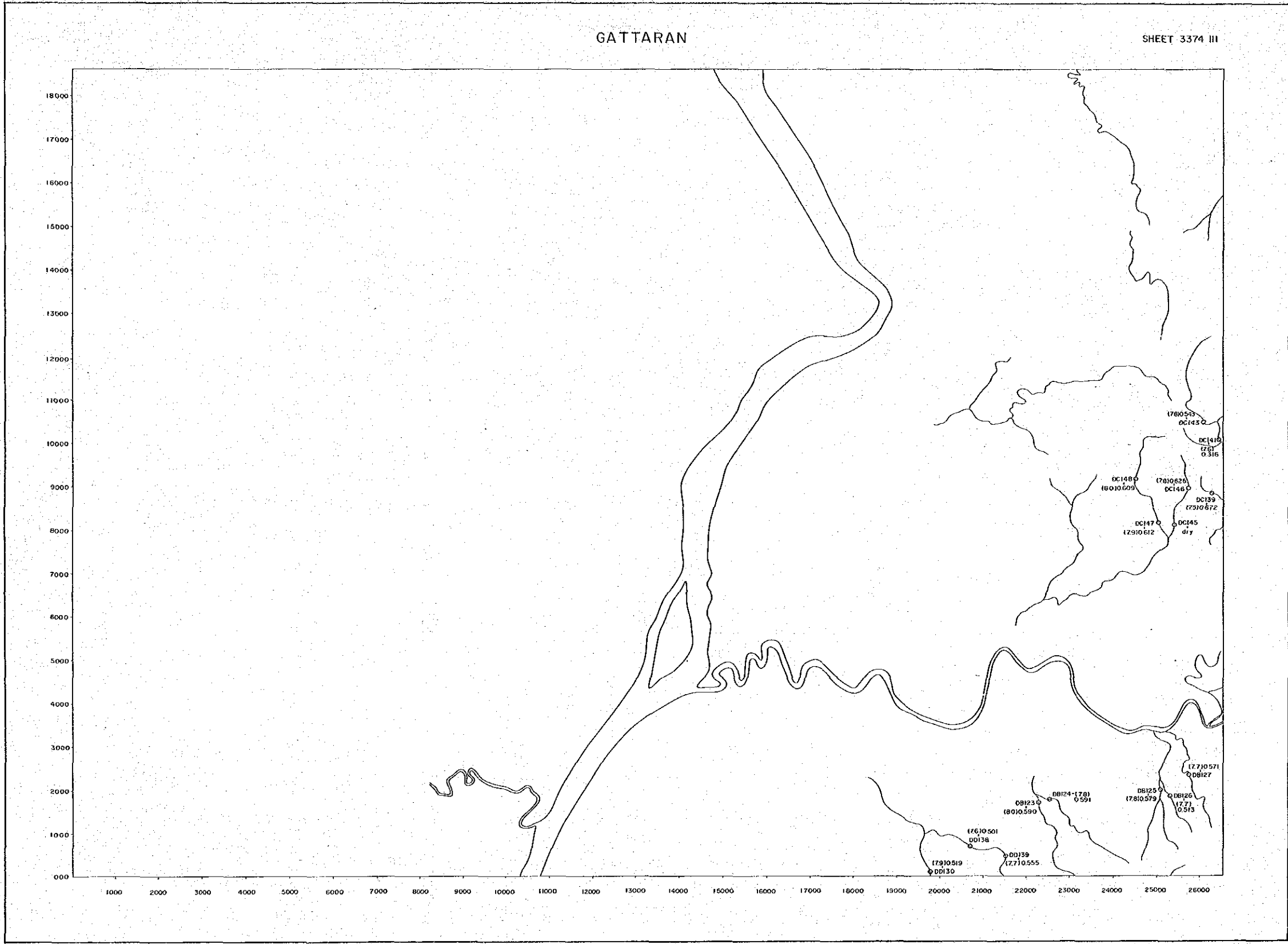
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C - C' Section



D - D' Section



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PHASE III
SAMPLING POINT, pH VALUES AND
ELECTRIC CONDUCTIVITY VALUES
NORTHERN SIERRA MADRE AREA

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
Feb. 1987

Scale 1 : 50,000

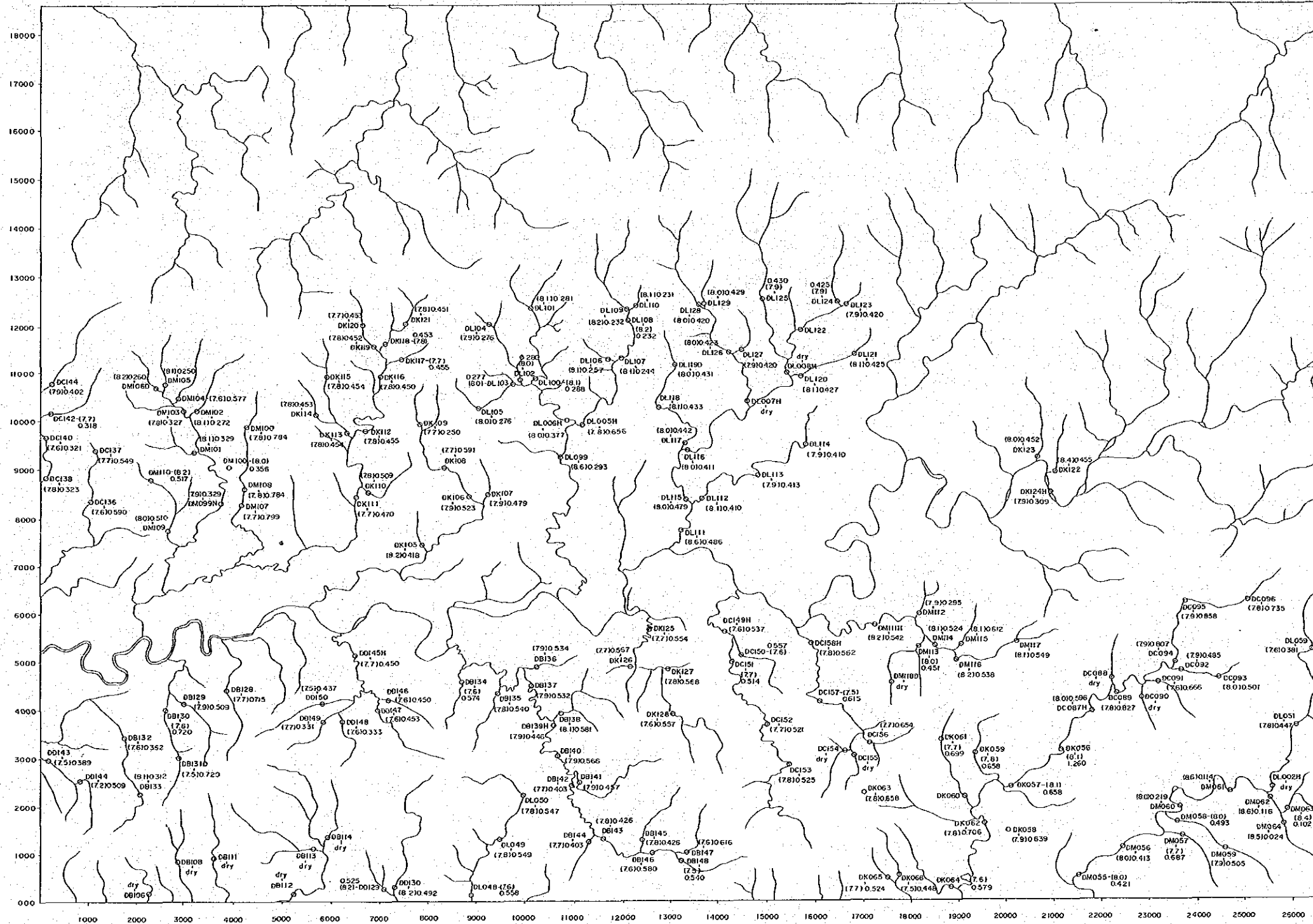
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3374 W	3374 N	3374 E	3374 S
GATTARAN	CAMPANAN	CAMPANAN	CAMPANAN
3373 W	3373 N	3373 E	3373 S
FAIR	BAGGAD	IRWIN	PEAKS
3372 W	3372 N	3372 E	3372 S
IGUIG	CALLAO	BAGUIO	POINT
3371 W	3371 N	3371 E	3371 S
PUNEDAW	PERA	LOBOS	POINT
3370 W	3370 N	3370 E	3370 S
CABAGAN	OVATANAN	SCAGOLAN	RIVER
3369 W	3369 N	3369 E	3369 S
TUMAHUN	MOROLE	ERESIA	PLAK
3368 W	3368 N	3368 E	3368 S
HEAGAN	LUPHAK	PALANAN	
3367 W	3367 N	3367 E	3367 S
CARAYAN	SAN	WAGLAN	RIVER
3366 W	3366 N	3366 E	3366 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN
3365 W	3365 N	3365 E	3365 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN
3364 W	3364 N	3364 E	3364 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN
3363 W	3363 N	3363 E	3363 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN
3362 W	3362 N	3362 E	3362 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN
3361 W	3361 N	3361 E	3361 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN
3360 W	3360 N	3360 E	3360 S
DIWALAN	DIWALAN	DIWALAN	DIWALAN

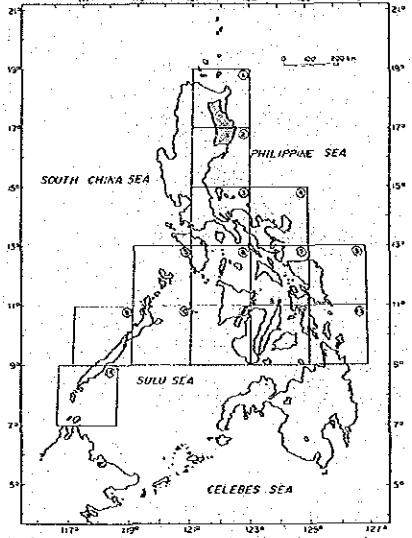
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- (7.0) : pH
- 0.280 : Electric conductivity (μs/cm)
- [B-48] : Sampling point (for laboratory work)

CAPISAYAN

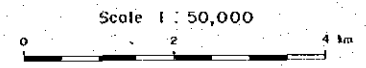
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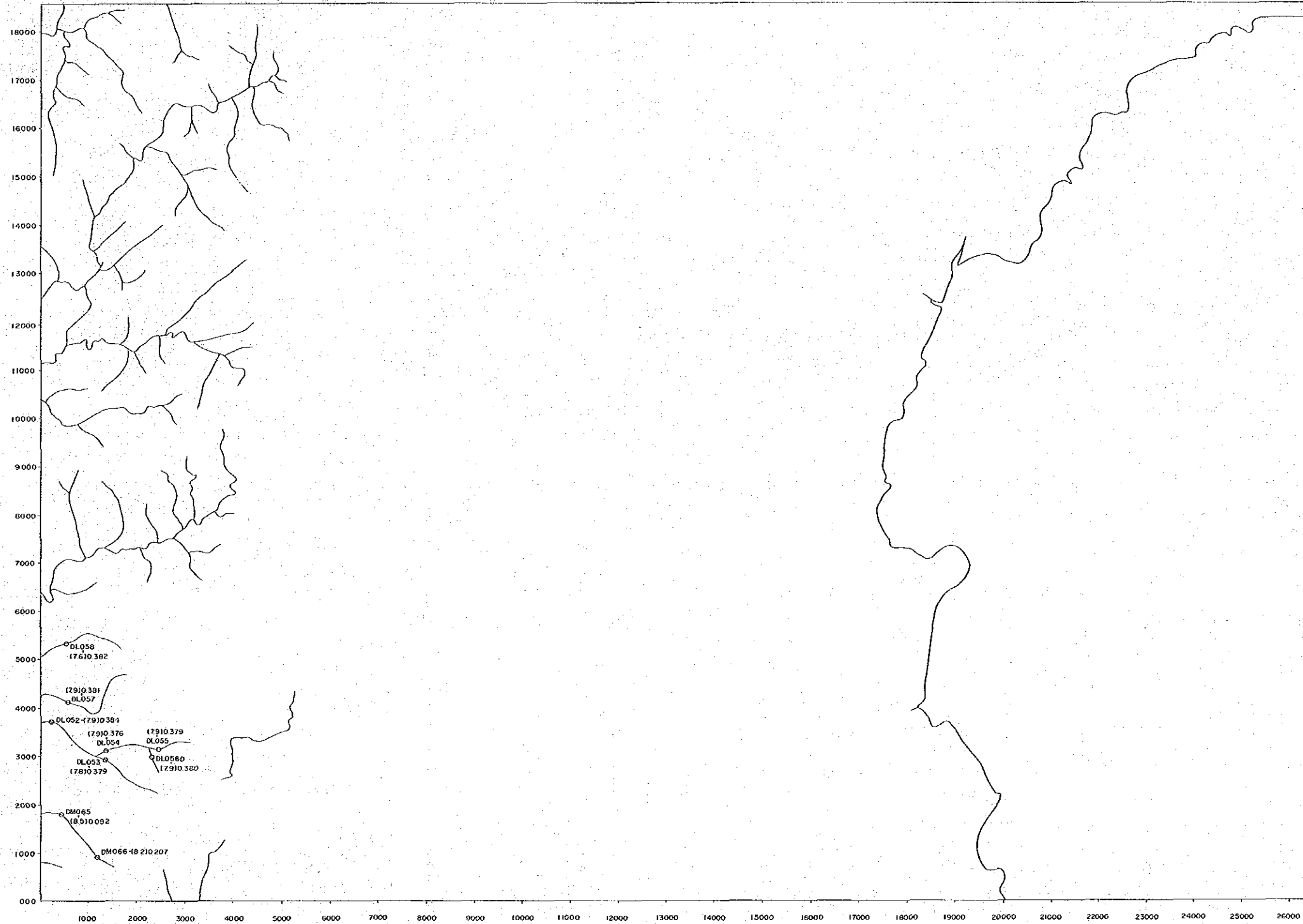
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- O : Sampling point (Stream sediment, heavy mineral)
- (7.0) : pH
- 0.280 : Electric conductivity ($\mu\text{s}/\text{cm}$)
- [B-48] : Sampling point (for laboratory work)

3374 II	3375 I	3376 II
GAITARAN	CAPISAYAN	AMTUPUN
3373 IV	3373 I	3373 IV
FAIRE	BAGGAO	TWIN PEAKS
3375 III	3375 III	3375 III
IGUIG	CALLAO	BAGUIO
3372 IV	3372 I	3372 IV
TUGAYAN	PERA	LOBOC
	ILANAO	POSTI
3372 II	3372 II	3372 II
CARAGAN	MOATANAN	MOGQUE
	PIPER	OSAN
3371 I	3371 I	3371 I
TUMAINO	SATI IV	MOHANT
	CREDIA	PIKAY
3371 II	3371 II	3371 II
ILADAN	LUPGATE	PALANAN
3370 I	3370 I	3370 I
CAUBAYAN	SAK	MOGQUEAN
	WARRANO	RIVER
3370 II	3370 II	3370 II
SANTAGO	PISEAT	SUNASAR
3368 II	3368 II	3368 II
ZONES	MOANT DOS	MOANT
	BERMANOS	JOCTY

CABUTUNAN POINT

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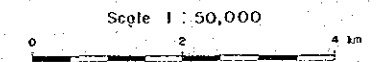


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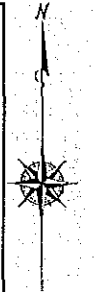
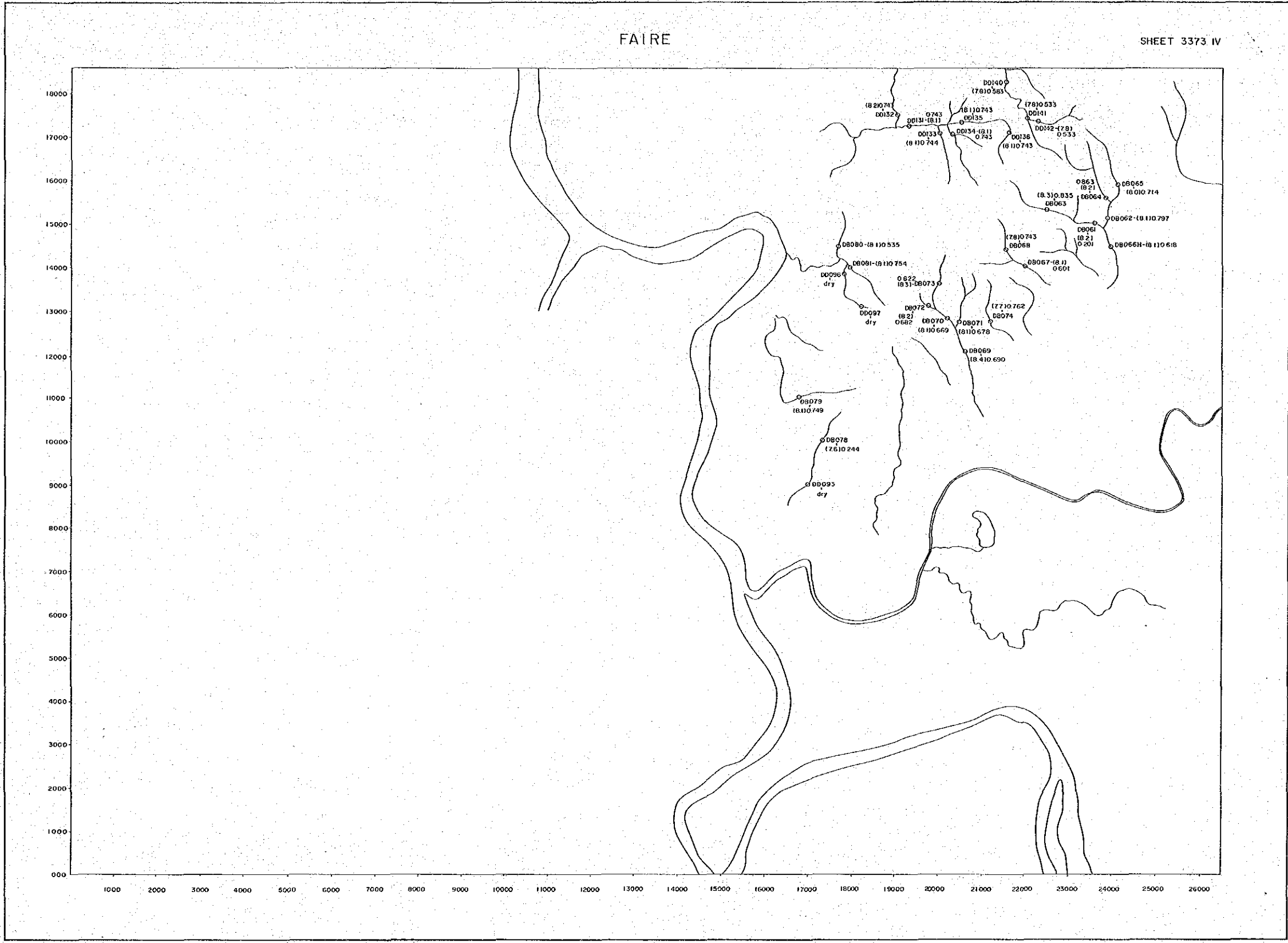
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LEGEND

3374 III	3374 II	3374 I
GATTARAN	CAMPANAN	CABUTUNAN
3374 IV	3374 I	3374 II
FAURE	BAGCAO	TWIN PEAKS
3373 III	3373 II	3373 I
10010	CALLAO	BAGUIO POINT
3372 III	3372 I	3372 II
10000	PELA	LOBOS POINT
3372 III	3372 II	3372 I
CABOAN	DONATEYAN RIVER	PRINCIPAL RIVER
3371 I	3371 II	3371 III
TAMUNING	MOUNT CRESTA	MOUNT PEAK
3371 II	3371 I	3371 III
ILAGAN	LUPONGUE	BALANAN
3370 I	3370 II	3370 III
CAHAYAN	SAN MARINO	PAKAOAN RIVER
3370 II	3370 I	3370 III
SANTAGO	PRISAY	BEYASAN
3369, IV	3369 I	3369 II
JONES	PIPIELING	MOUNT DOS MOUNT JOCKY

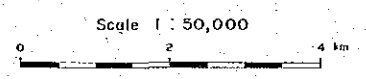
- O : Sampling point (Stream sediment, heavy mineral)
- (70) : pH
- 0.260 : Electric conductivity ($\mu\text{s}/\text{cm}$)
- [B-48] : Sampling point (for laboratory work)



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LEGEND

3374 W GATTARAN	3374 E CAMPAGNON	3374 N SANTURON
3373 IV FAIRE	3373 I BAGGAO	3373 IV TANAY PLANT
3373 III IGANG	3373 E CALLAD	3373 III BAGGAO POINT
3372 IV TUGUEGUAPO	3372 I PENA- BLANCA	3372 IV TUGUEGUAPO POINT
3372 W CASAGAN	3372 E OKAYANAN	3372 W PAGORAN
3371 I TUMAYAN	3371 IV MORON	3371 I DUALAGAN
3371 W ILAGAN	3371 E LUPIGAY	3371 W PALANAY
3370 I CAUBAYAN	3370 IV SAY	3370 I PALANAYAN
3370 W SANTOGO	3370 E PISAY	3370 W LUBOGAN
3369 IV JONES	3369 I DIBUKAN	3369 IV MOUNT MORON

○ : Sampling point (Stream sediment, heavy mineral)

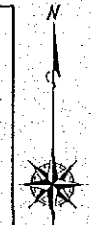
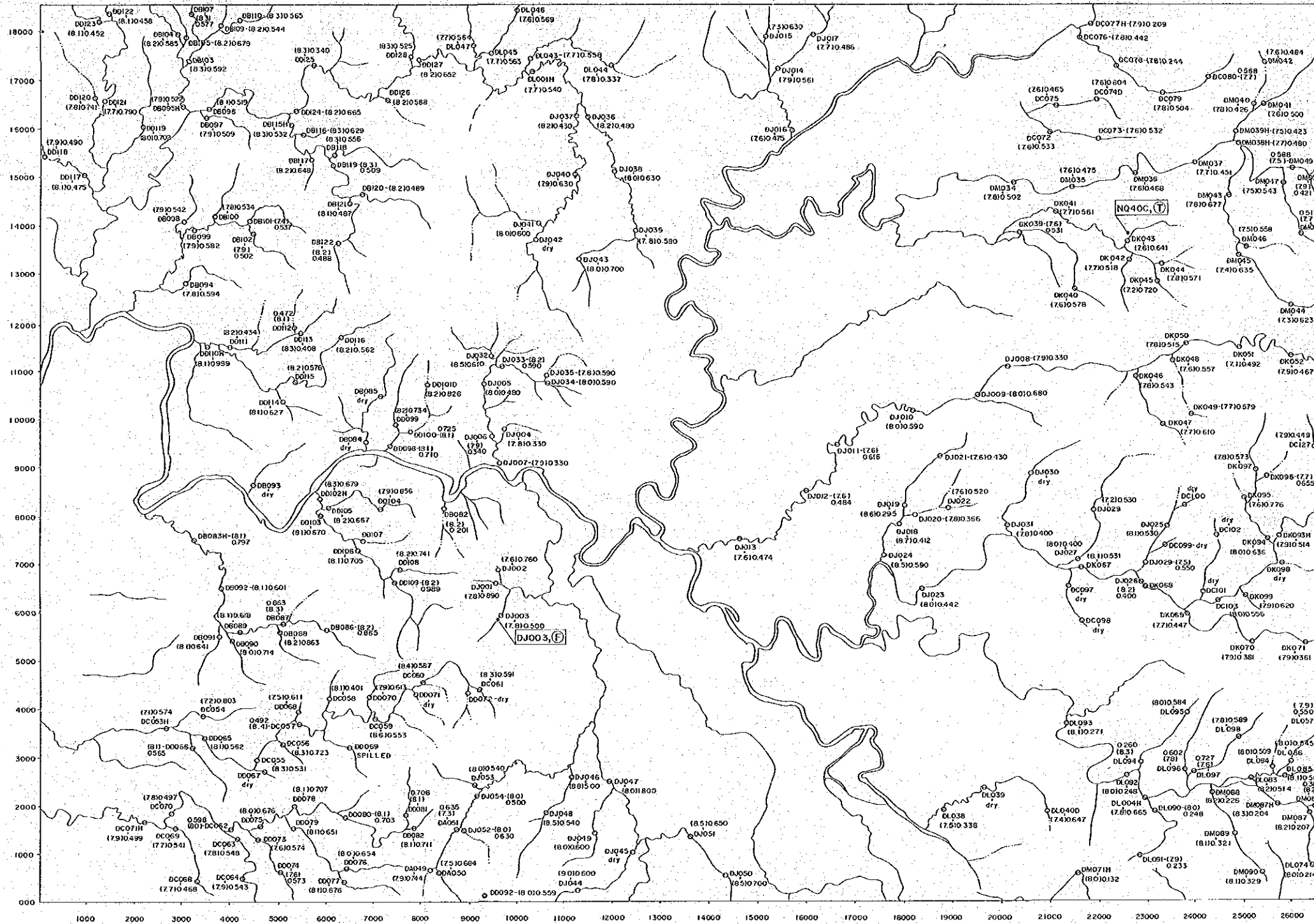
(7.0) : pH

0.280 : Electric conductivity (μs/cm)

[B-48] : Sampling point (for laboratory work)

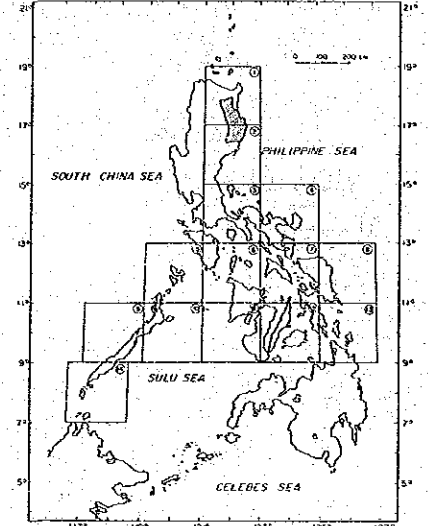
BAGGAO

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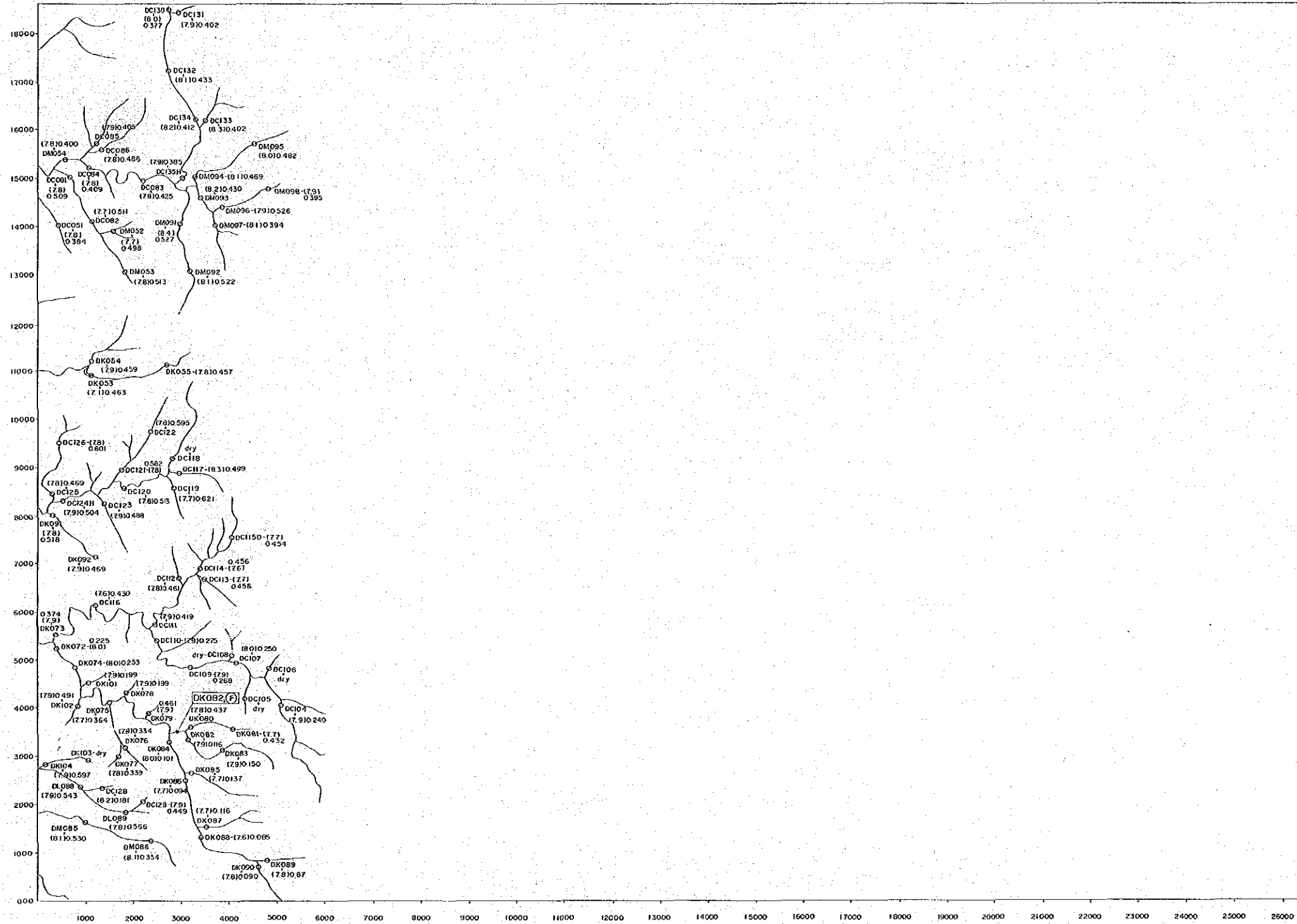
LEGEND

- O : Sampling point (Stream sediment, heavy mineral)
- (7.0) : pH
- 0.280 : Electric conductivity ($\mu\text{s}/\text{cm}$)
- [B-48] : Sampling point (for laboratory work)

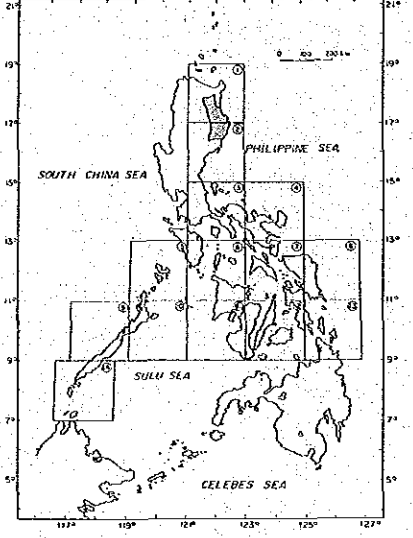
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3373 W FAIRE	3373 E TWIN PEAKS	3373 N BAGUIO
3374 W SIBUO	3374 E GALLAO	3374 N BAGUIO POINT
3375 W TOLARAN	3375 E BAGUIO	3375 N LODIG POINT
3376 W CARMAN	3376 E DOCATARAN RIVER	3376 N LOSINT
3377 W RAMAGAN	3377 E MOUNT CRESTA	3377 N SOMALAYAN PEAK
3378 W TAGAN	3378 E LUNSONG	3378 N PALLANAN
3379 W CAUBANAN	3379 E SAN MARINO	3379 N WAGANAN RIVER
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3381 W JONES	3381 E MOUNT DOS HERMANOS	3381 N MOUNT ROCKY

TWIN PEAKS

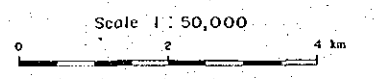
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 PHASE II
 SAMPLING POINT, pH VALUES AND
 ELECTRIC CONDUCTIVITY VALUES
 NORTHERN SIERRA MADRE AREA



JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
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LEGEND

3374 #	3375 #	3474 #	3475 #
SATUBAN	LAPUSAN	SARUNAN	POINT
3373 IV	3373 I	3473 IV	TWIN
FAINE	BAGGAS	PEAKS	
3373 III	3373 II	3473 III	BOBO
18016	GALLAD	PONCE	
3372 IV	3372 I	3472 IV	LOBO
HOAGARAN	OLANGA	POINT	
3372 #	3472 #	3472 #	RODOLFO
CASBON	DIKATIAN	RODOLFO	POINT
3371 I	3471 IV	3471 IV	BARAN
TUMAUAN	KONAY	DOULACAN	PEAK
3371 #	3471 #	3471 #	PALANAN
FLAGAN	LUPIGUE	PALANAN	
3370 I	3470 I	3470 I	PROCESO
CAUTANAN	MARANAN	RIVER	
3370 #	3470 #	3470 #	POINT
SANTAGO	PIRAT	BUNASAN	
3369 IV	3369 I	3469 IV	POINT
30AES	DIBALAN	POINT	
	BERMUNDO	ROCKY	

- O : Sampling point (Stream sediment, heavy mineral)
- (7.0) : pH
- 0.280 : Electric conductivity (µs/cm)
- [B-48] : Sampling point (for laboratory work)