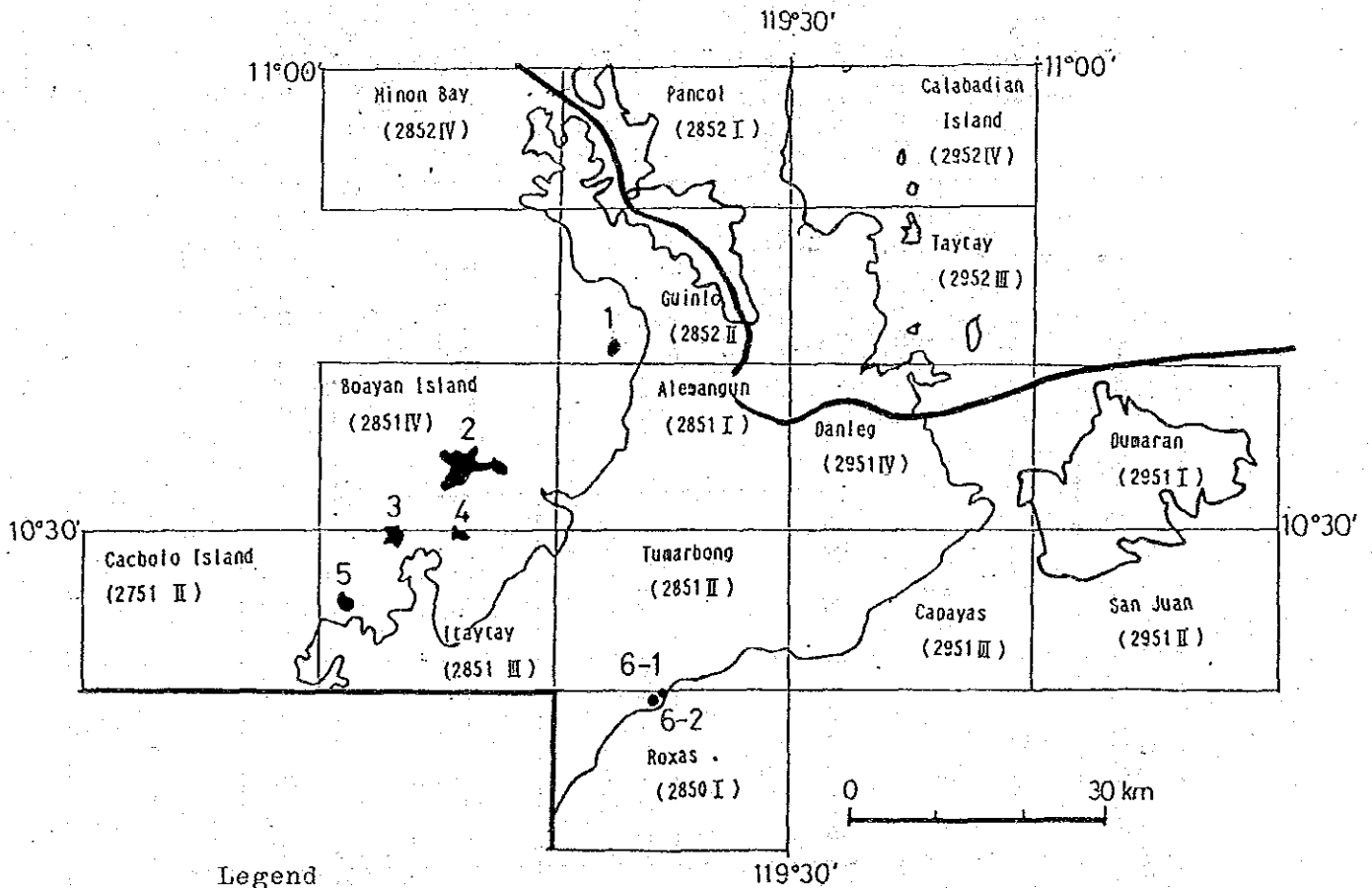
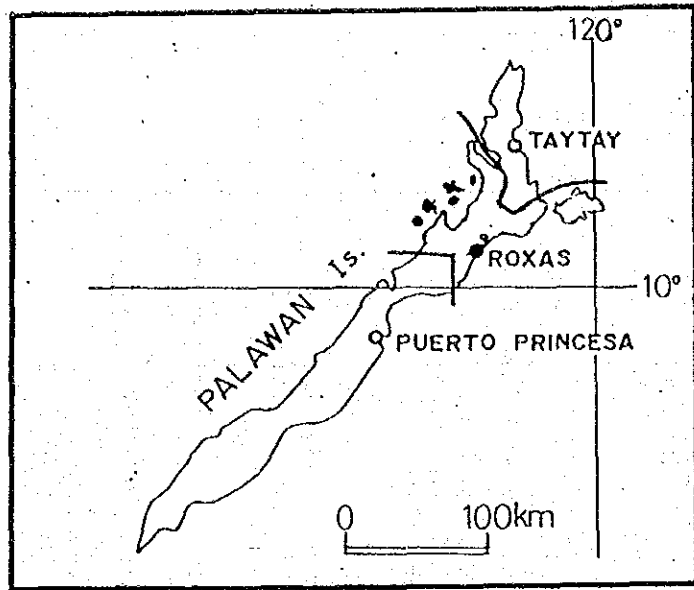


No.	Name of Island	1/50,000 Topo. Map	No. of Topo. Map	Name of Formation	Rock Facies	Mineralization	Evaluation
17	Calabadian	Calabadian	2952IV	Limnangcong F. Bacuit F.	White or bluish gray to black massive chert. Black slate, massive sandstone.	NIL NIL	E E
18	Icabanbanauan	Taytay	2952III	Bacuit F.	Alternation sandstone, slate, shale, Folding axis NW-SE direction.	NIL	E
19	Ibobor	"	"	Limnangcong F.	White chert	NIL	E
20	Paly	"	"	Serpentinite	Serpentinized peridotite, serpentine.	Chromite disseminated,	C
21	Cagbalulu	Pancol	2852 I	Limnangcong F.	White layered chert, folding axis NE-SW.	Iron oxide	E
22	Tuluran	Pancol / Bebeladan	2852 I / 2853 II	Limnangcong F. Minilog F. Bacuit F.	white layered chert, greenish gray chert, folding axis N-S to NE-SW. Limestone. Black shale, medium grain sandstone	Iron oxide NIL NIL	E E E
23	Lagen	Bebeladan	2853 II	Minilog F.	Massive limestone, crystalline limestone	NIL	E
24	Guntao	"	"	Limnangcong F.	Gray layered chert, monoclinic structure decline to NE.	NIL	E
25	North Guntao	"	"	Limnangcong F.	Gray layered chert, monoclinic structure decline to NE.	NIL	E
26	Minilog	"	"	Minilog F.	Gray-dark gray massive limestone, crystalline limestone.	NIL	E
27	Matinloe	Bebeladan / Bacuit	2853 II / 2853 I	Minilog F.	Dark gray-white massive limestone platy joint very clear.	NIL	E
28	Tapiutan	Bacuit	2853 I	Minilog F.	Pale gray massive limestone	NIL	E
29	Inambogol	"	"	Minilog F.	Pale gray massive limestone	NIL	E
30	Dilumacad	"	"	Minilog F. Bacuit F.	Pale gray massive crystalline limestone. sandstone	NIL NIL	E E
31	Cadlao	"	"	Minilog F. Bacuit F.	Gray massive crystalline limestone. Sandstone, phyllite, E-W folding Gray massive limestone.	NIL NIL NIL	E E E
32	Labnog Cauayan Cauayanamunti	" " "	" " "	Minilog F. " "	Gray massive crystalline limestone. "	NIL NIL	E E
33	Labutaya	Labutaya Island	2854 II	Bacuit F.	Alternation conglomerate, sandstone, shale monoclinic structure decline to NE.	NIL	E



- Legend
- ♥ 1, 2, 3, 4, 5 Surveyed Small Islands.
 - 6-1, 6-2 Surveyed Silica Sand Showing.

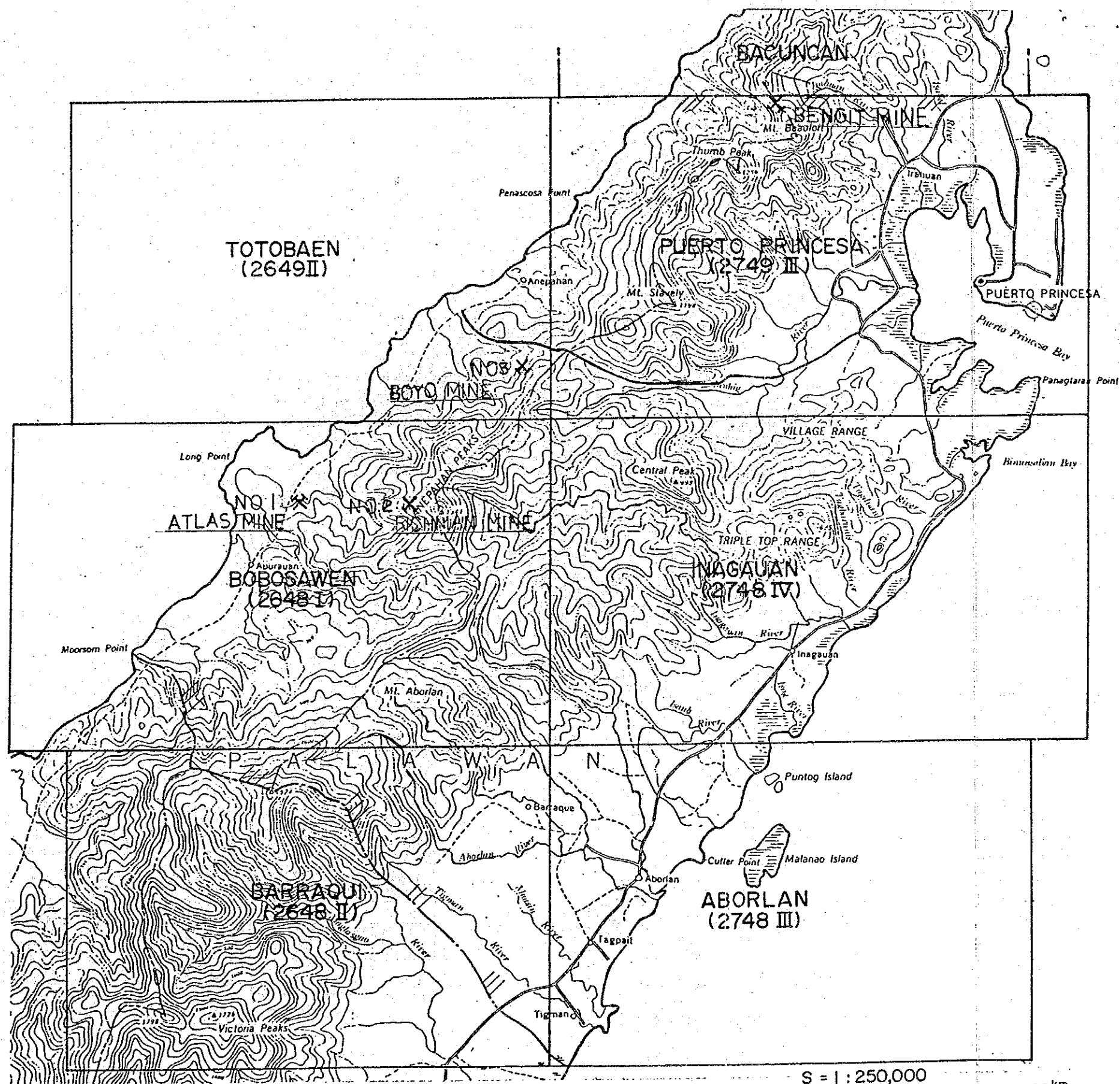
Location and Number of Surveyed Small Islands & Silica Sand Showing in Roxas Area, Palawdn.

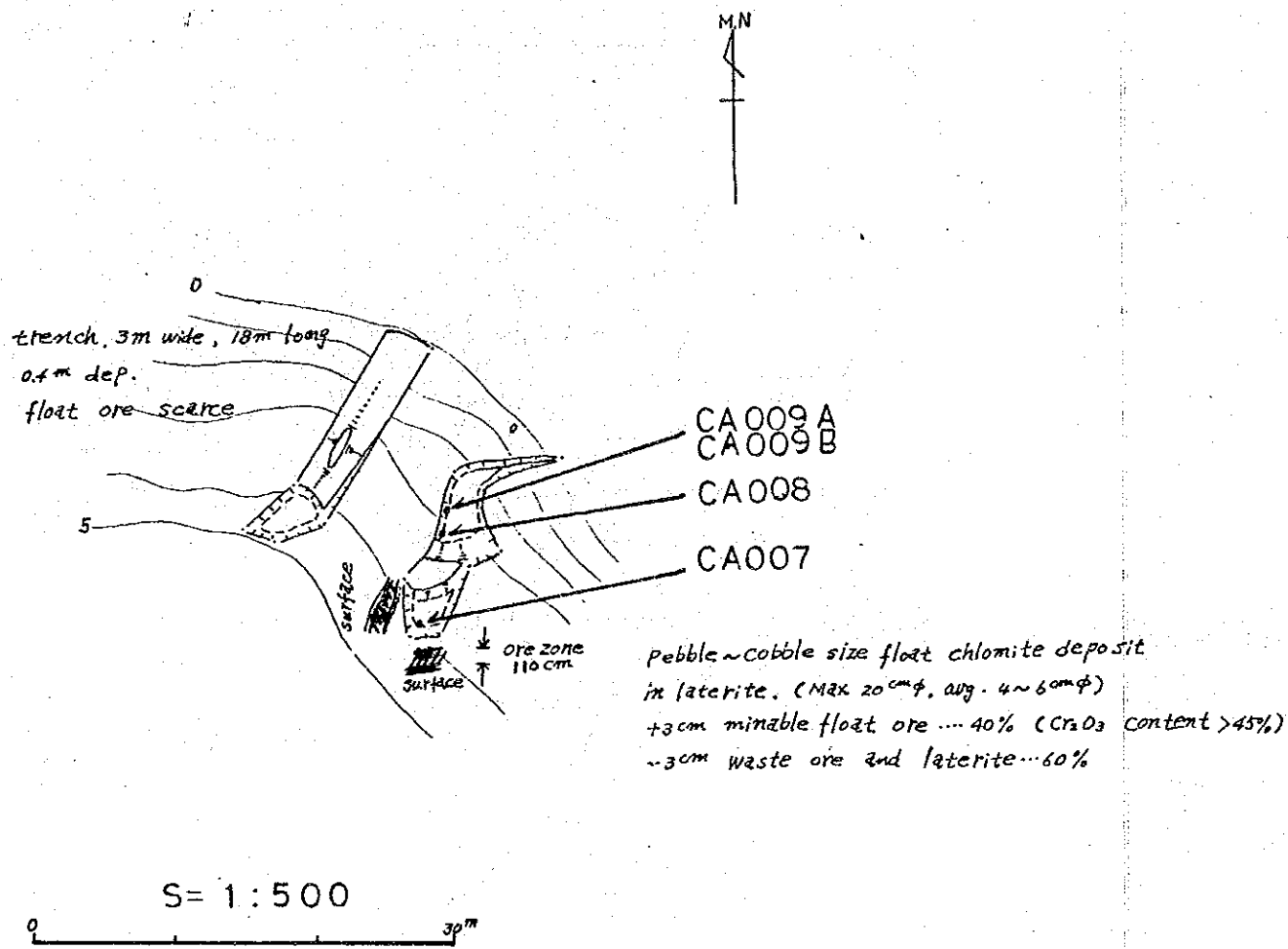
Table of Surveyed Small Island and Silica Sand Showing
in Roxas Area, Palawan.

No.	Name of Is- or Showing	Name of Map 1/50,000	No. of Topo. Map	Formation	Rock Facies	Minerali- zation	Evaluat- ion
1	Bay	Guinlo	28522	Copcoas grano- diorite	Medium grain biotite grano- diorite	NIL	E
2	Boayan	Boayan Island	28514	Babuyan River turbidite Conception Phyllite Denieg sandstone	Sandstone shale alternation parallel laminae; strong Dark gray conglomeratic phyllite quartzite interbed in places. Unaltered medium-silicious wacke NE direction thrust visible.	NIL NIL NIL	E E E
3	Cagnipa	Boayan Island Itaytay	28514 28513	Babuyan River turbidite	Alternation sandstone-siltstone mudstone shale parallel laminae strong.	NIL	E
4	Albagnen	Boayan Island Itaytay	28514 28513	Babuyan River turbidite	Alternation sandstone-darkgray phyllite, black phyllite and lenticular coarse sandstone, parallel laminae strong, NE striated SE declined fault visible.	NIL	E
5	Catalat	Itaytay	28513	Babuyan River turbidite	Alternation sandstone-coaly shale parallel laminae strong.	NIL	E
6A	Vulcan	Roxas	28501	Recent sediment	Coast silica sand derived from sandstone in Babuyan River turbidite	NIL	D
6b	Ninbay	Roxas	28501	"	"	NIL	D

Appendix 12 Sketch of Mineral Showings

LOCATION MAP OF THE SPOT INVESTIGATION IN PUERTO AREA

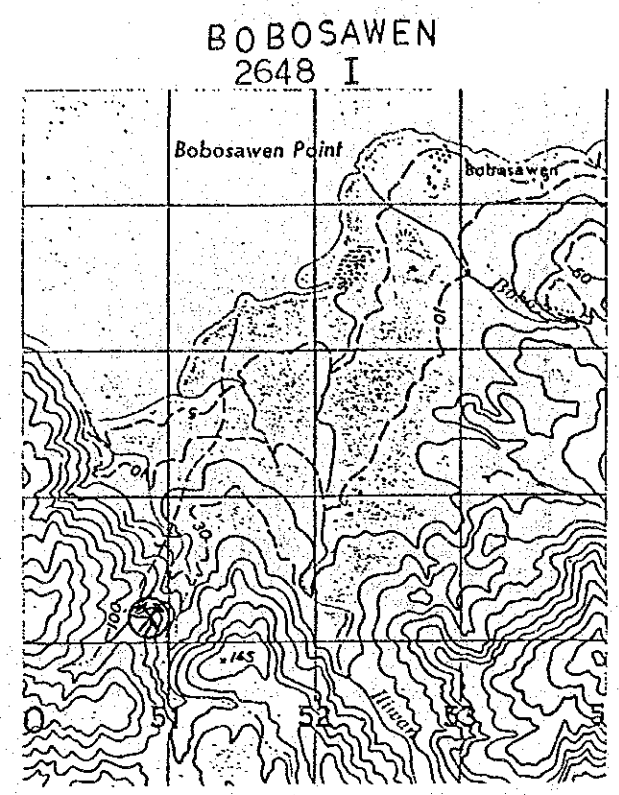




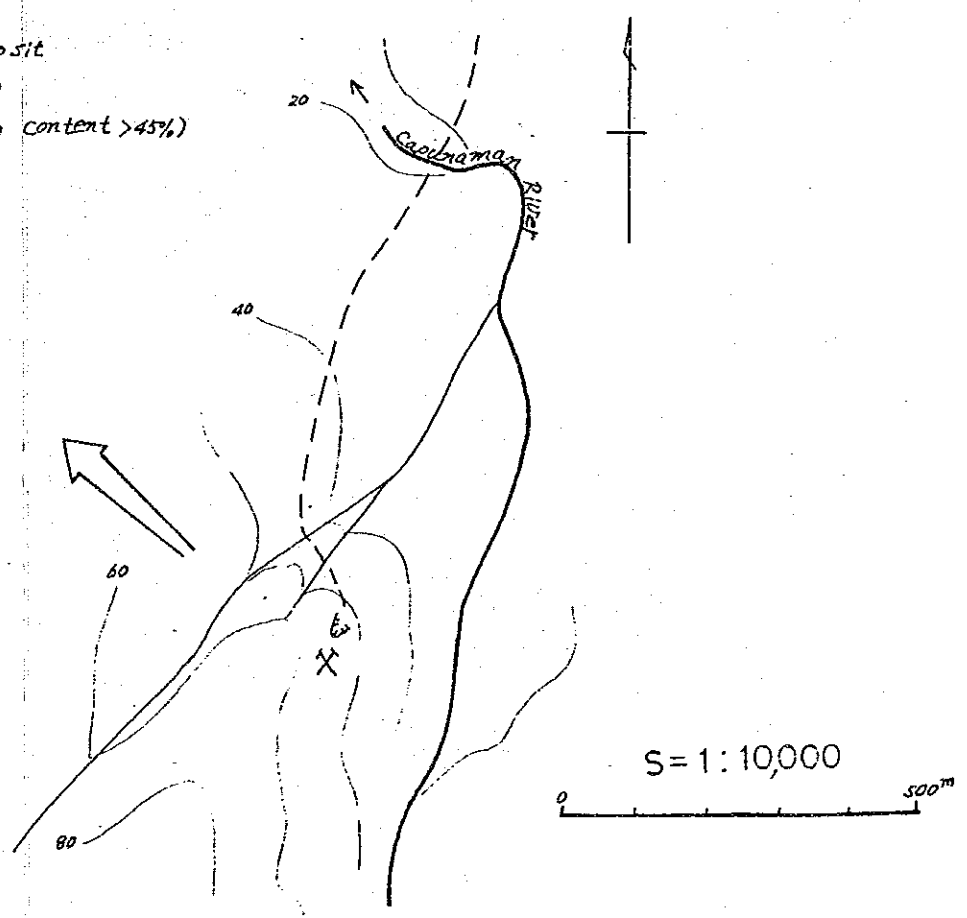
Assay RESULTS

Sample No.	SiO ₂ (%)	Cr ₂ O ₃ (%)	T-Fe (%)	MgO (%)	Al ₂ O ₃ (%)	Total (%)
CA007	0.4	53.1	10.3	13.7	17.4	94.9
CA008	0.4	61.0	11.0	13.1	17.0	92.5
CA009A	0.6	47.1	11.7	12.6	19.2	91.2
CA009B	0.2	54.3	9.5	14.5	16.5	95.0

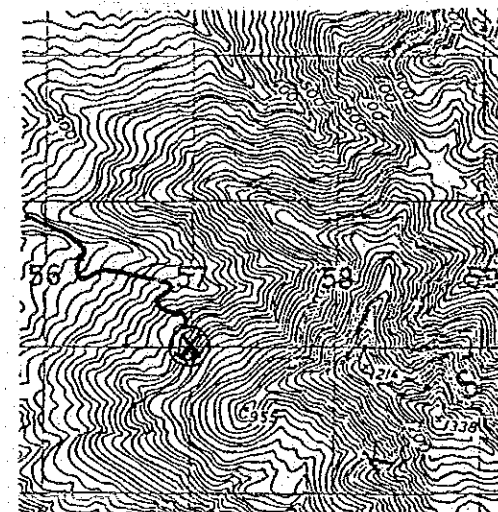
Fig -5
SPOT INVESTIGATION
NO 1
ATLAS MINE
BOBOSAWEN, PALAWAN (PUERTO)
MAR, 1986



S = 1:50,000



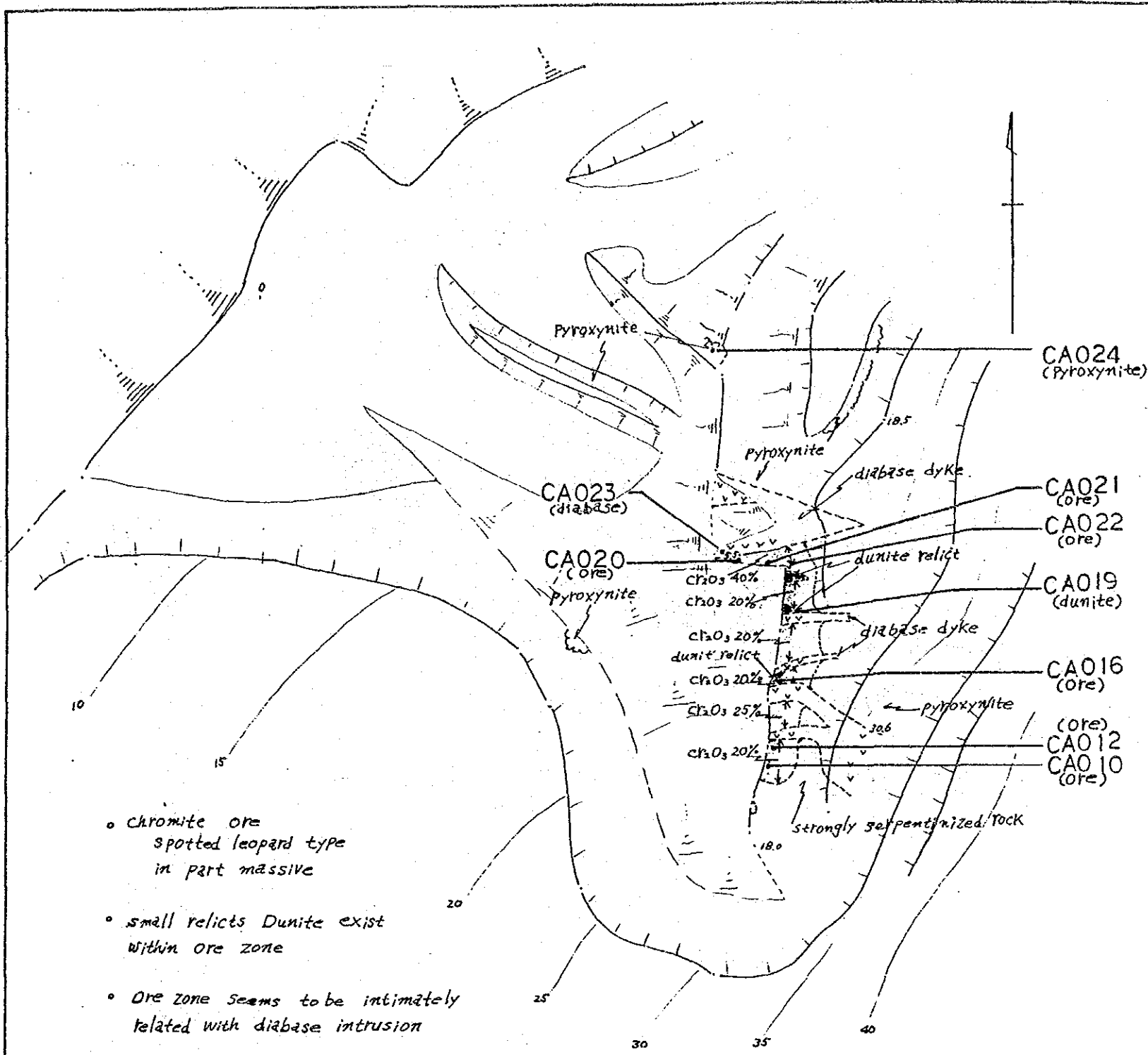
BOBOSAWEN
2648 I



S=1:50,000

Assay Results

Sample no.	SiO ₂ (%)	Cr ₂ O ₃ (%)	T-Fe (%)	MgO (%)	Al ₂ O ₃ (%)	Total (%)
CA010	18.6	28.1	7.4	26.3	13.1	91.5
CA012	6.0	40.8	8.5	20.8	19.4	95.5
CA013	13.8	32.2	7.3	23.9	15.8	93.0
CA016	12.0	33.3	8.0	23.4	15.2	91.9
CA020	13.1	32.8	7.5	24.0	15.3	92.7
CA021	4.3	48.8	8.6	18.8	14.9	95.4
CA022	12.9	33.5	7.8	23.8	14.4	92.4



- chromite ore spotted leopard type in part massive
- small relicts Dunitite exist within ore zone
- Ore zone seems to be intimately related with diabase intrusion

S=1:500

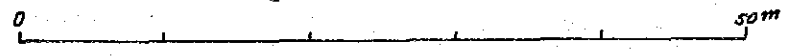
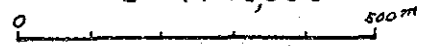
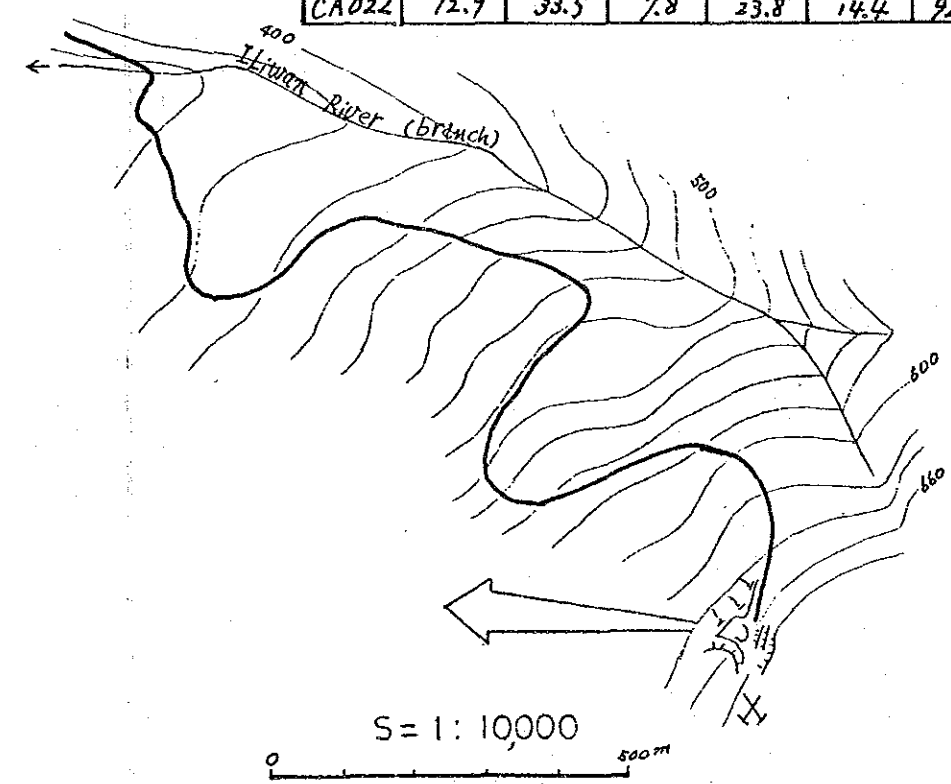
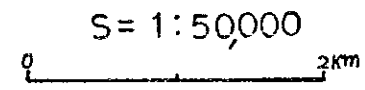
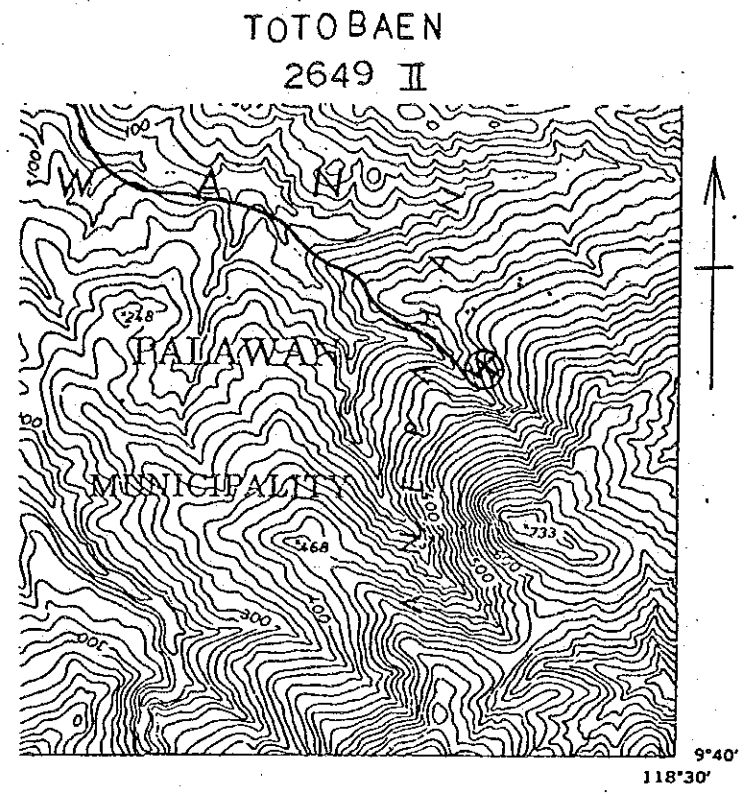
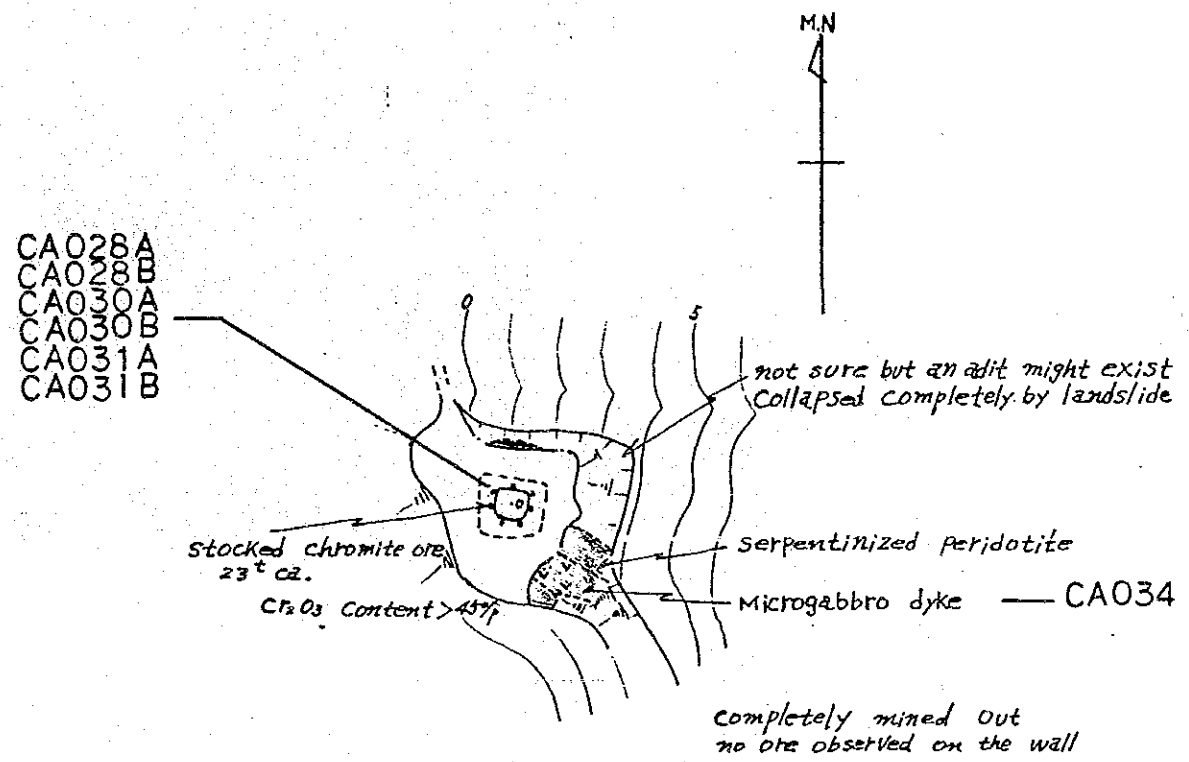


Fig - 6
SPOT INVESTIGATION
NO 2
RICHMAN MINE
BOBOSAWEN, PALAWAN III (PUERTO)
MAR. 1986



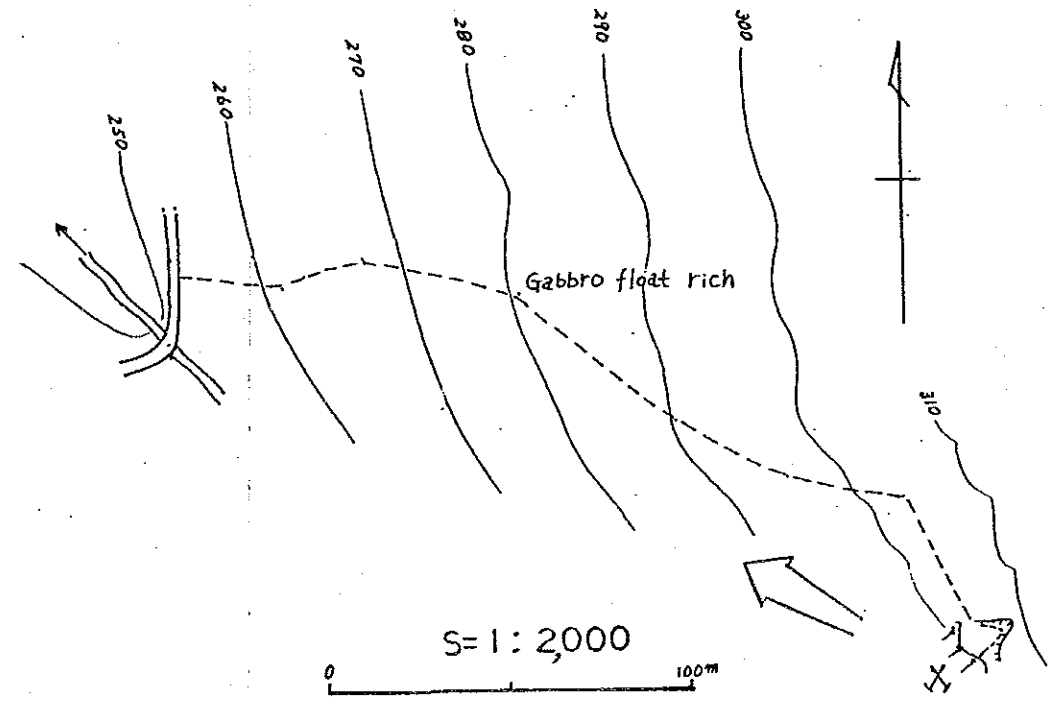


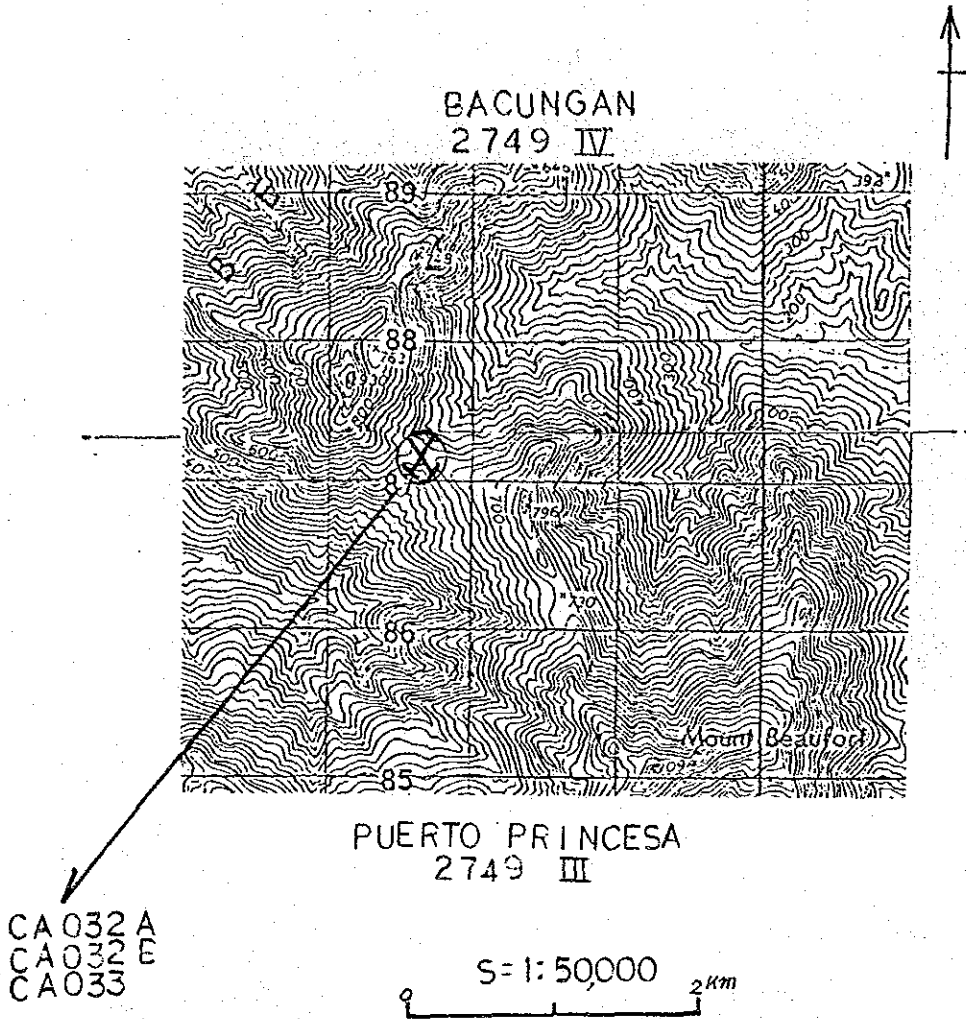
ASSAY RESULTS

Sample No.	SiO ₂ (%)	Cr ₂ O ₃ (%)	T.Fe (%)	MgO (%)	Al ₂ O ₃ (%)	Total (%)
CA028A	2.1	50.5	9.6	16.4	15.6	94.2
CA028B	5.3	46.6	9.4	18.1	14.5	93.9
CA030A	18.0	34.0	9.4	17.3	11.4	90.1
CA030B	44.8	1.1	3.1	25.4	8.8	83.2
CA031A	3.7	48.3	9.8	17.2	15.0	94.0
CA031B	5.8	45.8	9.1	19.0	14.4	94.1

Assay For Amphibolite

Fig - 7
 SPOT INVESTIGATION
 NO 3
 BOYO MINE
 TOTOBAEN
 (NAPSAN) PALAWAN III (PUERTO)
 MAR. 1986





ASSAY RESULTS

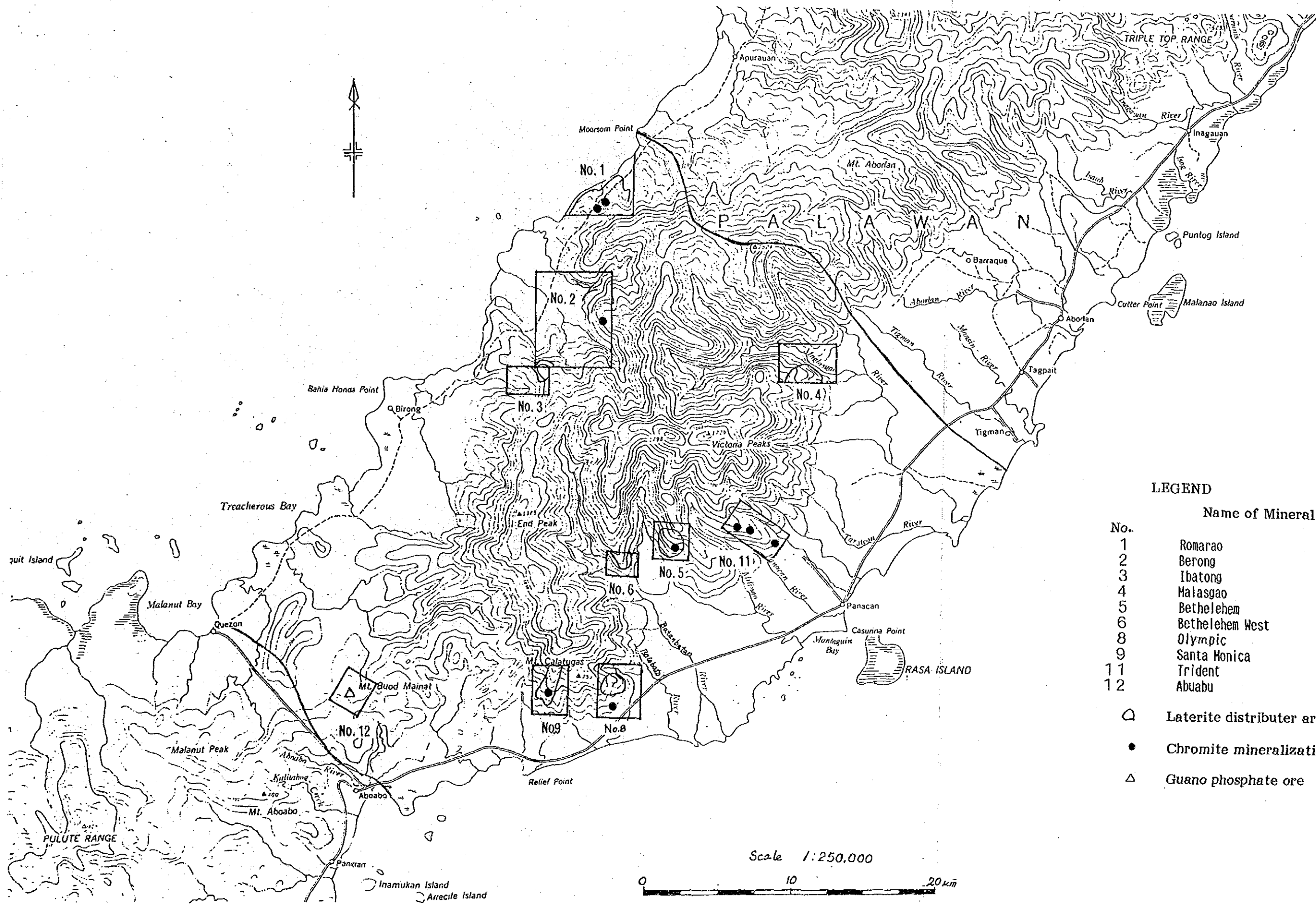
SAMPLE NO.	SiO ₂ (%)	CaO(%)	T-Fe(%)	MgO(%)	Al ₂ O ₃ (%)	Total(%)
CA032A	2.9	57.7	8.7	16.2	6.6	92.1
CA032B	3.0	69.0	9.2	16.0	6.4	93.6
CA033	24.7	23.9	7.6	28.3	2.7	87.2

X-Ray Diffraction
Sample No.
CA033

Identified minerals
Hydrotalcite (not clear) Serpentina (medium) chromite (small)

Fig - 8

SPOT INVESTIGATION
BENGUIT MINE
PUERTO PRINCESA PALAWAN III (PUERTO PRINCESA)
MAR 1966

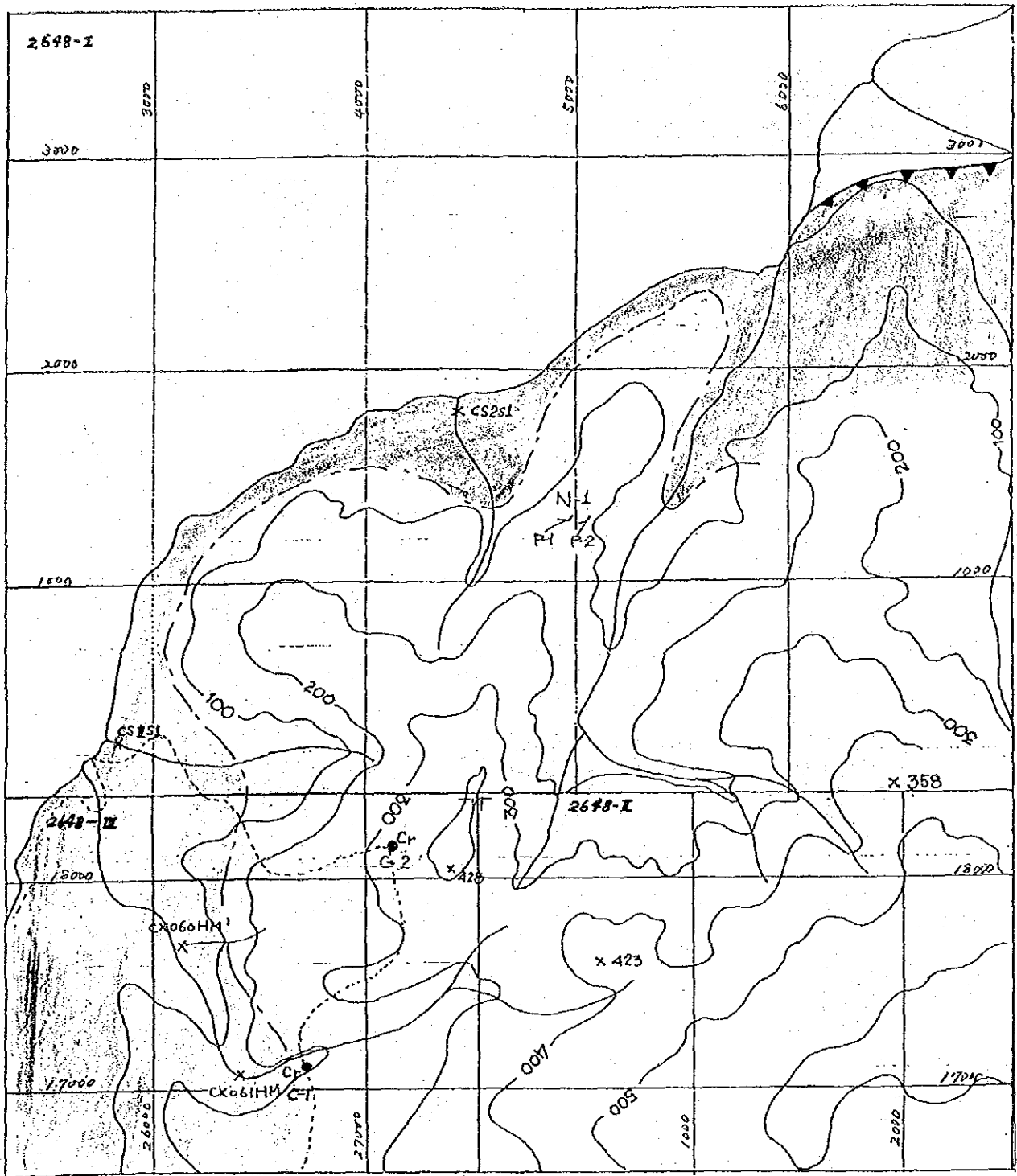


LEGEND

No.	Name of Mineral Showings
1	Romarao
2	Berong
3	Ibatong
4	Malasgao
5	Bethelehem
6	Bethelehem West
8	Olympic
9	Santa Monica
11	Trident
12	Abuabu

○	Laterite distributor area
●	Chromite mineralization
△	Guano phosphate ore

LOCATION MAP THE SPOT INVESTIGATION IN NARRA AREA

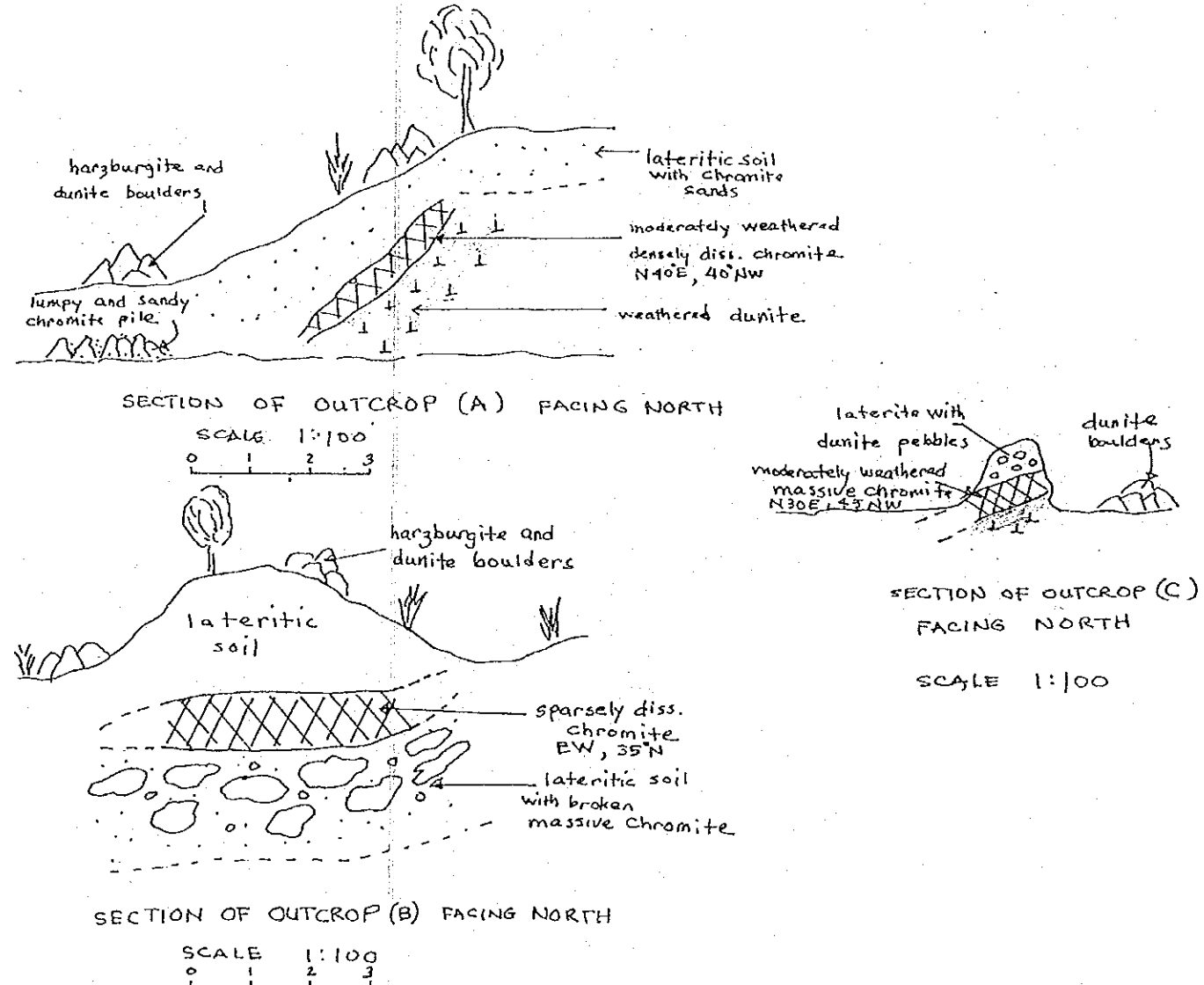
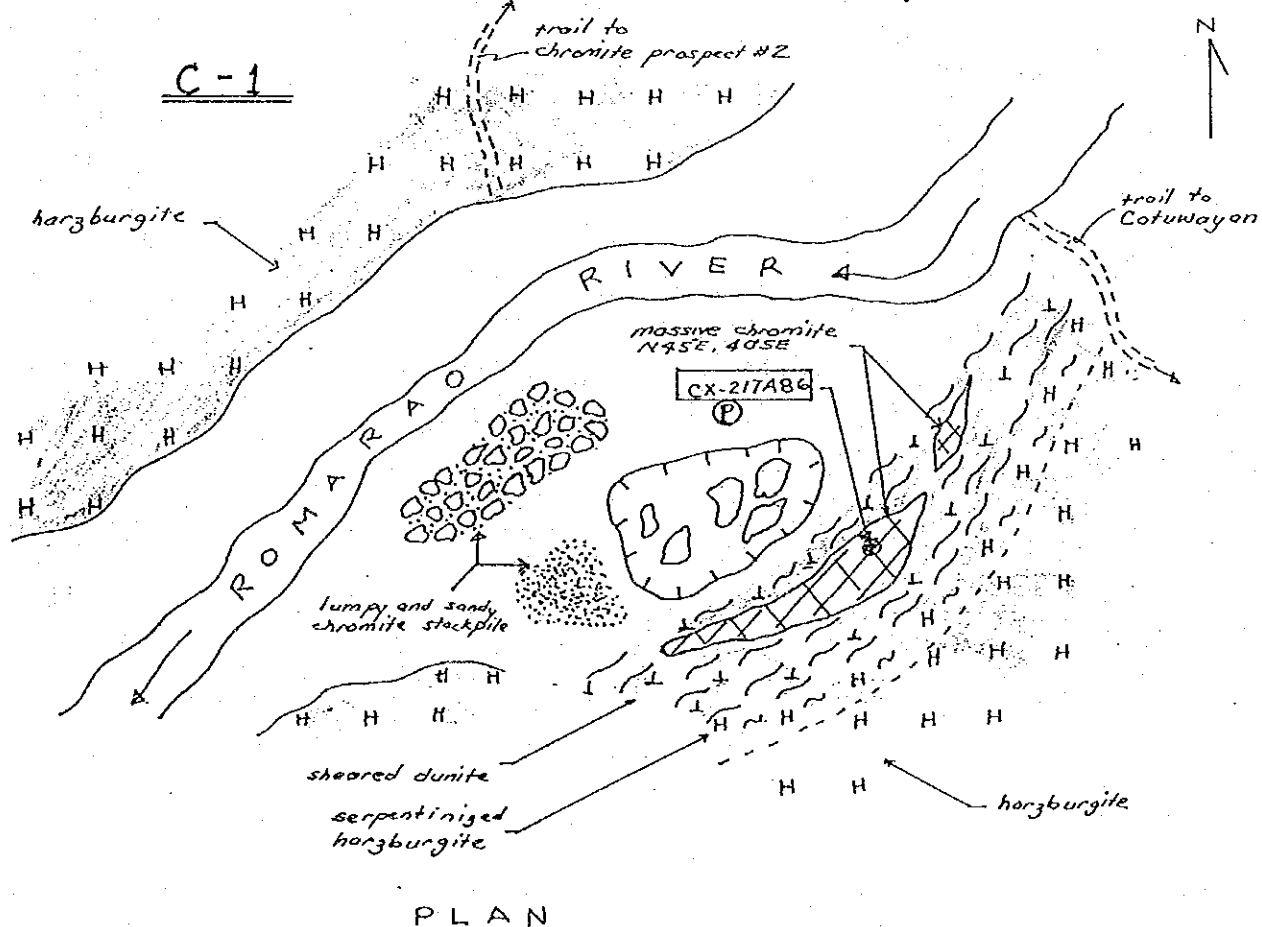
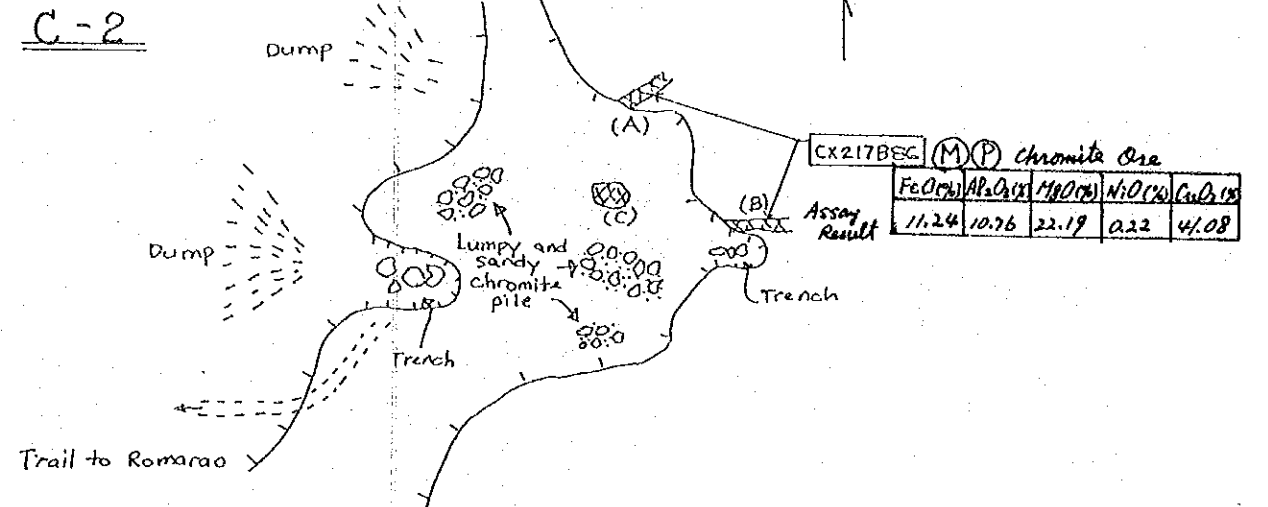
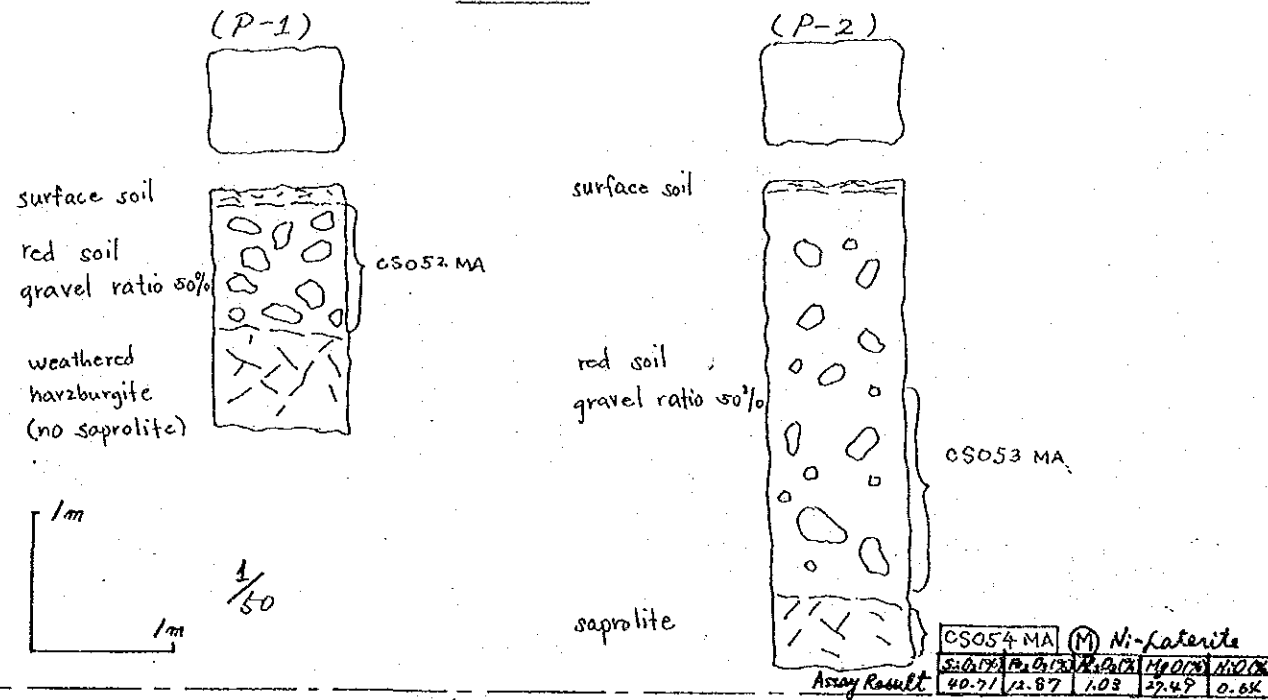


- Nickel Laterite Area
 - Test Pit Observation
 - Chromite Mineralization
 - Heavy Mineral Sample
- Hargburgite
 - green schist, quartz-sericite schist
 - Thrust

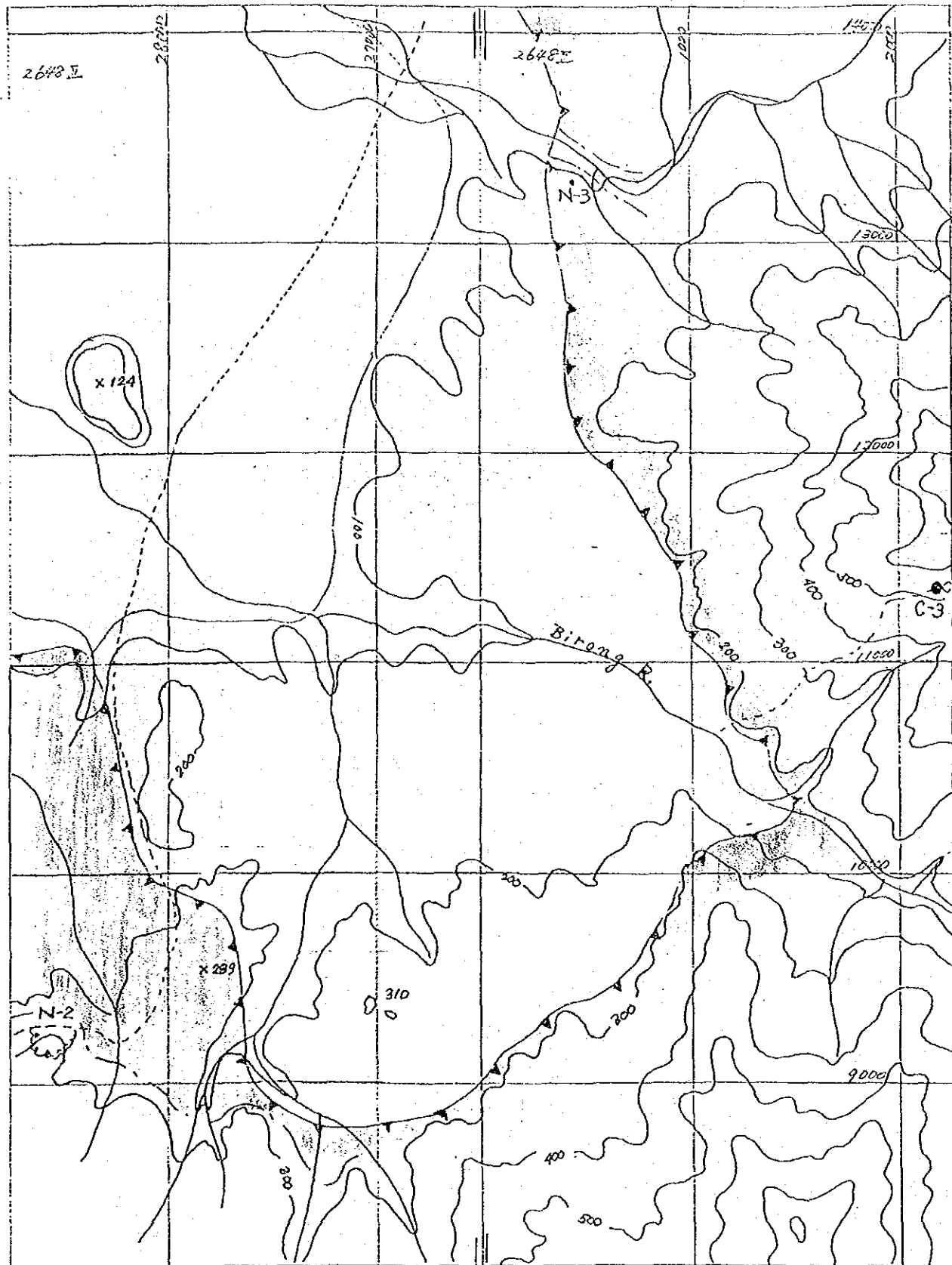
1 : 25,000
 1 km

Romarao (No.1) Showings Location Map

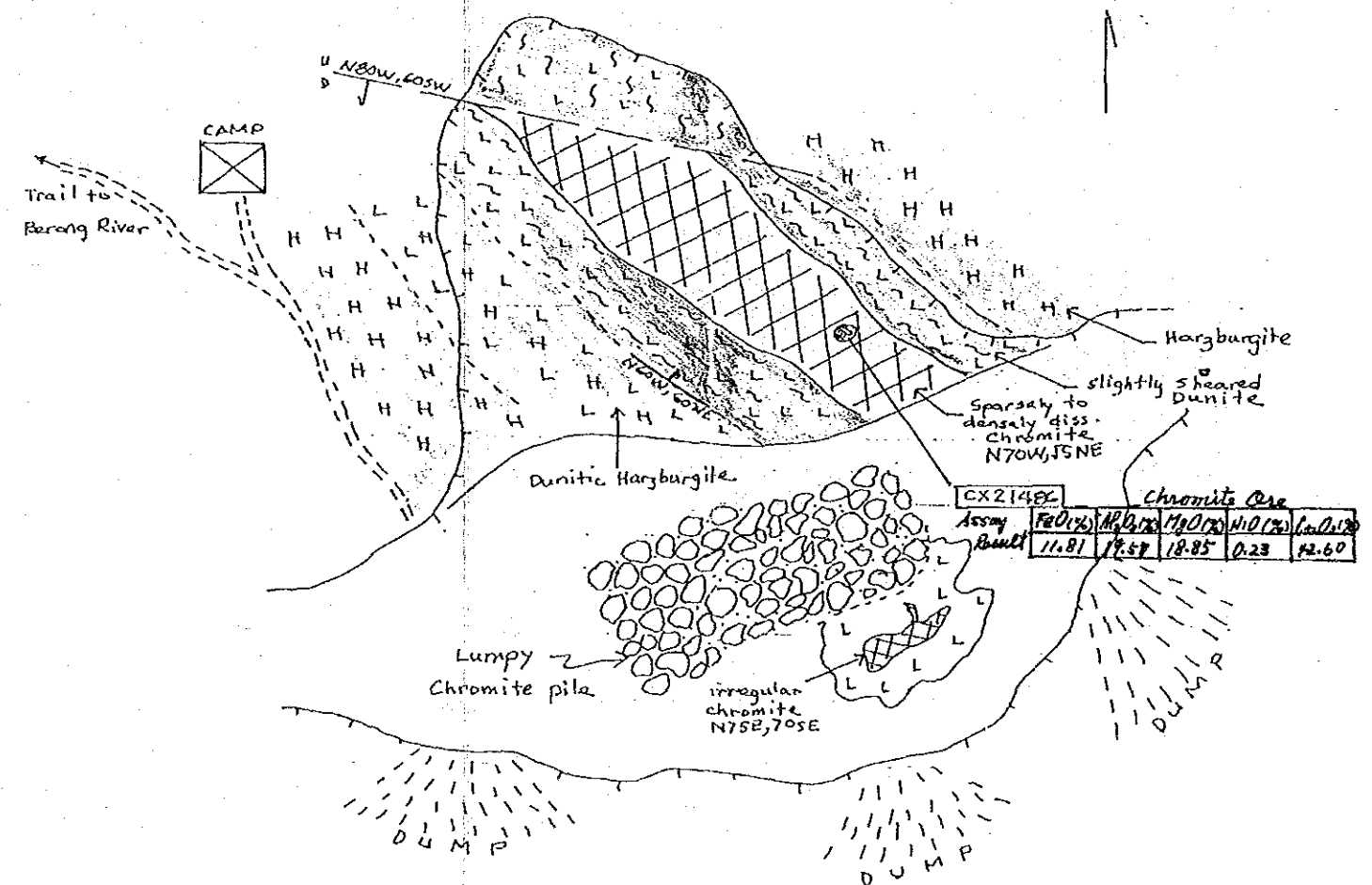
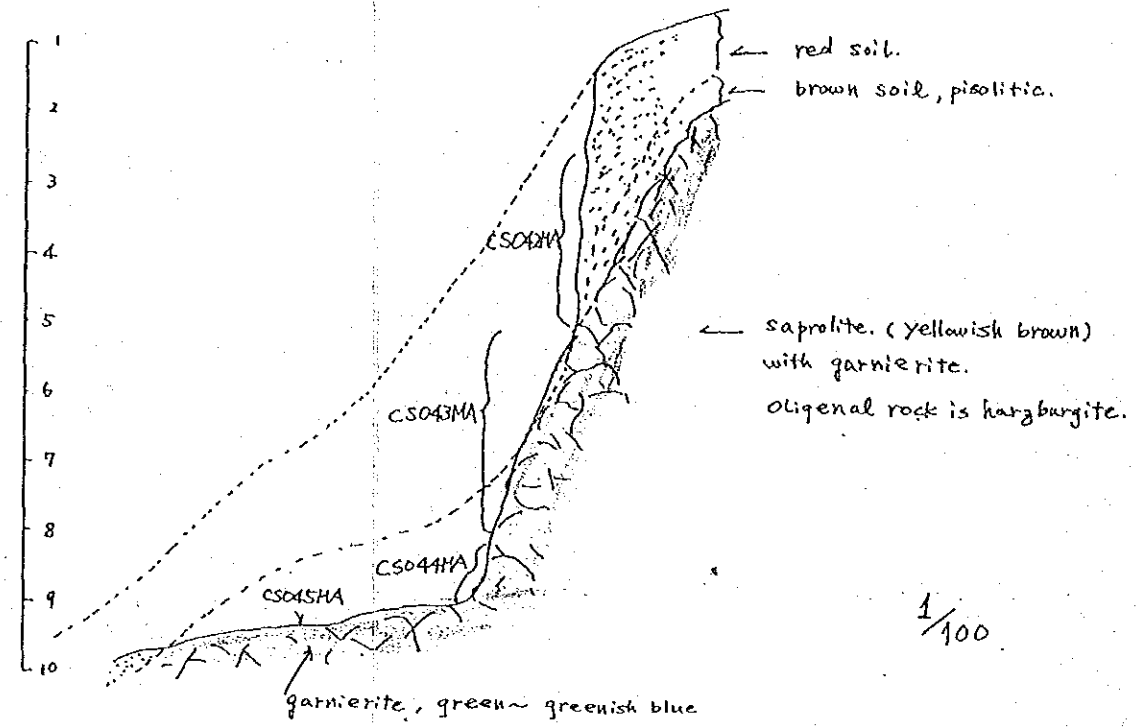
N-1 --- COLUMNAR SECTION OF TEST PIT



Romarao Showings (No.1) Route Map & Sketch



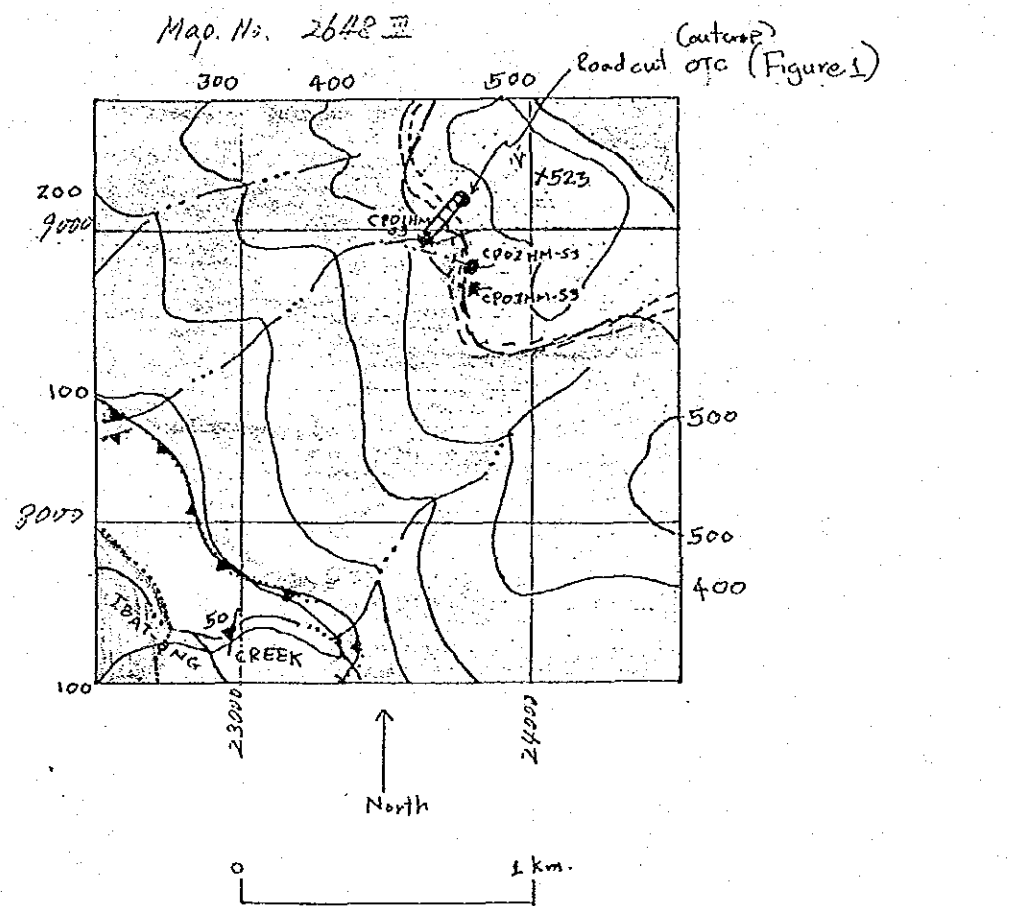
- Nickel Laterite Area
- Bench cut
- Test Pit Observation
- Chromite Mineralization
- Heavy Mineral Sample 1:25,000
- Hargburgite
- green schist, quartz-sericite schist
- Thrust



PLAN
BERONG CHROMITE AREA
SCALE 1:100

Berong Showing (No.2) Route Map & Sketch

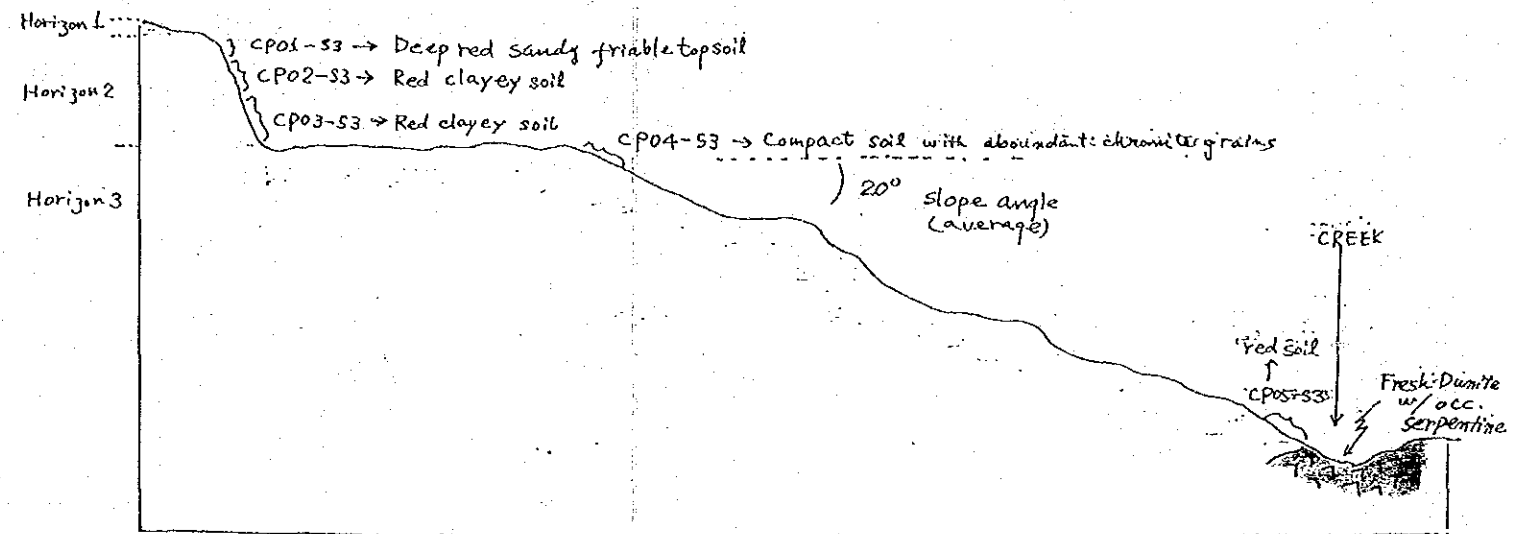
GEOLOGICAL MAP OF IBATONG Ni-LATERITE PROSPECT
(Spot Investigation No. 4)



EXPLANATION

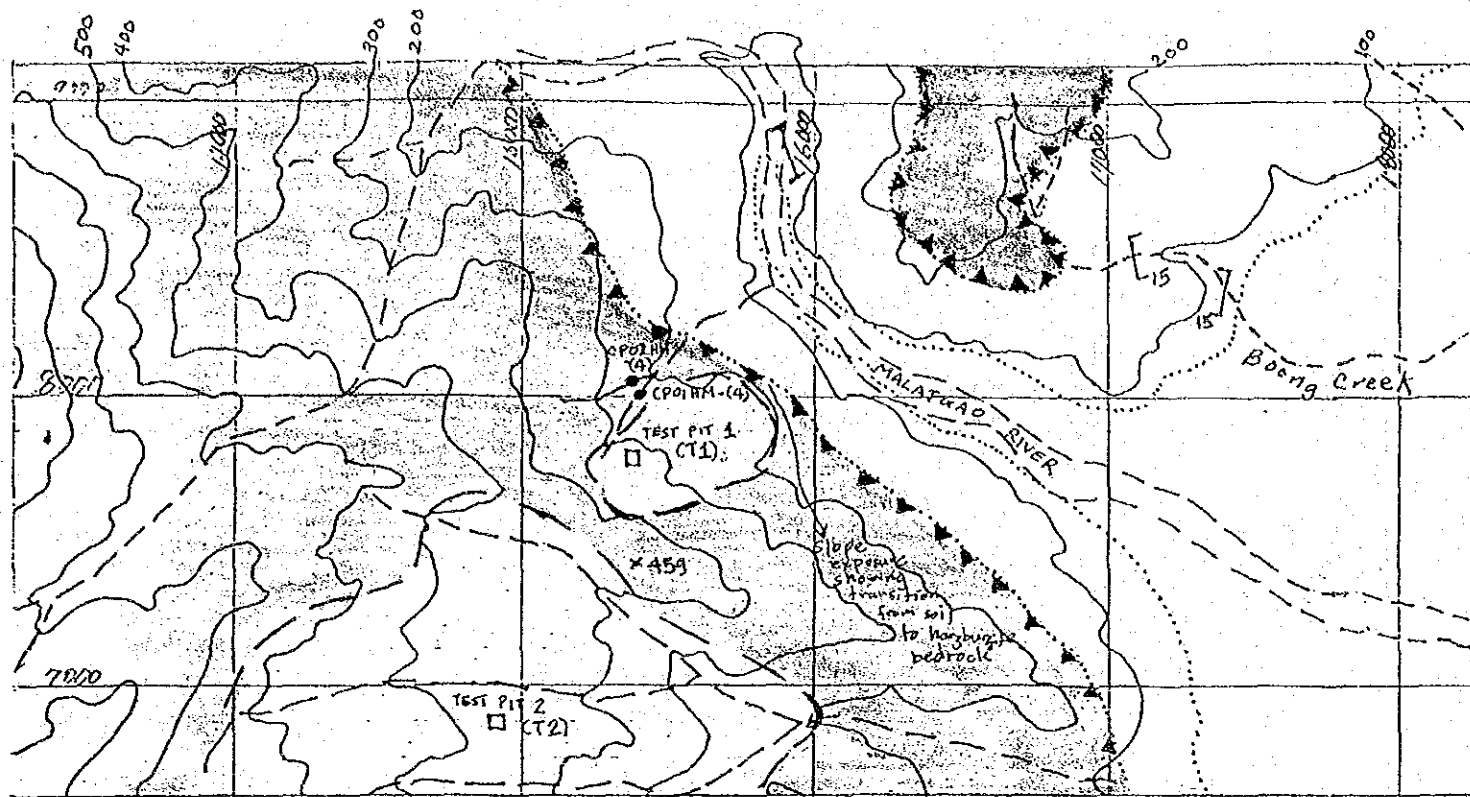
- Diabase
- Gabbro
- Harzburgite
- Inferred limit of lateritic soil
- Layering
- Lithologic Contact
- Roadcut exposure of lateritic soil (Fig. 1)
- Heavy Mineral Sample
- Drainage
- Contour in meters
- Approximate location of road

Figure 1. ROADCUT EXPOSURE

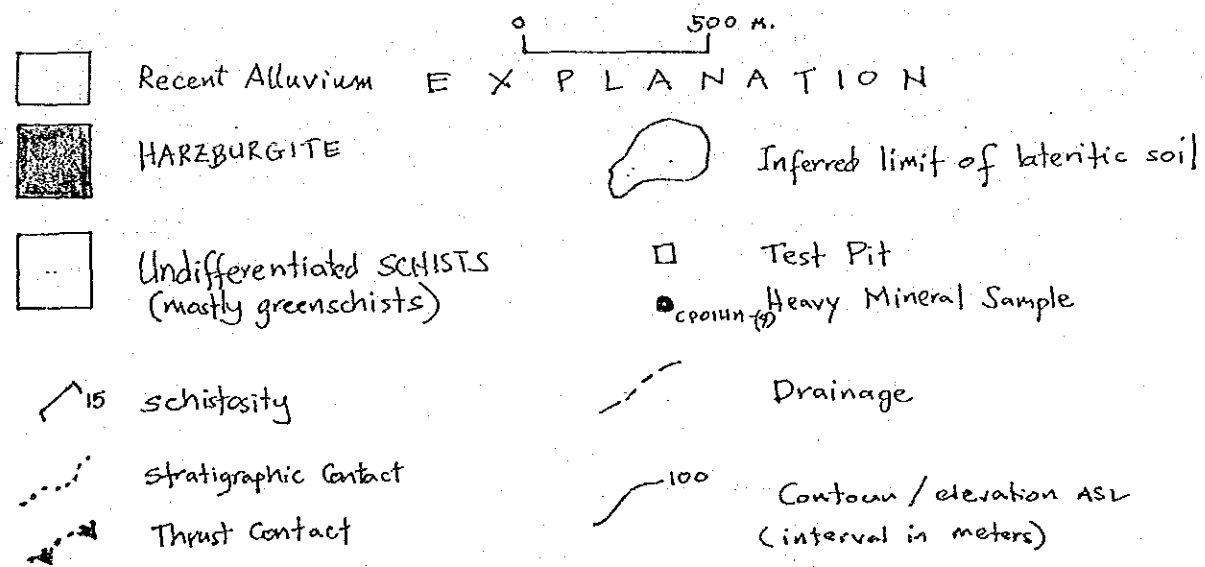


Assay Result

Sample No.	SiO ₂ (%)	Fe ₂ O ₃ (%)	Al ₂ O ₃ (%)	MgO(%)	NiO(%)
CP01S3	1.00	66.51	7.19	1.02	0.80
CP04S3	0.91	67.44	8.17	1.54	0.79



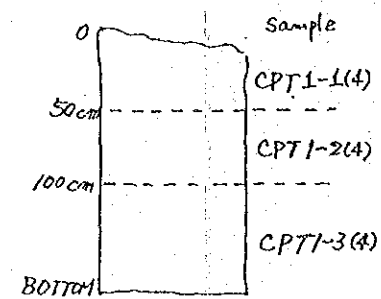
GEOLOGICAL MAP OF MALASGAO Ni-Laterite Prospect
(SPOT INVESTIGATION No. 4)



Malasgao Showing (No.4) Route Map & Sketch

SECTIONS

TEST PIT 1



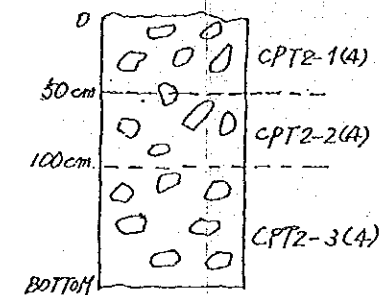
Assay Result (Ni-Laterite)

Sample No.	SiO ₂ (%)	Fe ₂ O ₃ (%)	Al ₂ O ₃ (%)	MgO(%)	NiO(%)
CPT1-1(4)	12.12	56.73	7.82	2.33	1.09

Homogeneous red lateritic soil
clay to sand size
negligible organic top soil

⇒ ~3° average slope angle

TEST PIT 2



Homogeneous red lateritic soil matrix
harzburgite boulders reach 20 cm in diameter almost same sizes, probably alluvial

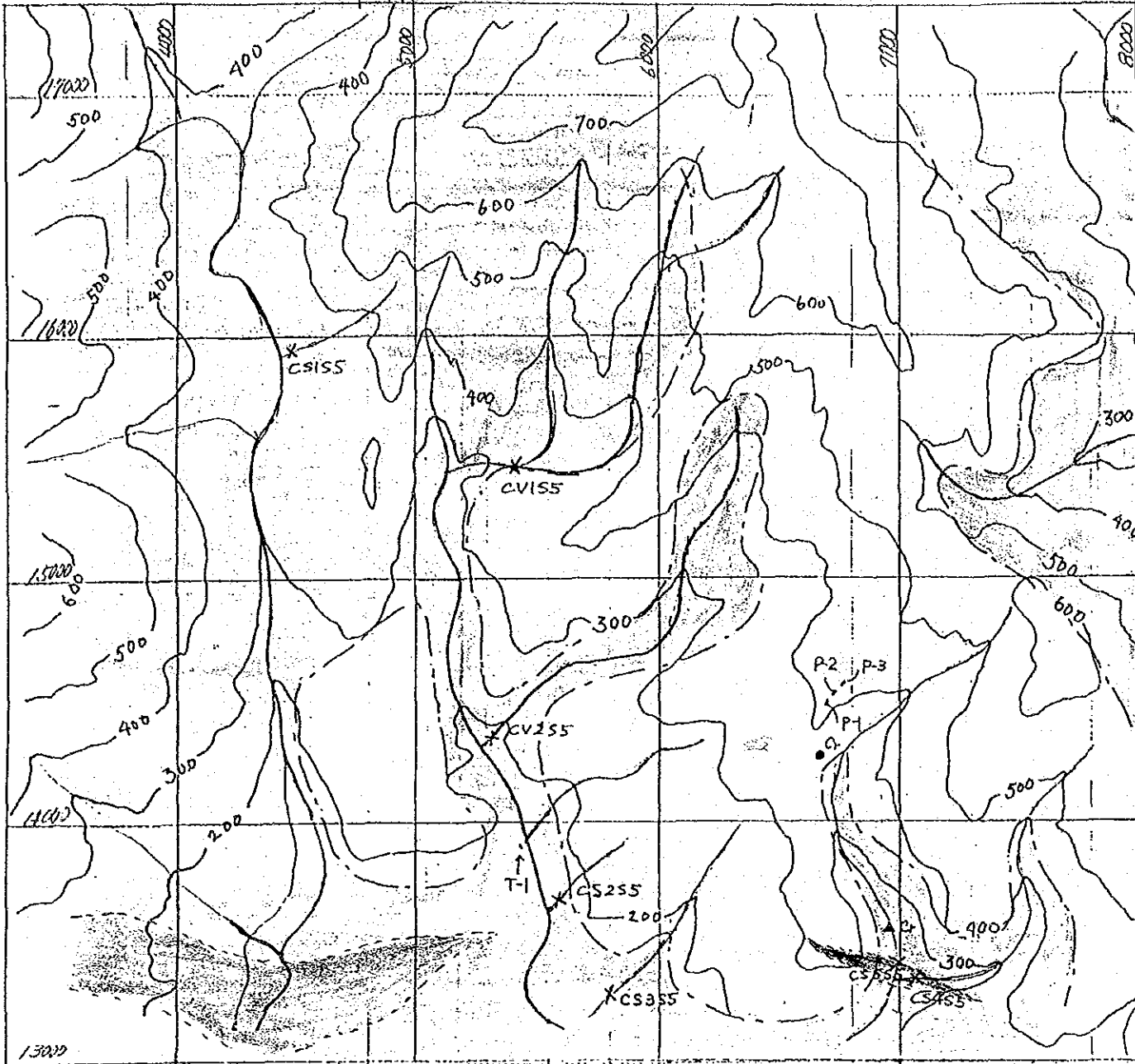
⇒ ~15° ave slope angle

REMARKS:

Although the test pits did not bottom into bedrock, one slope exposure along a trail from Malasgao R. to Test Pit 1 showed that the transition from red soil to harzburgite bedrock is not marked by any Ni-mineral and there is no discoverable change in soil color.



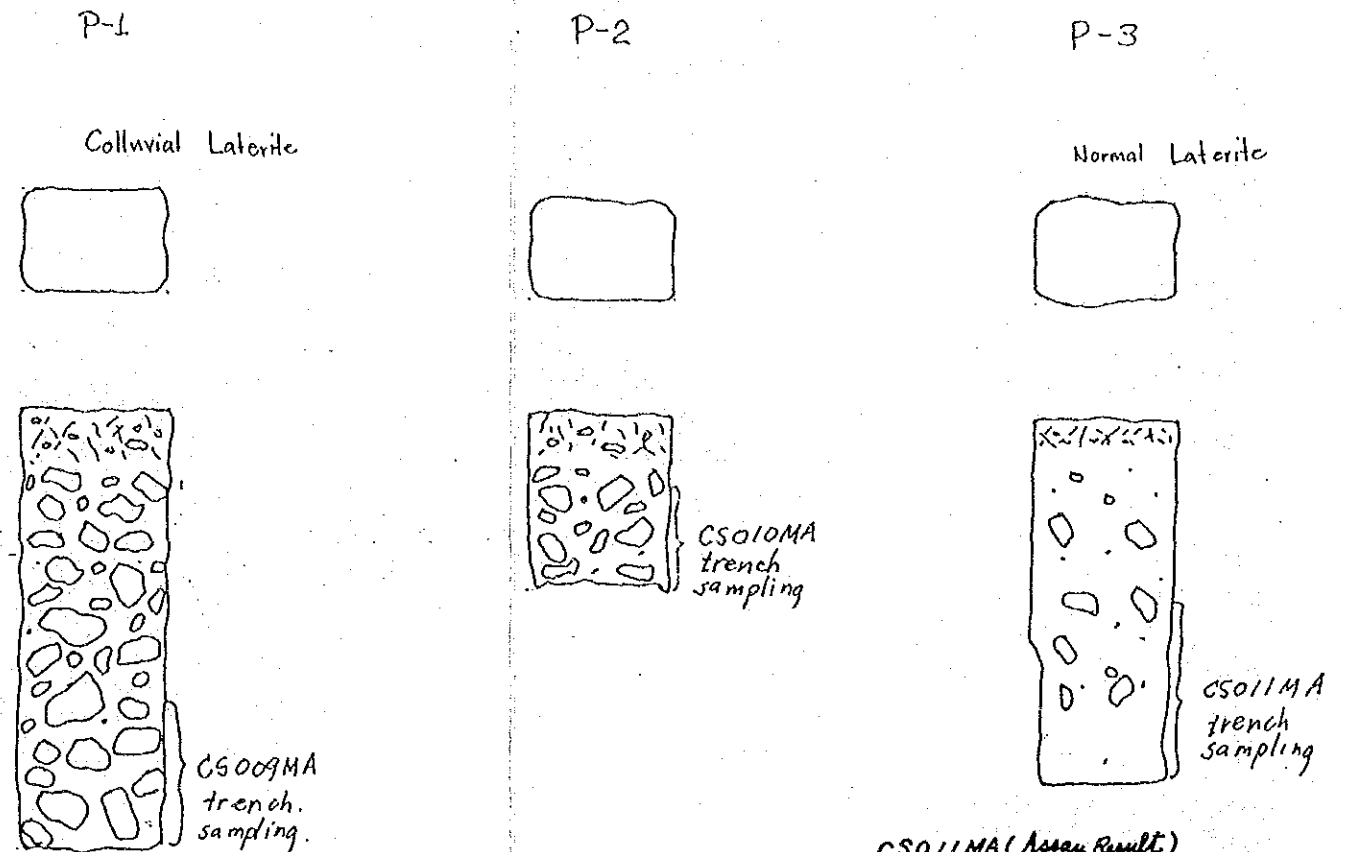
Map No. 2647-I



- Nickel Laterite Area
- Test Pit Observation
- Chromite Mineralization
- Chromite Float
- Heavy Mineral Sample
- Harzburgite
- Dumite

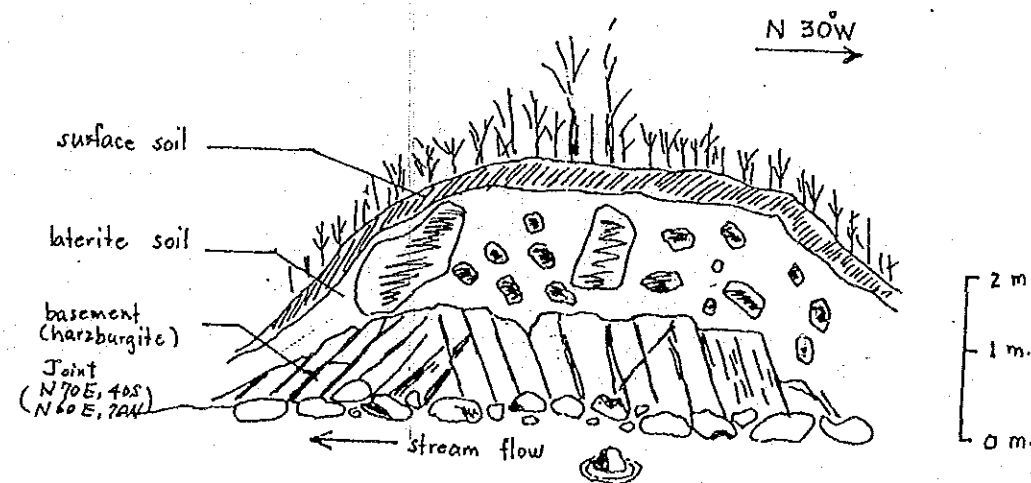
Bethlehem Showing (No.5) Route Map & Sketch

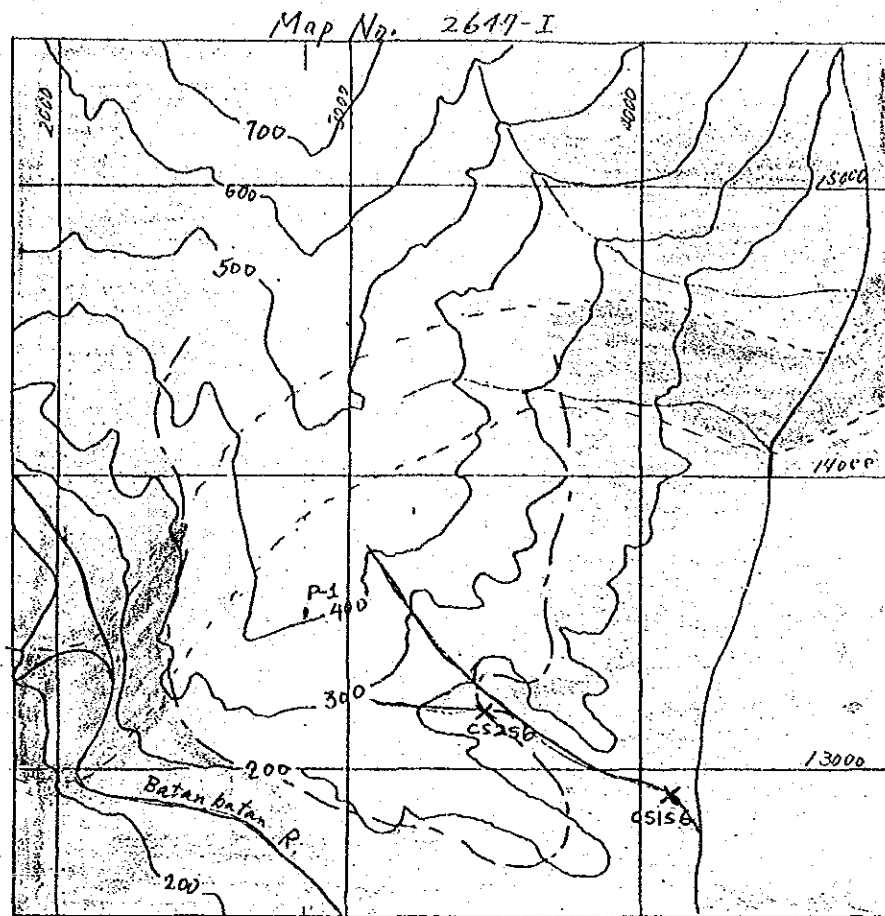
Columnar Section of Test pit



CS011MA (Assay Result)

S.O. (%)	Fe (%)	Al (%)	Mg (%)	Ni (%)
10.25	54.62	6.89	3.93	1.66

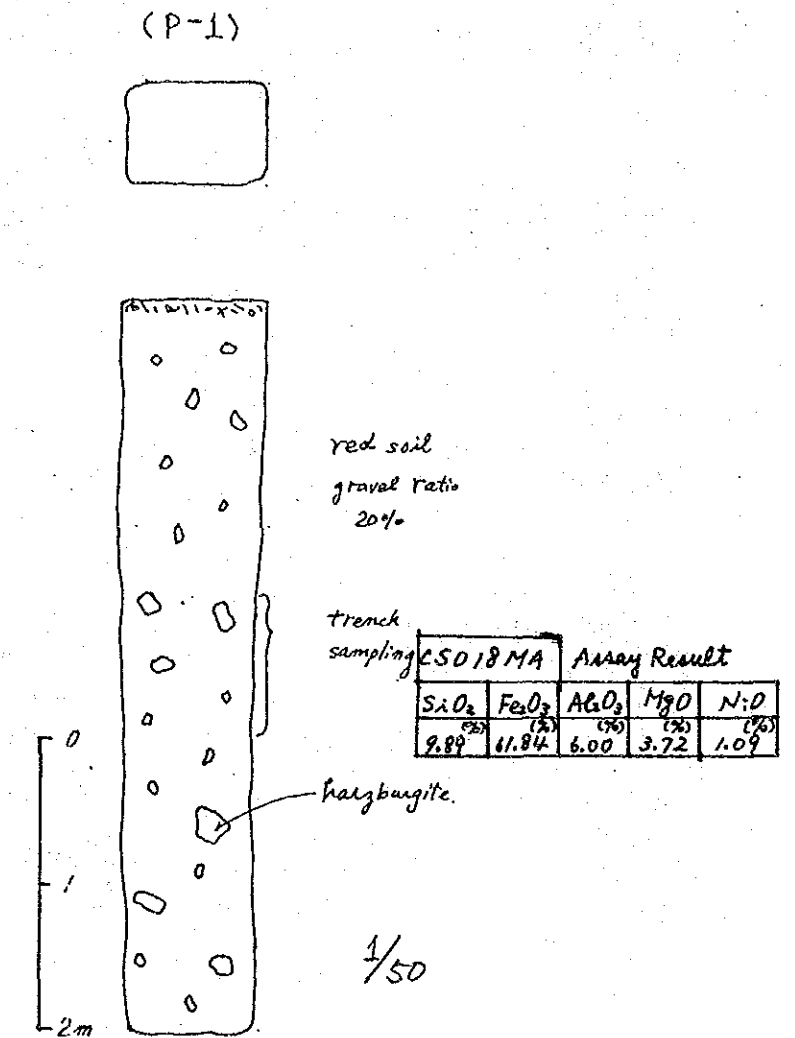




- Nickel Laterite
 - Harzburgite
 - Test pit Observation
 - Danite
 - Heavy Mineral Sample
- 1/25,000
- 0 ————— 1km

Bethlehem West Showing (No.6) Route Map & Sketch

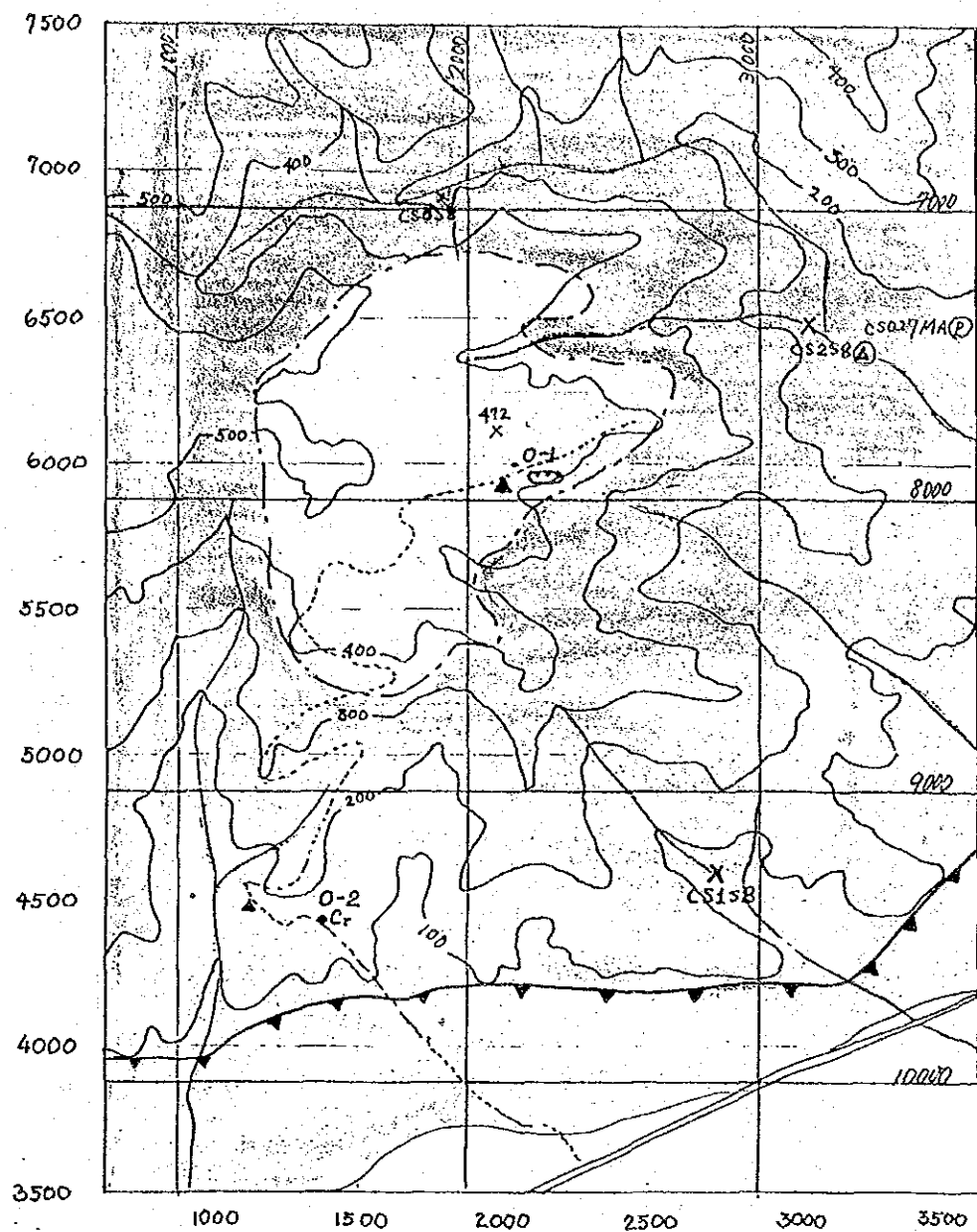
Columnar Section of Test pit





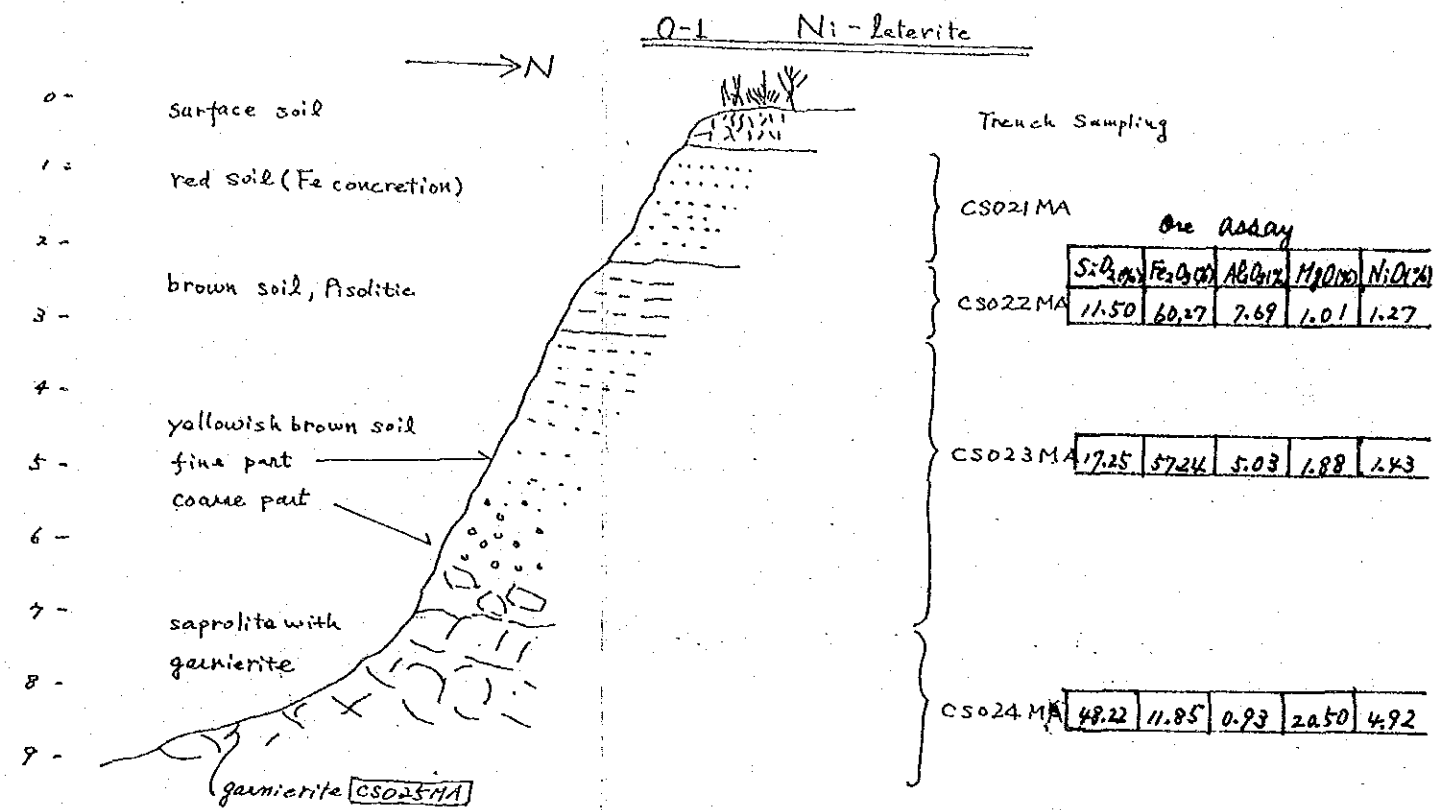
OLYMPIC MINE

QUAD. NO. 2641-1



- SCALE 1:25,000
- 0 500 1000 m.
- == Highway
 - Mining Road
 - ⊙ Bench Cut
 - Observation Test Pit
 - Chromite Mineralization ⊕ float
 - ▲ Ore Stock
 - X Heavy Mineral Sample
 - Basalt
 - ▨ Harzburgite
 - ▼ Thurst
 - Ni-Laterite Area

Olympic Showing (No.8) Route Map & Sketch



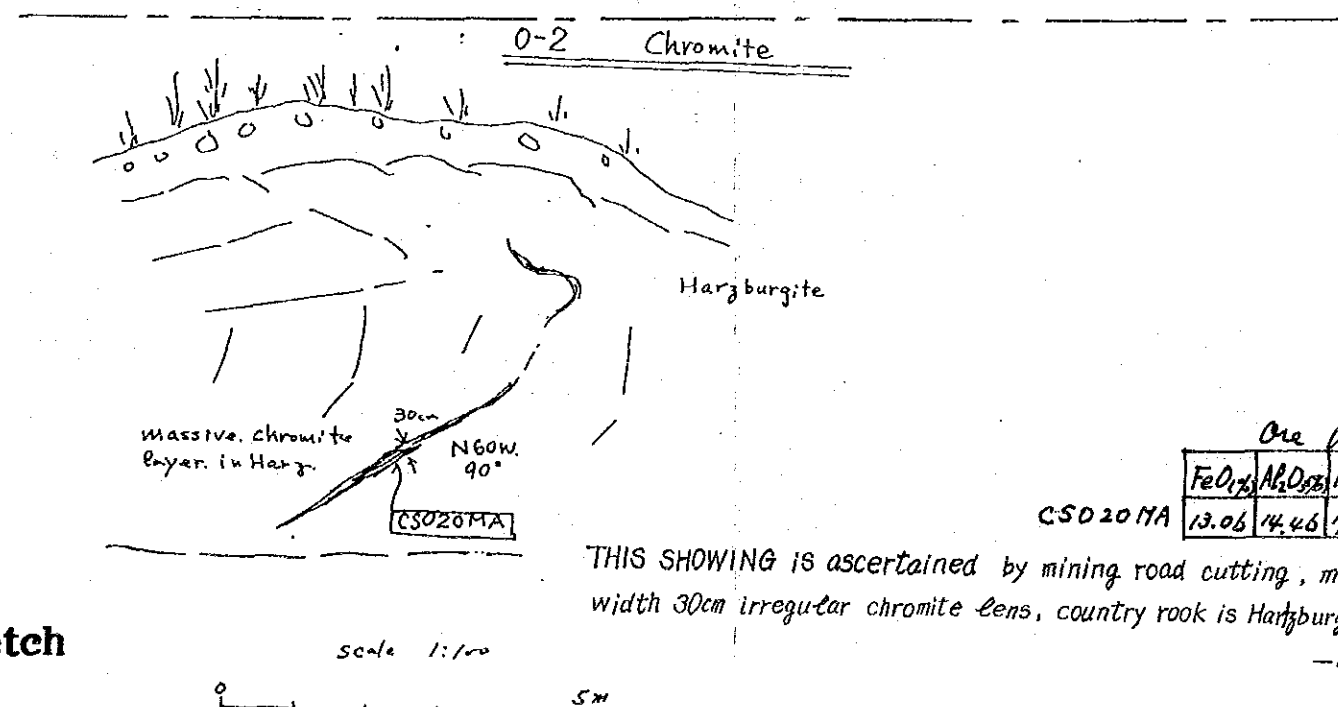
original rock: Harzburgite.

scale 1:100

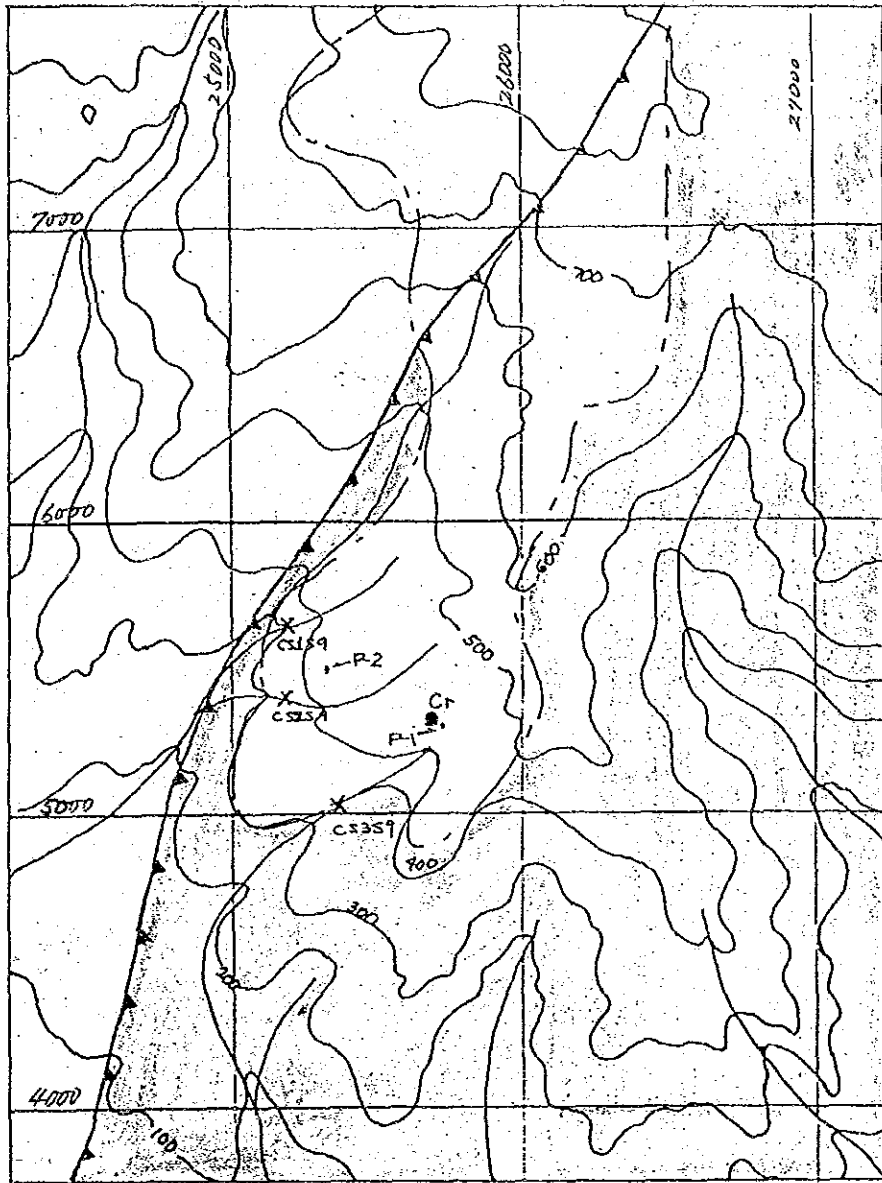


Section of Bench cut.

Scale of Bench Cut is 200m E-W, 50m N-S. at 100m North of this Bench, one test pit carried out, at that point, Saprolite zone extend to -27m level.



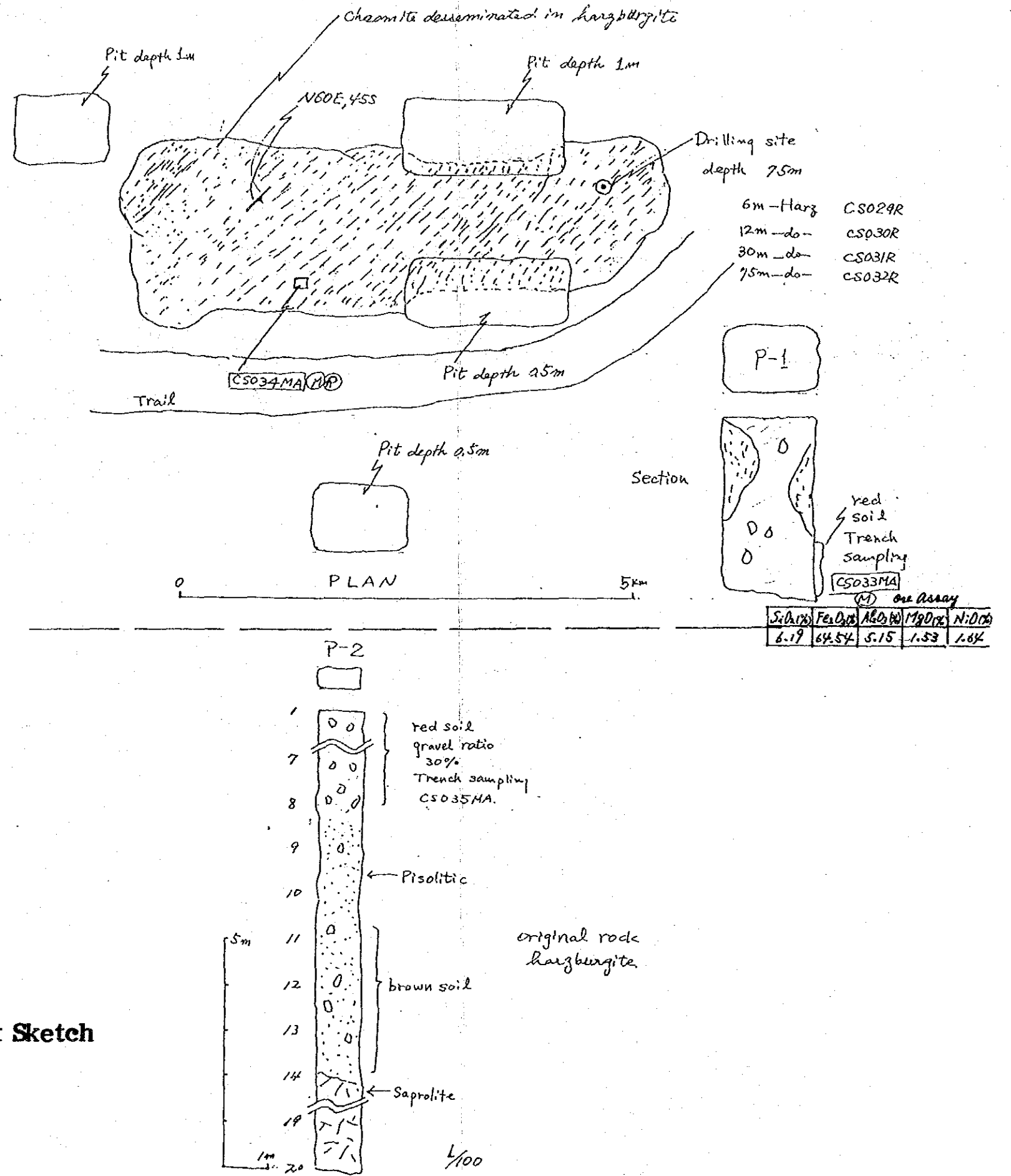
Map No. 2647-IT

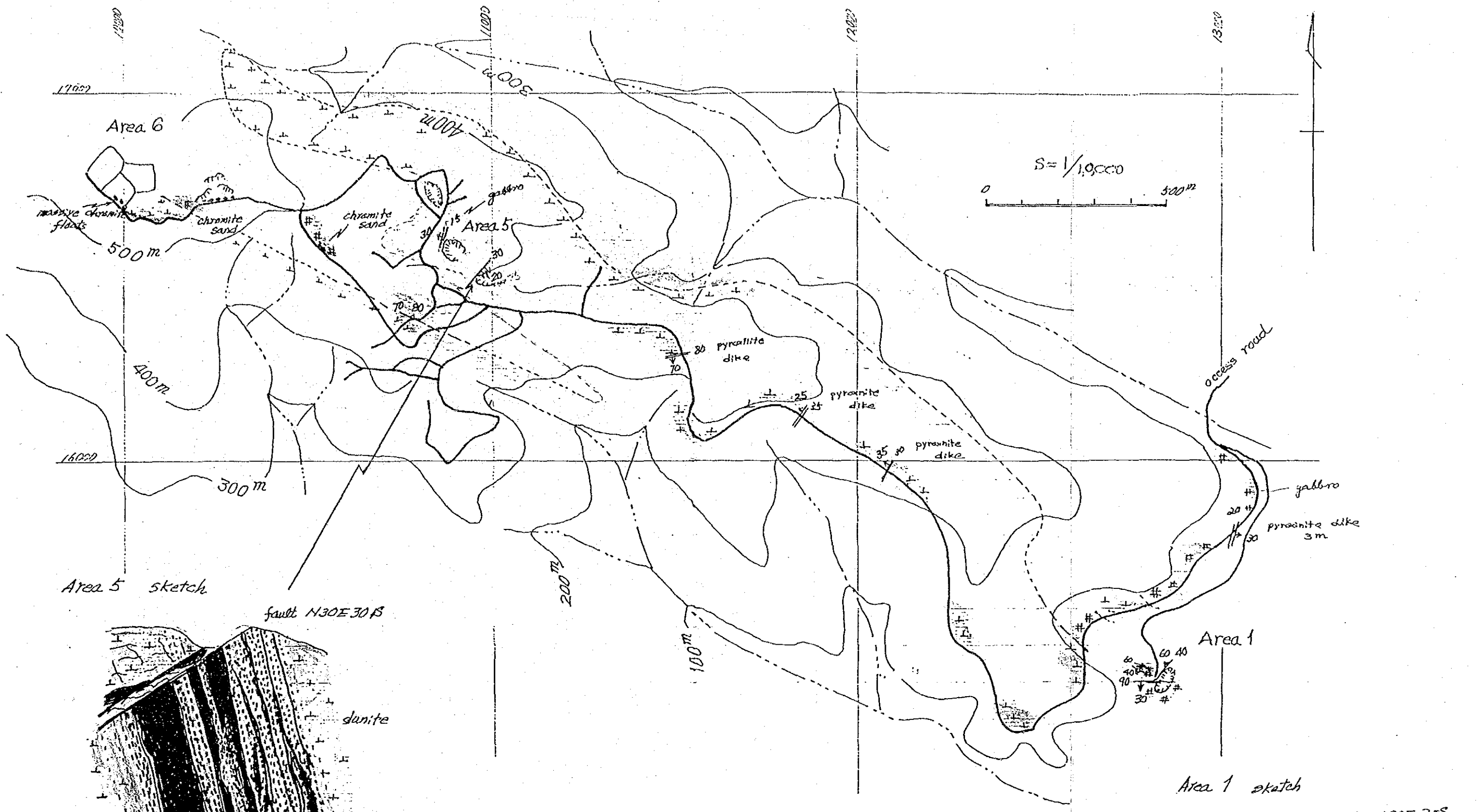


Ni-Laterite Area

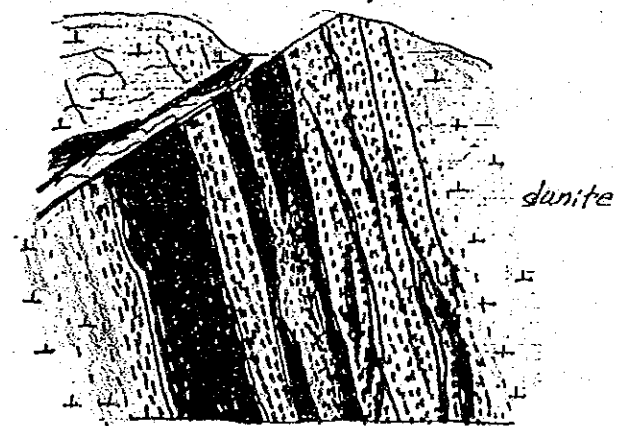
- Gabbro
- Harzburgite
- Thrust

Santa Monica Showing (No.9) Route Map & Sketch





Area 5 sketch



fault N30E30S

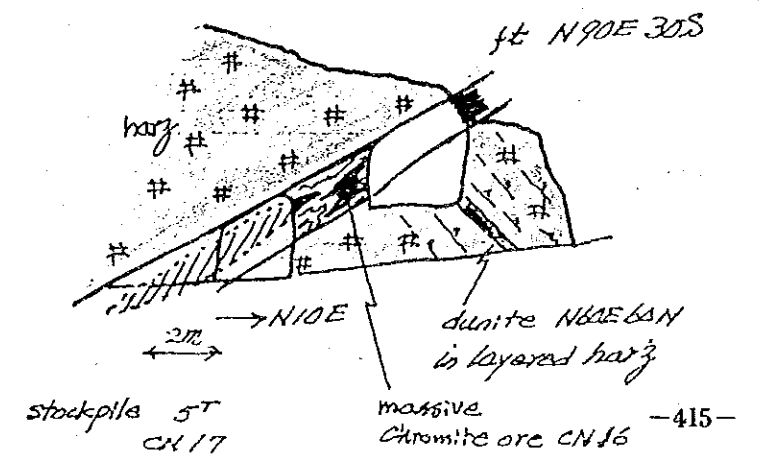
dunite

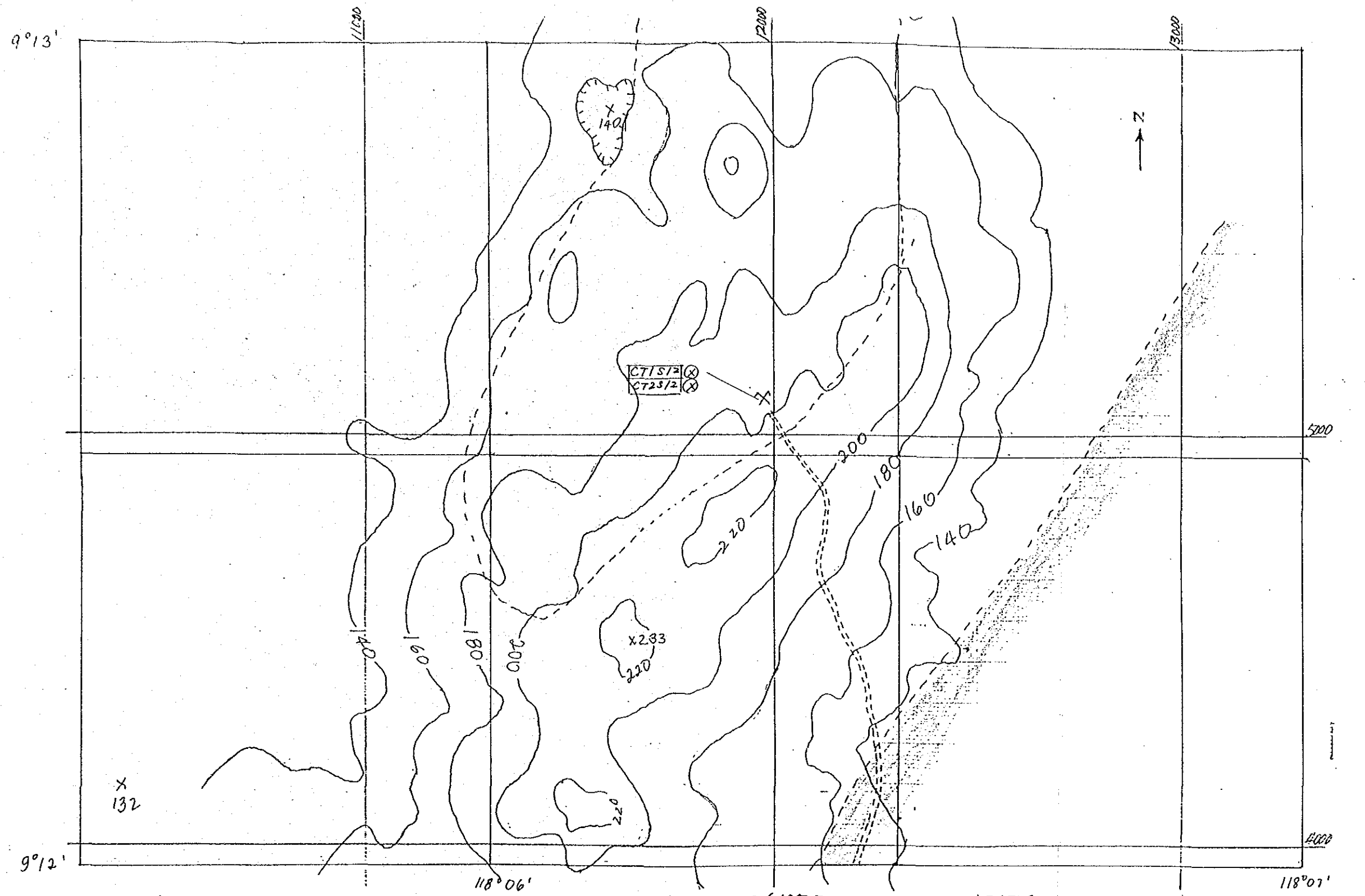
2m

	N20E					
	FeO (%)	SiO ₂ (%)	Al ₂ O ₃ (%)	Cr ₂ O ₃ (%)	Cr ₂ S ₃ (%)	ore Assay
A massive chromite CN13 (W: 2.0m)	13.60	4.80	19.62	0.18	44.81	
B disseminated chromite in serpentinized dunite CN14 (W: 1.0m) N40W 75-N						

Trident Showing (No.11) Route Map & Sketch

Area 1 sketch





SCALE 1:10,000

LEGEND:

- Limestone
- Interbedded sedimentary rocks
- Sheared serpentinite
- Lithologic boundaries
- Trail
- X - Investigated area (Guano Phosphate Ore)

Abuabu Showing (No.12) Route Map & Sketch

Appendix 13 Data Sheet of Mineral Prospects

Appendix

Figure 3. Data sheet for Mineral Prospects(I)

Survey area	Palawan III (Puerto)		Mineral Prospects No.			Atlas Mine No.1	
	1/50,000 Topographic map No.	Bobosawen 2648I	X Coordinates	Y* Coordinates	14950	Altitud	* (m)
* Locality				17,500		80	
* Survey date	Feb. 4 1986		Surveier *	Shida, Nozawa et.al.			
Compiling date (file No.)			Owner of mining right	Atlas Mining Co. (ACMDC)			
Metallogenic province			Type of Ore Deposits	Float Chromite Deposit	Country rock of Ore Deposits	Laterite Soil	
One mineral Assemblage	by field observation.*	Chromite				by x-Ray diffraction	
Gangue mineral Assemblage	by field observation.*	Serpentine, Chlorite				by x-Ray diffraction	
Alteration mineral Assemblage	by field observation*	Serpentinization and Chloritization				by x-Ray diffraction	
Combination of country rocks		Ultramafic Rocks					

Figure 3, Data sheet for Mineral Prospects (II)

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

Mining operation started at Dec. 27, '85 and now carrying on.
Mined ores are hauled to Maindang stock yard along beach side by back pack or carabaos.
Up to Jan. 29, '86, 1,147 tons of chromite ore were hauled to Quezon by boat.

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan III (Puerto)		Mineral Prospects No.			Richman Mine NO. 2	
	1/50,000 Topographic map No.	Bobosawen 2648I	X Coordinates	Y Coordinates	Altitud	* (m)	
Locality			23,550	13600	650		
Survey date	Feb.5, '86	Surveier	Shida, Nozawa et. al.				
Compiling data (file No.)		Owner of mining right	Rich Mineral Resources				
Metallogenic province		Type of Ore Deposits	Massive chromite Deposit	Country rock of Ore Deposits	Peridotite		
One mineral Assemblage	by field observation.*	Chromite	by micro-scope				
Cangue mineral Assemblage	by field observation.*	Serpentine chlorite	by x-Ray diffraction				
Alternation mineral Assemblage	by field observation.*	Serpentinization and Chloritization	by x-Ray diffraction				
Combination of country rocks	* Ultramafic Rocks						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Method		Other Method		
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	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	C	D	E
Evaluation for Ore Prospects	Sumnerized Evaluation	"	"	"	"	"
		A	B	C	D	E
<p>Chromite ores spotted Leopard type. Seems to be intimately related with intrusive diabase dyke.</p>						
<p>Other specially Mentions</p>						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan III (Puerto)		Mineral Prospects No.		Boyo Mine No.3	
* Locality	1/50,000 Topographic map No.	Totobaen 2649II	X * Coordinates	26,000	Y * Coordinates	2,750 Altitud 320 (m) *
* Survey date	Feb. 17, '86.		Surveyer *	Shida, Nozawa et, al.		
Compiling data (file No.)	CAMUS Engineering Co. (not declared)					
Metallogenic province			Owner of mining right	Massive Chromite Deposit		Country rock of Ore Deposits * Peridotite and gabbro
One mineral Assemblage	by field observation.* Chromite		Type of Ore Deposits	by x-Ray diffraction		
Cangue mineral Assemblage	by field observation.* Serpentine Chlorite			by micro-scope		
Alternation mineral Assemblage	by field observation.* Serpentinization and Chloritization			by x-Ray diffraction		
Composition of country rocks *	Ultramafic Rocks					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Method	Other Method							
Investigation of Fossils	Radiolaria									
	Nanno-Plankton									
	Other Fossils									
Ore Prospects Evaluation for	Spot Investigation	A	Necessity of follow up survey is highest	B	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	A	"	B	"	C	"	D	"	E
	Summarized Evaluation	A	"	B	"	C	"	D	"	E
<p>Mined from Jan. 10 to 25, '86 by 7 workers.</p> <p>Open pit were collapsed by land slide and ore not observed on the pit wall.</p> <p>Chromite ore stocked about 25 tons.</p> <p>Not declared, according to the information from BMG Puerto Office.</p>										
Other specially Mentions										

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects			No.1 Romarac		
	1/50,000 Topographic map No.	N-1 2648I C-1 2648III C-2 2648II	X Coordinates	Y Coordinates	Altitud	1,200 17,200 18,300	105 180 320	(m)
Locality								
Survey date	Feb. 16, '86.			H. Takahashi U. Palaganas				
Geopling Gate (file No.)			Owner of mining right					
Metallogenic province			Type of Ore Deposits	N-1 Ni-Laterite C-1 Chromite C-2 Chromite	Country rock of Ore Deposits	Harzburgite Dunite in Harzburgite mass		
One mineral Assemblage	by field observation.* N-1 Nickel laterite C-1 Chromite C-2			by micro-scope		by x-Ray diffraction		
Gangue mineral Assemblage	by field observation.* N-1 C-1, C-2, Olivine			by micro-scope		by x-Ray diffraction		
Alteration mineral Assemblage	by field observation.* N-1 Lateritization C-1, C-2, Serpenitization			by micro-scope		by x-Ray diffraction		
Consination of country rocks						C-1, C-2, Dunite and Harzburgite		

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Method	Other Method	Nanno-Plankton			Other Fossils	Follow up survey is
Investigation of Fossils	Radiometric		Necessity of follow up survey is high	Necessity of follow up survey is C	Possibility of follow up survey is reliable	Necessity of follow up survey is low	needless
Evaluation for Ore Prospects	Spot Investigation	A	B	C	D	E	Follow up survey is needless
	Results of Geochemical & other analysis	A	B	C	D	E	Follow up survey is needless
	Summerized Evaluation	A	B	C	D	E	Follow up survey is needless
Other specially Mentions	<p>Laterite in this area is laterally wide with a maximum thickness of about 3 meters in several test pits. No saprolite was found.</p> <p>C-1, The chromite deposit is located directly 2 km east of Barangay Catuagan and is found midway along the Romarao Creek. The chromite body is exposed by site-cutting, and observed within an intensely sheared dunite generally trending N45°E within a harzburgite mass. The chromite body is lensoidal that pinches at its ends. It ranges about 60 cm to 1.5 m thick and about 6 m in length. The chromite is soft and friable and is densely disseminated to massive type.</p> <p>C-2, The chromite deposited isolated directly 1.5 km NE of C-1, it occurs as boulders. Also it was observed that small outcrops of emplaced chromite bodies overlain by laterite soil, having a general NE trend dipping 40° NW. The chromite is of sparsely to densely disseminated and massive type, usually with garnierite. The emplaced deposits is hosted by serpentized dunite.</p>						

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.		No.2 Berong		
	1/50,000 Topographic map No.	N-2 2648III N-3 2648II C-3 2648II	X * Coordinates	Y * Coordinates	25,500 550 2,400	9,100 13,300 11,400	Altitud (m) 280 120 540
Survey date	Feb. 14, '86		* Surveier		H.Takahashi U.Palaganas		
Compiling data (file No.)	Owner of mining right						
Metallogenic province	Type of Ore Deposits		N- , Harzburgite C-3 Chromite		Country rock of Ore Deposits N- , Harzburgite C-3 Dunite		
One mineral Assemblage	by field observation* N-2,3, field soil/ saprolite with garnierite		by micro-scope		by x-Ray diffraction		
Gangue mineral Assemblage	by field observation* C-3 Olivine		by micro-scope		by x-Ray diffraction		
Alteration mineral Assemblage	by field observation* C-3 Serpentine		by micro-scope		by x-Ray diffraction		
Concination of country rocks	*						

Figure 3. Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Method	Other Method	Radiolaria			Nanno-Plankton		Other Fossils	Other Method
Investigation of Fossils	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	
Spot Investigation	A								
Results of Geochemical & other analysis	A	"	B	"	C	"	D	E	
Summarized Evaluation	A	"	B	"	C	"	D	E	
Ore Prospects for Evaluation for									
Other specially Mentions	<p>Laterite in 1-2 area is exposed a long benched side cut laterally about 160 m and height of about 100 m. Both laterite and saprolite in this area, where laterite has a maximum thickness of about 3 m while the saprolite is 5m plus. Garnierite is extensively present in the saprolite horizon.</p> <p>Laterite in 4-3 area is located near Tagbolante River. A single test pit was observed and laterite has maximum thickness of about 4m. Although laterite is present in the area, this test pit might also been used to determine chromite sands associated in this laterite.</p> <p>The deposit of C-3 is located at the upper stream of a tributary of Berong River. It is exposed along about 5m down up in the about one meter of moderately sheared dunite in a Harzburgite mass. the chromite body, having a general trend of N 70° W, 55 NS, is of desely disseminated type.</p>								

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.		No. 3 Ibatong, Aramaywan		
	1/50,000 Topographic map No.	2648III	X * Coordinates	9°13'00 9°25'00	Y * Coordinates	118°10' 118°22'	Altitud 450-470 (m) *
Locality *	A. Matos						
Survey date	Feb. 15, '86.		Surveyor *		A. Matos		
Geological data (file No.)			Owner of mining right		Soriano Corp.		
Metallogenic province			Type of Ore Deposits		Ni-Laterite		
					Country rock of Ore Deposits * Harzburgite/Dunite.		
One mineral assemblage	by field observation.*		by micro-scope		by x-Ray diffraction		
	Ni-Fe rich Red soil						
Canga mineral assemblage	by field observation.*		by micro-scope		by x-Ray diffraction		
Alteration mineral assemblage	by field observation.*		by micro-scope		by x-Ray diffraction		
Consination of country rocks *	Harzburgite, Dunite, Pyroxenite.						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Method	Other Method						
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	Necessity of follow up survey is low	Possibility of follow up survey is E	Necessity of follow up survey is E	Follow up survey is needless	
Spot Investigation	A	B	C	D	E	E		
Results of Geochemical & other analysis	A	B	C	D	"	E	"	
Summarized Evaluation	A	B	C	D	"	E	"	
Evaluation for Ore Prospects								
Other specially Mentions								

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects		No. 4 Malasgao Prospect	
	1/50,000 Topographic map No.	2648II	X * Coordinates	Y * Coordinates	Altitud	320 (m) *
Survey date	Feb. 3, '86.		Survoyer *		A. Matos	
Sampling data (file No.)			Owner of mining right		Navairo & Ceruanan Surveying Co.	
Metallogenic province			Type of Ore Deposits		Country rock of Ore Deposits Harzburgite	
One mineral Assemblage	by field observation.* Fe-Ni rich red soil		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.*		by micro-scope		by x-Ray diffraction	
Concination of country rocks					Harzburgite and minor Pyroxinite.*	

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Method	Other Method										
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	Necessity of follow up survey is low	Other Fossils	Follow up survey is needless					
									A	B	C	D	E
									Investigation	Results of Geochemical & other analysis	Sumnerized Evaluation	A	B
Evaluation for Ore Prospects		A	B	C	D	E							
Other specially Mentions													

Appendix

figure 3. Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.		No.5 Bethlehem	
	Topographic map No.	X Coordinates	Y Coordinates	Altitud	410 (m)	
Locality *	1/50,000	2467I	6,750	15,550	410 (m)	
Survey date *	Jan. 29, '86.	Surveier *	H. Takahashi			
Compiling date (file No.)		Owner of mining right				
Metallogenic province		Type of Ore Deposits *	Ni-Laterite/ Chromite	Country rock of Ore Deposits *	Harzburgite/ Dunitite	
One mineral Assemblage	by field observation.*		by micro-scope	by x-Ray diffraction		
	Ni-Fe rich red soil Chromite disseminated in dunitite.					
Cangue mineral Assemblage	by field observation.*		by micro-scope	by x-Ray diffraction		
Alternation mineral Assemblage	by field observation*		by micro-scope	by x-Ray diffraction		
Combination of country rocks *	Harzburgite / Dunitite					

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Method	Other Method	Investigation of Fossils					
Investigation of Fossils	Radioraria	Nanno-Plankton	Other Fossils	Necessity of follow up survey is		Possibility of follow up survey is		
	A Necessity of follow up survey is highest	B Necessity of follow up survey is high	C Necessity of follow up survey is low	D Possibility of follow up survey is reliable	E Possibility of follow up survey is need less	Follow up survey is		
Spot Investigation	A	B	C	D	E	Follow up survey is need less		
Results of Geochemical & other analysis	A	B	C	D	E	Follow up survey is need less		
Summarized Evaluation	A	B	C	D	E	Follow up survey is need less		
Evaluation for Ore Prospects	A	B	C	D	E	Follow up survey is need less		
Other specially Mentions	<p>This laterite area covers 7 km² or more, occurring with in an altitude of 200 m to 600 m. topography is the vicinity is ragged and might have implication to the thickness of the laterite which is to a maximum of 5 m. Chromite mineralization is present in this area, occurring within the dunite. The dunite body which host chromite mineralization which is assumed to have a continuation of the dunite body in Trident mine area.</p>							

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.		No.6 Bethlehem West	
Locality *	1/50,000 Topographic map No.	2647I	X * Coordinates	2,550	Y * Coordinates	13800 Altitud 400 (m) *
Survey date *			Surveyer *	H. Takahashi		
Geopling data (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits *	Ni-Laterite	Country rock of Ore Deposits *	Harzburgite
One mineral Assemblage	by field observation.*	Red soil		by x-Ray diffraction		
Gangue mineral Assemblage	by field observation.*			by micro-scope		
Alteration mineral Assemblage	by field observation.*			by x-Ray diffraction		
Combination of * country rocks				Harzburgite		

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Method	Other Method				
Investigation of Fossils		Radiolaria	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 low 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	"	"	"	"	"
	Summarized Evaluation	A	"	"	"	"	"
Other specially Mentions		<p>This area is located between the Bethlehem (No.5) and Olympic (M-8) area. Topography is also rugged and the maximum thickness of laterite is about 5m along test pit wall. Although laterite exposure in the area is not so widespread, still it is encouraging being between two laterite potential areas.</p>					

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.		NO. 8 Olympic Mine	
	1/50,000 Topographic map No.	2647I	X* Coordinates	Y* Coordinates	5,900	Altitud 400 (m)*
Locality*						
Survey date*	Feb. 2nd, '86		Surveier*	H. Takahashi		
Compiling data (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits	Ni-laterite / saprolite Chromite	country rock of Ore Deposits*	Harzburgite
One mineral Assemblage	by field observation*	Ni-laterite/ saprolite/ garnielite. Chromite.		by micro-scope		
Congue mineral Assemblage	by field observation*			by micro-scope		by x-Ray diffraction
Alteration mineral Assemblage	by field observation*			by micro-scope		by x-Ray diffraction
Combination of* country rocks		Harzburgite				

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Method	Other Method	
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	Necessity of follow up survey is low
	Results of Geochemical & other analysis	A	B	C
	Summarized Evaluation	A	B	C
Other specially Mentions		<p>Olympic Mine area- Laterite in this area occurs within an area of more or less 3 km². Both laterite and saprolite are present, laterite has a maximum thickness of 4 m thin followed by saprolite having a zone of about 30m below. The presence of abundant garnierite in the saprolite may result to high Nickel values.</p> <p>Within the surroundings of the area of it is possible laterite and saprolite may be present promising.</p>		

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.		No.9 Santa Monica		
* Locality	1/50,000 Topographic map No.	2647IV	X * Coordinates	5,500	Y * Coordinates	25,400 Altitud	400 (m) *
* Survey site	Feb. 4. '86.		Surveier *	H. Takahashi			
Compiling data (file No.)			Owner of mining right				
Metallogenic province			Type of Ore Deposits	Ni- laterite Chromite disseminatoin	Country rock of Ore Deposits *	Harzburgite	
One mineral assemblage	by field observation.* Red soil Chromite			by micro-scope			
Gangue mineral Assemblage	by field observation.*			by micro-scope	by x-Ray diffraction		
Alteration mineral Assemblage	by field observation*			by micro-scope	by x-Ray diffraction		
Combination of country rocks	* Harzburgite						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination		K- Ar Method	Other Method	
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
Spot Investigation	A	B	C	D
Results of Geochemical & other analysis	A	B	C	D
Summarized Evaluation	A	B	C	D
Follow up survey is		Follow up survey is		Follow up survey is
E need less		E need less		E need less

The laterite area is located about 5km west of Olympic Mine Area (NO.8), covering an area of almost 2 km²; test pit that were observed show that the laterite zone is 15 km and a lower saprolite zone of almost 15m; outcrop of chromite deposits were observed within the area. The chromite mineralized zone is about 6m and is densely disseminated chromite hosted by harzburgite. Small irregular chromite bodies in the dunite were also observed.

Other specially Mentions

Appendix

Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects		No. 11 Trident Mine	
	1/50,000 Topographic map No.	2647I	X * Coordinates	Y * Coordinates	16,000 Altitud	420 (m) *
Locality *						
Survey date	Feb. 20, '86.		Surveier *	H. Fuchimoto		
Geological (file No.)			Owner of mining right			
Metallogenic province			Type of Ore Deposits	Layered chromite	Country rock of Ore Deposits *	Dunite
One mineral assemblage	by field observation.*	Chromite				by x-Ray diffraction
Gangue mineral assemblage	by field observation.*	Serpentine, calcite				by x-Ray diffraction
Alteration mineral assemblage	by field observation*	Serpentine				by x-Ray diffraction
Combination of country rocks *						

Figure 3, Data sheet for Mineral Prospects (II)

Age Determination	K- Ar Method	Other Method	Other Fossils		
Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils	Follow up survey is	
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	Follow up survey is needless
Results of Geochemical & other analysis	A	B	C	D	E
Summarized Evaluation	"	"	C	D	E
Other specially Mentions	"	"	C	D	E

Area-1; Massive chromite in sheared zone. Pit is filled with water.
 Area-5; In the lowest pit a massive and disseminated chromite (w:9m) ore body is cut by fault (N30 E. 30° S). In other two pits ore cannot be seen.
 Area-6; To look for the origin of chromite floats, two areas were bulldozed but no emplaced outcrops. Chromite sand associated in laterite. (thickness about 5m) was once collected.
 According the guide who was a foreman before, some drill holes hit chromite bodies but data collection seems to be very difficult.

Appendix

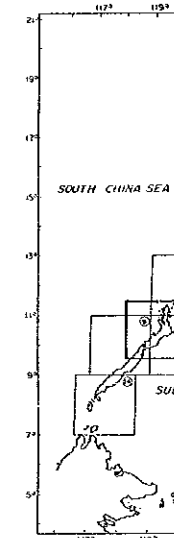
Figure 3, Data sheet for Mineral Prospects(I)

Survey area	Palawan IV (Narra)		Mineral Prospects No.:		No. 12 Abu-Abu Rock Phosphate Prospect		
Locality *	1/50,000 Topographic map No.	2647IV	X * Coordinates	118°06'24"	Y * Coordinates	9°12' 57" Altitud	195 (m) *
Survey date *	Feb.17, '86		Surveyer *	A. Matos L. Morales A. Cacdac			
Compiling data (file No.)			Owner of mining right *				
Metallogenic province			Type of Ore Deposits *	Carbonate hosted guano-derived phosphatic deposits		Country rock of Ore Deposits *	Limestone
One mineral Assemblage	by field observation.*	Apatite (?)		by micro-scope		by x-Ray diffraction	
Congue mineral Assemblage	by field observation.*	Limestone		by micro-scope		by x-Ray diffraction	
Alternation mineral Assemblage	by field observation.*			by micro-scope		by x-Ray diffraction	
Combination of country rocks *	Limestone, interbedded sedimentary rocks.						

Figure 3, Data sheet for Mineral Prospects (II)

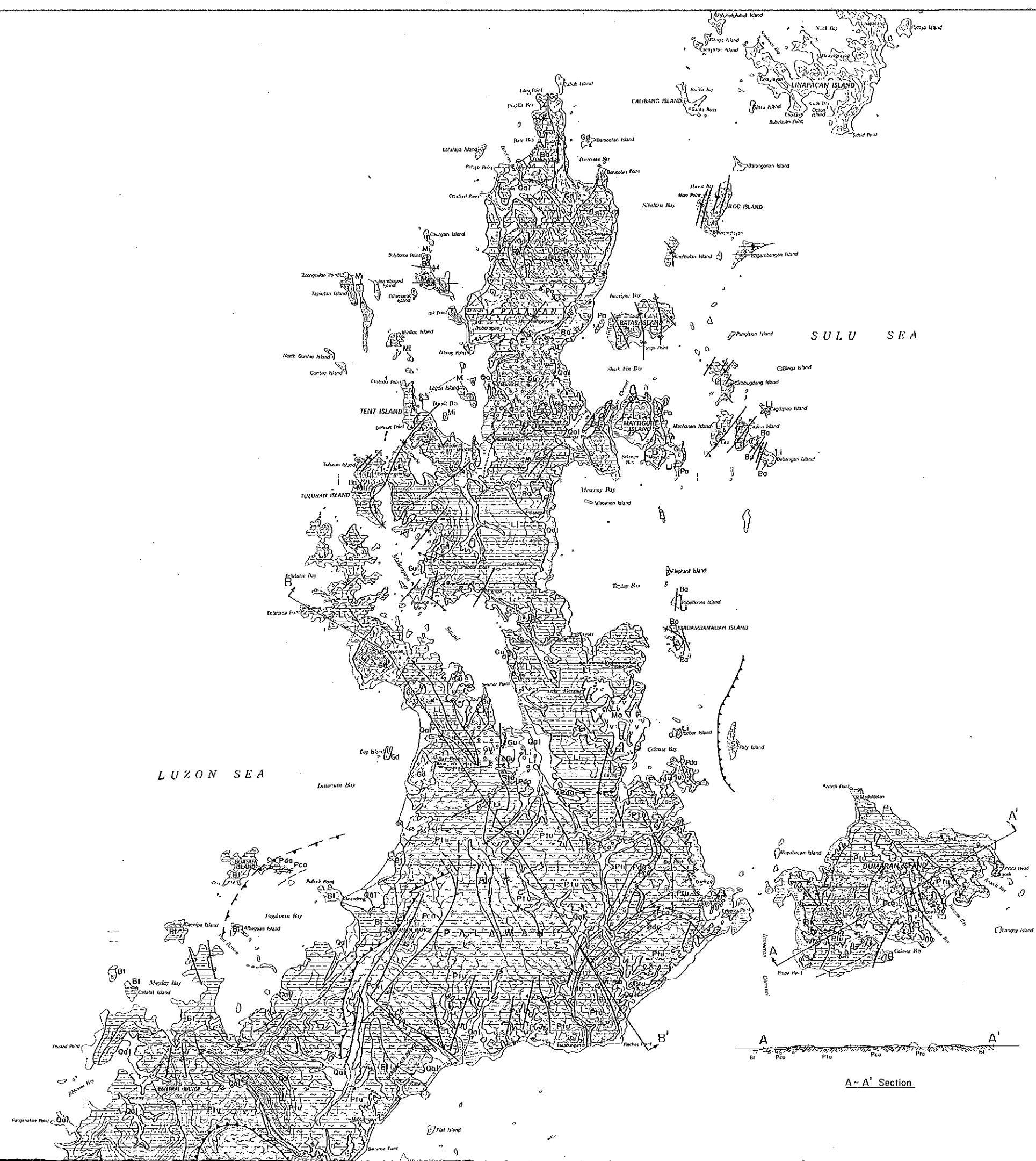
Age Determination		K-Ar Method		Other Method	
Evaluation for Ore Prospects	Investigation of Fossils	Radiolaria	Nanno-Plankton	Other Fossils	
	Spot Investigation	Necessity of follow up survey is highest	Necessity of follow up survey is high	Possibility of follow up survey is reliable	Necessity of follow up survey is low
	Results of Geochemical & other analysis Summarized Evaluation	A	B	C	D
		"	"	"	"
		"	"	"	"
<p>The area investigated was found to be in a collapsed limestone cave occurring as carbonate host Guano derived phosphate deposit veneering a high weathered limestone area. The area was found to have been applied for a quality permit by a certain Mr. Paredes but has not yet been approved at the time of the survey.</p>					
Other specially Mentions					

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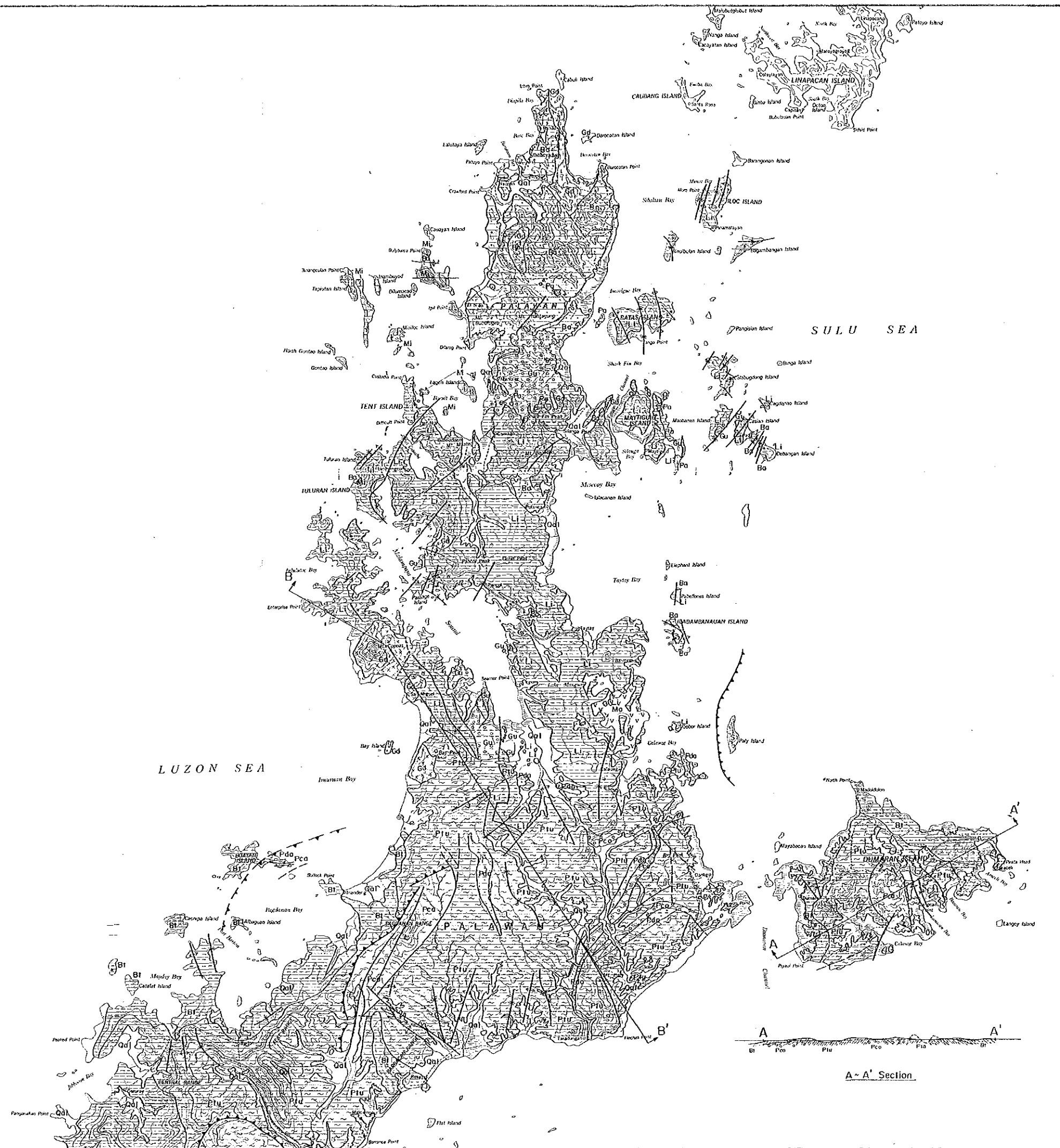
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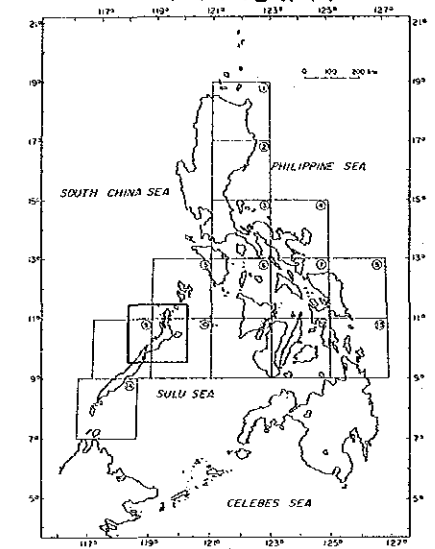
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	Oligocene		
	Eocene	Pa	Pobellian Is...
Cretaceous		S	Serpentine
Jurassic	Middle	Gu	Gunlo Form...
	Lower		
Triassic	Upper	Li	Limnancong...
	Middle		
Permian	Upper	Mi	Minitog For...
	Middle	Ba	Bacuit For...
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			Anticline

A-A' Section



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 16320
 金属鉱業事業団

フィリピン共和国
 鉱物資源基本図
 第3年次
 地質図及び断面図
 パラワン地域(1)



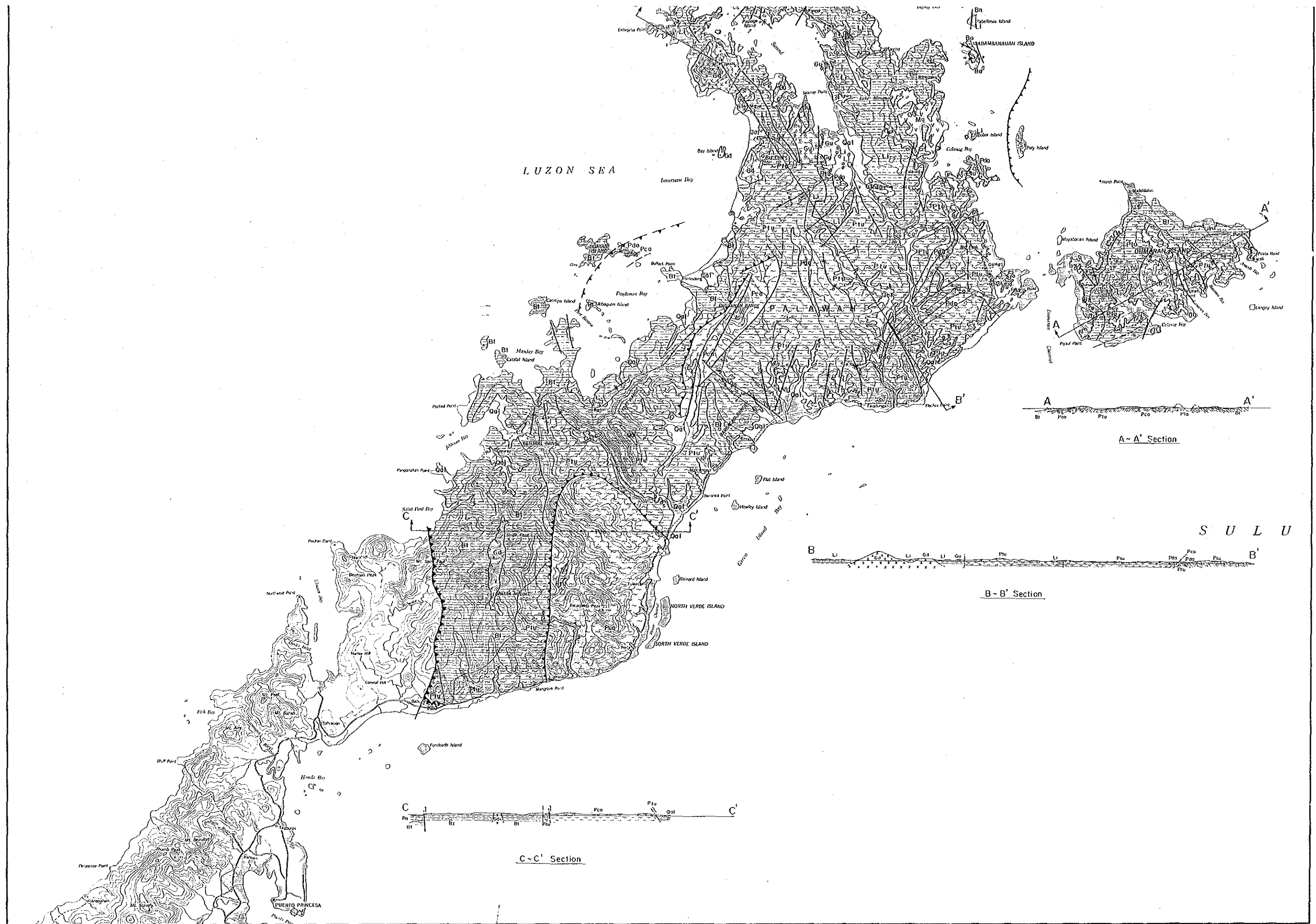
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 金属鉱業事業団

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LEGEND

Quaternary	Alluvium	Qal	Alluvium, Coral reef, Beach Sand
	Deluvium	Ma	Basaltic lava
Tertiary	Miocene	Sp	St Pauls Is
	Oligocene	Pp	Piedras Point Andesite
	Eocene	Gd	Capocs and Strip Peak Granite
Cretaceous		Bi	Babayon River Turbidites
		Gd	Daracton Granite
Jurassic	Middle	Gu	Guimbo Formation
	Lower		
Triassic	Upper	Li	Liminacong Formation
	Middle		
Permian	Upper	Mi	Minilog Formation
	Middle	Ba	Bacuil Formation
Pre Permian		Pca	Caramoy Schist
		Pda	Donleg Sandstone
		Ptu	Tumarong Semi Schist

	Fault
	Fault (assumed)
	Thrust
	Anticline Axis



Quaternary	Alluvium	Qol	Alluvium
	Dollivium	Qol	Basaltic
Tertiary	Miocene	Sp	St. Pauls
	Oligocene	Sp	
	Eocene	Pa	Pobellon I
Cretaceous		S	Serpentine
Jurassic	Middle	Gu	Guilo Farr
	Lower	Gu	
Triassic	Upper	Li	Liminanc
	Middle	Li	
Permian	Upper	Mi	Minitog F
	Middle	Mi	
Permian	Middle	Ba	Bocuit F
		Ba	
Pre Permian	Conceptio	Pco	Conceptio
	Phyllite	Pco	Phyllite
	Caramoy	Pca	Caramoy

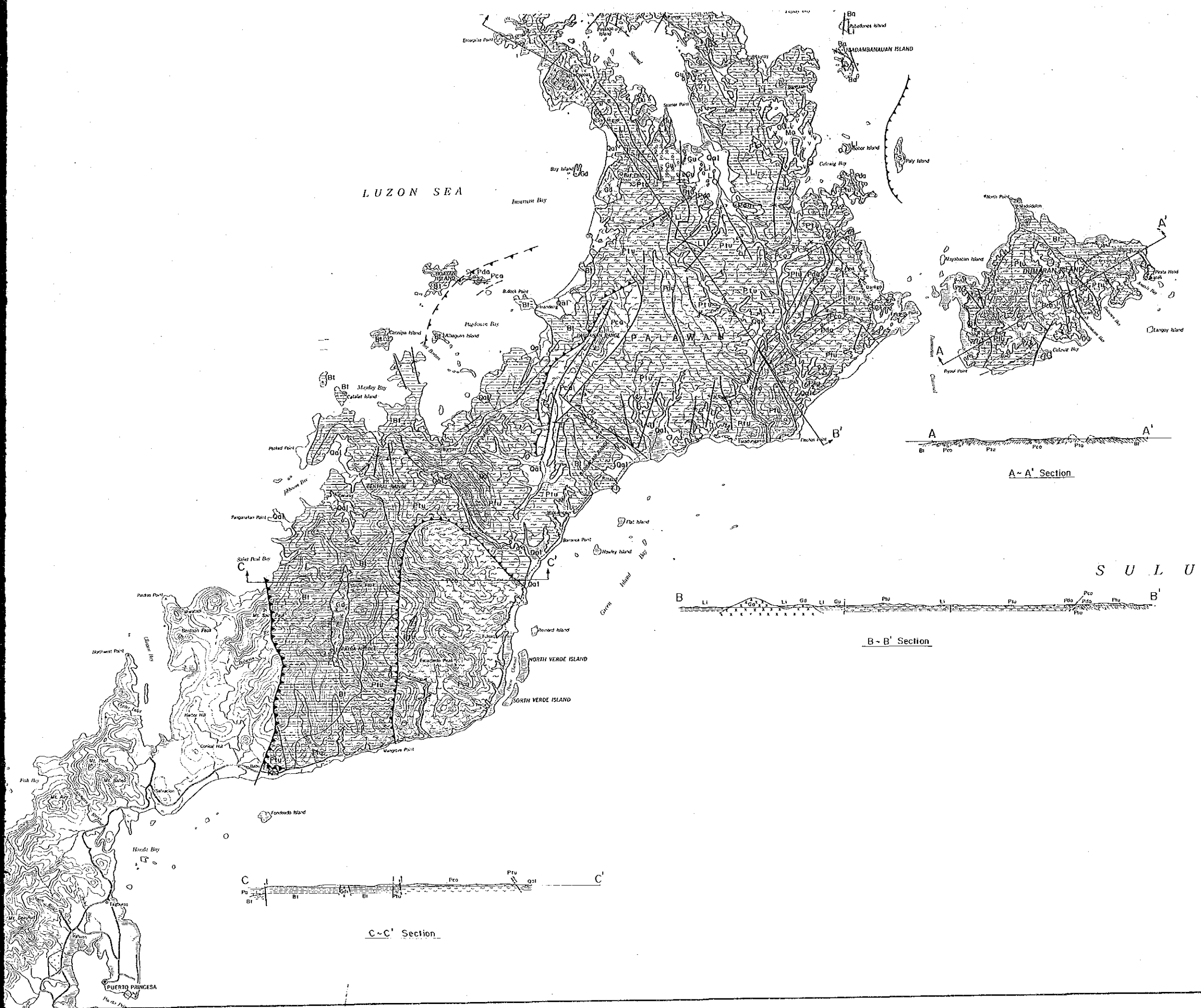
- Fault
- Fault (C)
- Thrust
- Anticline
- Syncline

A - A' Section

B - B' Section

C - C' Section

S U L U



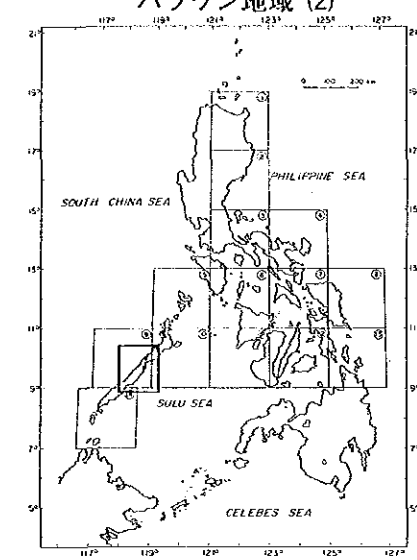
LEGEND

Quaternary	Alluvium	Qal	Alluvium, Coral reef, Beach Sand
	Deltivium	Ma	Basaltic lava
Tertiary	Miocene	ESD	St. Pauls Is
	Oligocene	ESD	Piodras Point Andesite
	Eocene	ESD	Capas and Strip Peak Granite
		Pabellon Is	Babuyan River Turbidites
Cretaceous		S	Serpentine gabbro
Jurassic	Middle	Gu	Guano Formation
	Lower	Gu	
Triassic	Upper	Li	Liminacong Formation
	Middle	Li	
Permian	Upper	Mi	Minilog Formation
	Middle	Mi	
Permian	Middle	Bg	Bacuit Formation
Pre Permian		Pco	Conception Pebbly Phyllite
		Pca	Caramay Schist
		Pda	Danteg Sandstone
		Ptu	Tunorlong Semi Schist

- Fault
- Fault (assumed)
- Thrust
- Anticline Axis
- Syncline Axis

フィリピン共和国
 鉱物資源基本図調
 第3年次
 地質図及び断面図
 バラワン地域(2)

付図 1-2
 16320
 国土地理院



昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1:250,000
 0 10 20 km

LEGEND

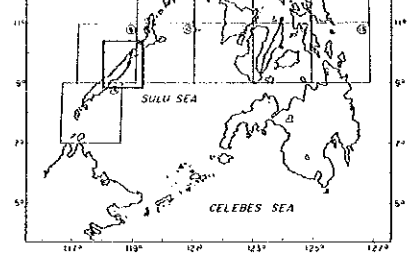
Quaternary	Qal	Alluvial	
Miocene	Nz	Sandstone and Mudstone	
	Nr	Limestone	
Eocene	Pd	Pabelion limestone	Bi Babuyan River Turbidites
	Tertiary	Kba	Basalt
Kdb		Diabase	
Kgb		Gabbro	
Kgd		Gabbro dyke	
Paleogene & Cretaceous	Kdu	Dunite	MMS Sagasa Point Tectonic Complex
	Kbz	Harzbergite	
	Kps	Sandstone and Shale ~Quartz Serfite Schist	
	Kpg	Basalt ~Green Schist	
	Pfu	Tumalong Semi Schist	
		Fault	
		Thrust	
		Anticline Axis	



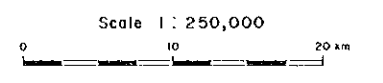
LUZON SEA

B-B' Section

A-A' Section



昭和62年2月
 国際協力事業団
 金属鉱業事業団

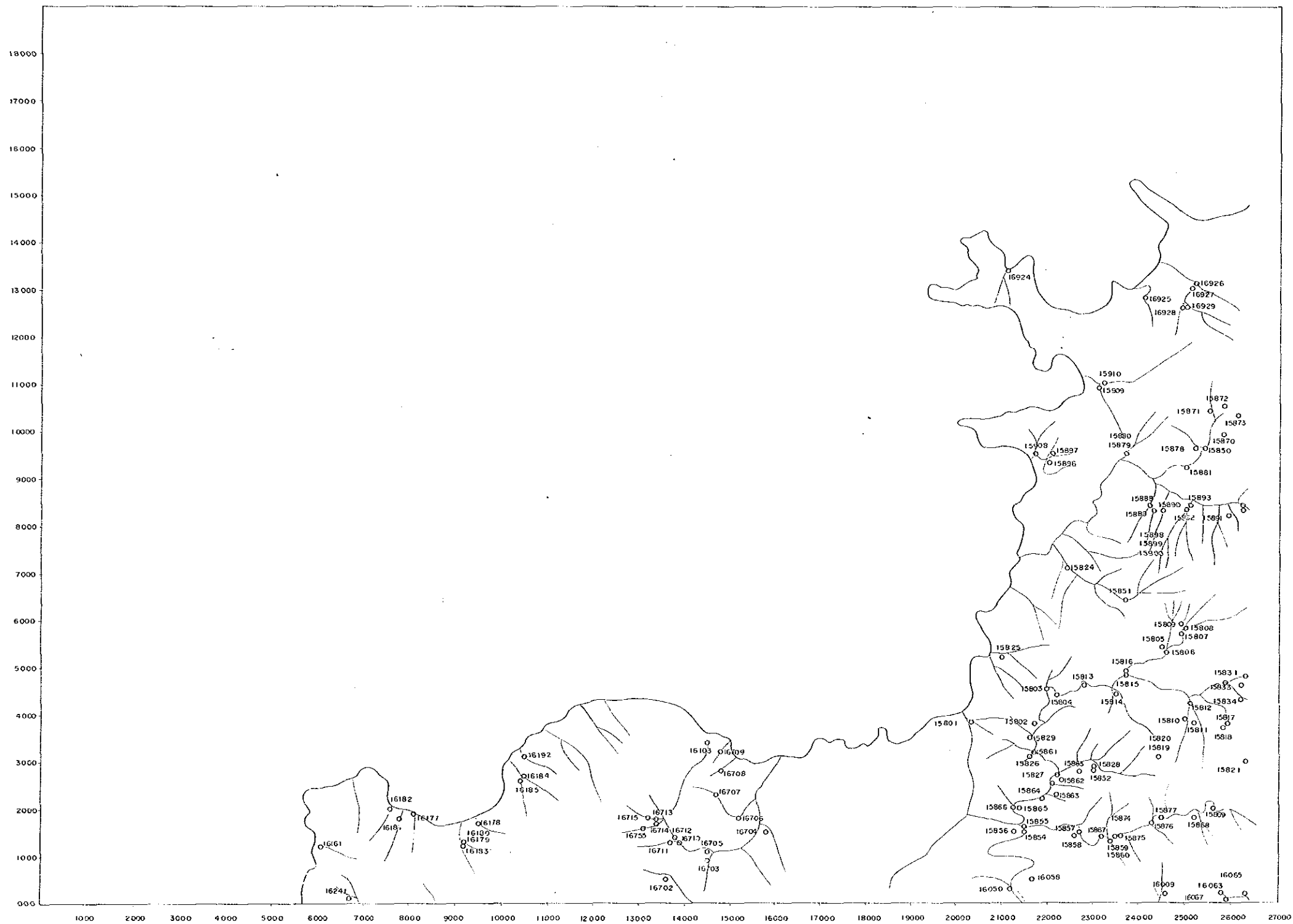


LEGEND

Quaternary	Qal	Alluvial	
Miocene	Ns	Sandstone and Mudstone	
	Nl	Limestone	
Eocene	Pa	Pabelion limestone	B1 Babuyan River Turbidites
Tertiary	Kba	Basalt	
	Kgb	Gabbro	
	Kgd	Gabbro dyke	
	Kdu	Dunite	MMS Sagasa Point Tectonic Complex
	Khz	Harzbergite	
Palaeogene & Cretaceous	Kgs	Sandstone and Shale ~ Quartz Sericite Schist	
	Kgp	Basalt ~ Green Schist	
	Ptu	Tumalong Sani Schist	
		Fault	
		Thrust	
		Anticline Axis	
		Syncline Axis	

CARURAY

SHEET NO 2750 I

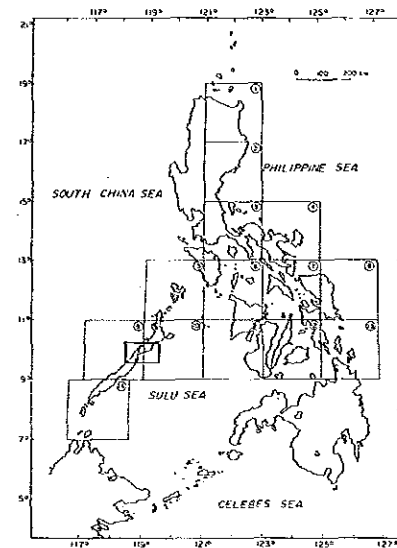


フィリピン共和国
 鉱物資源基本図調査

付図 2-1
 1:63,000
 国産資源調査

第3年次

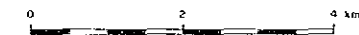
サンプル採取位置図 (UNDP地区)
 パラワン地域



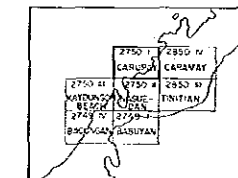
昭和62年2月

国際協力事業団
 金属鉱業事業団

Scale 1:50,000



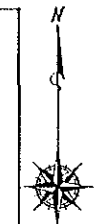
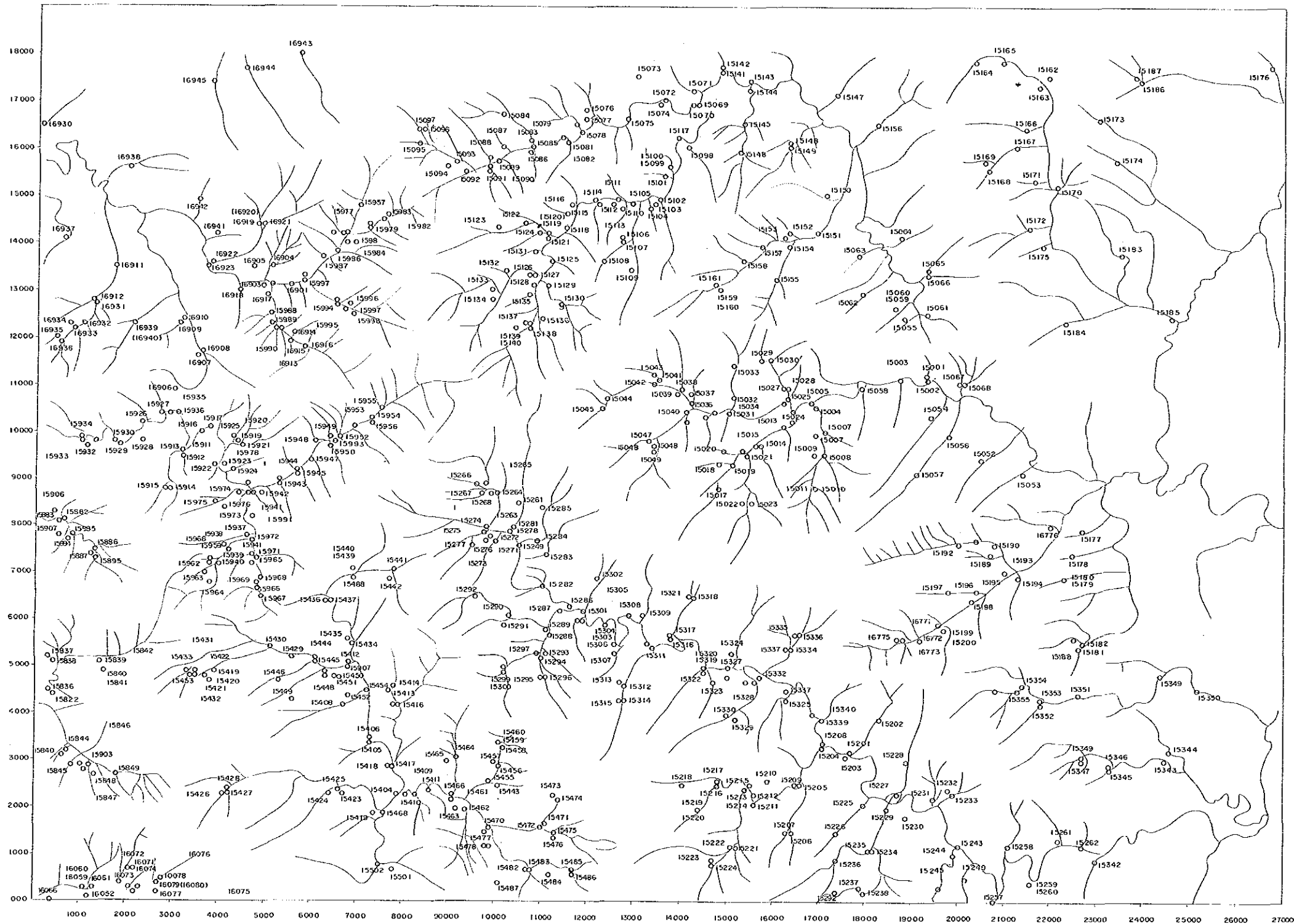
LEGEND



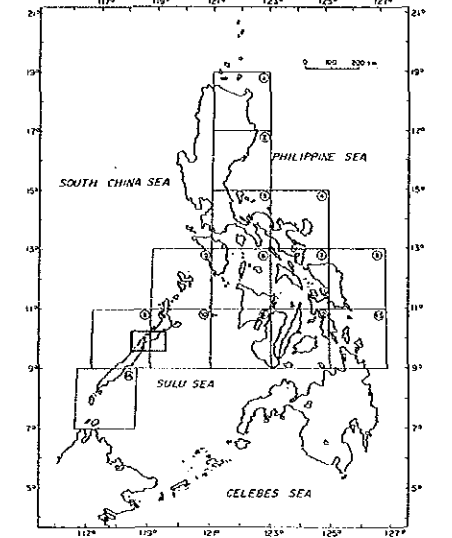
- : 河床堆積物・重鉱物 サンプル採取位置
- (70) : pH値
- 280 : 電気伝導度 (μS/cm)
- B-48 : 室内試験サンプル採取位置

CARAMAY

SHEET 2850IV

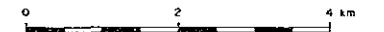


付図 2-2
 国際協力事業団
 16320
 調査
 フィリピン共和国
 鉱物資源基本図調
 第3年次
 サンプル採取位置図 (UNDP地区)
 パラワン地域

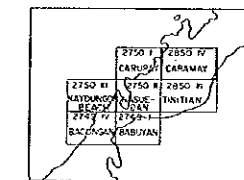


昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1:50,000



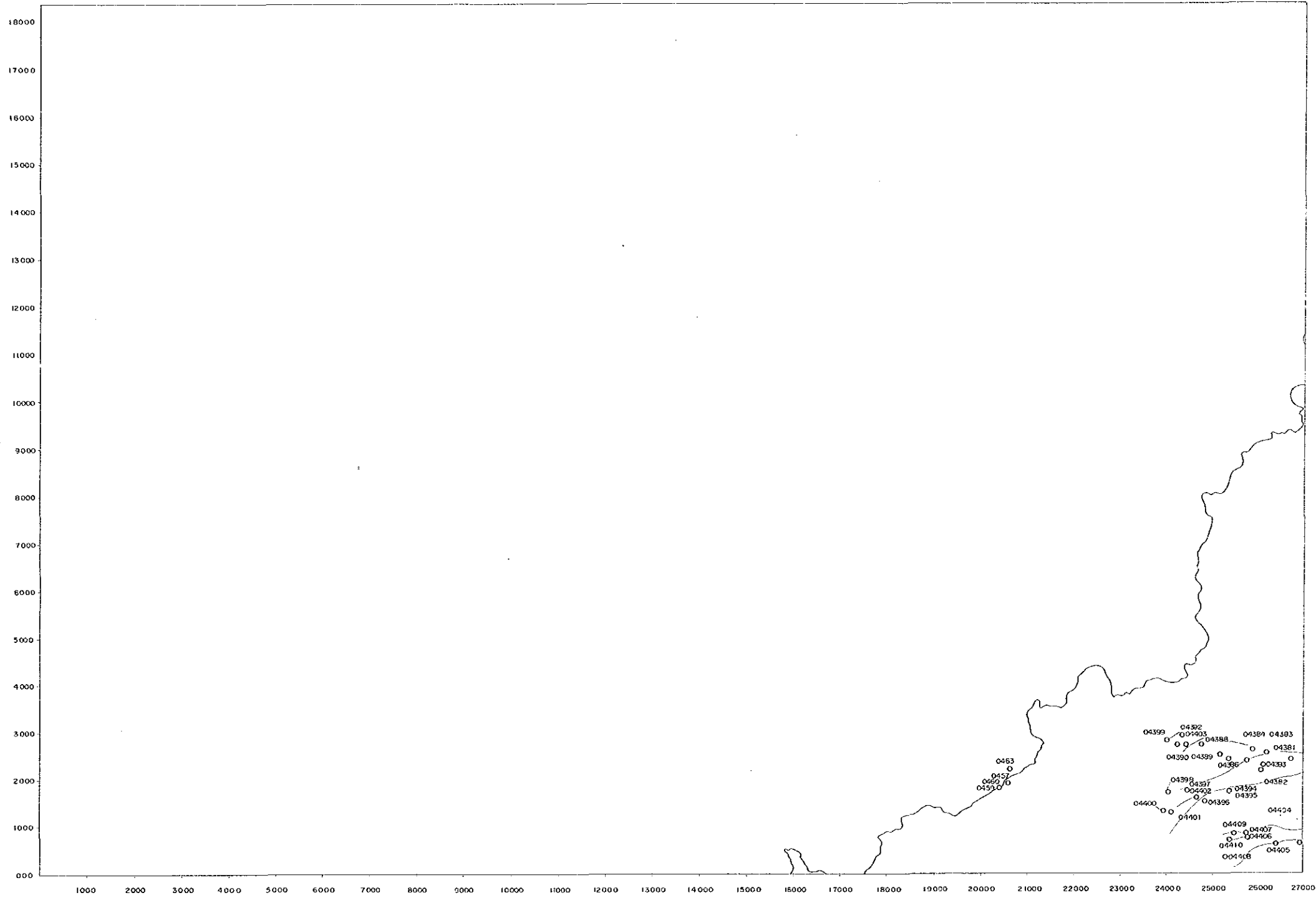
LEGEND



- : 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 280 : 電気伝導度 (μS/cm)
- [B-48] : 室内試験サンプル採取位置

KAYDUNGON BEACH

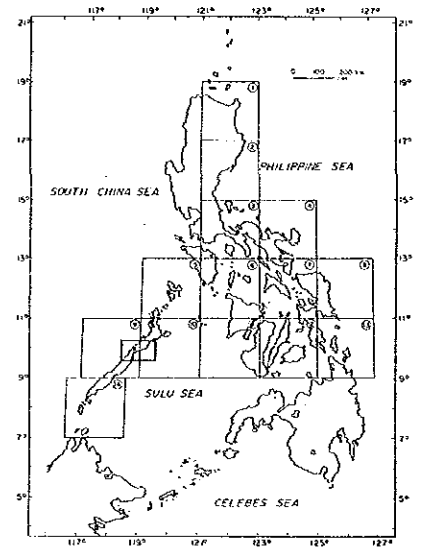
SHEET 2750 III



フィリピン共和国
鉱物資源基本図調

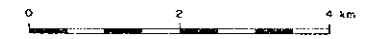
第3年次

サンプル採取位置図 (UNDP地区)
パラワン地域

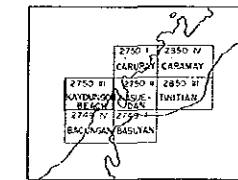


昭和62年2月
国際協力事業団
金属鉱業事業団

Scale 1 : 50,000



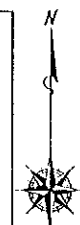
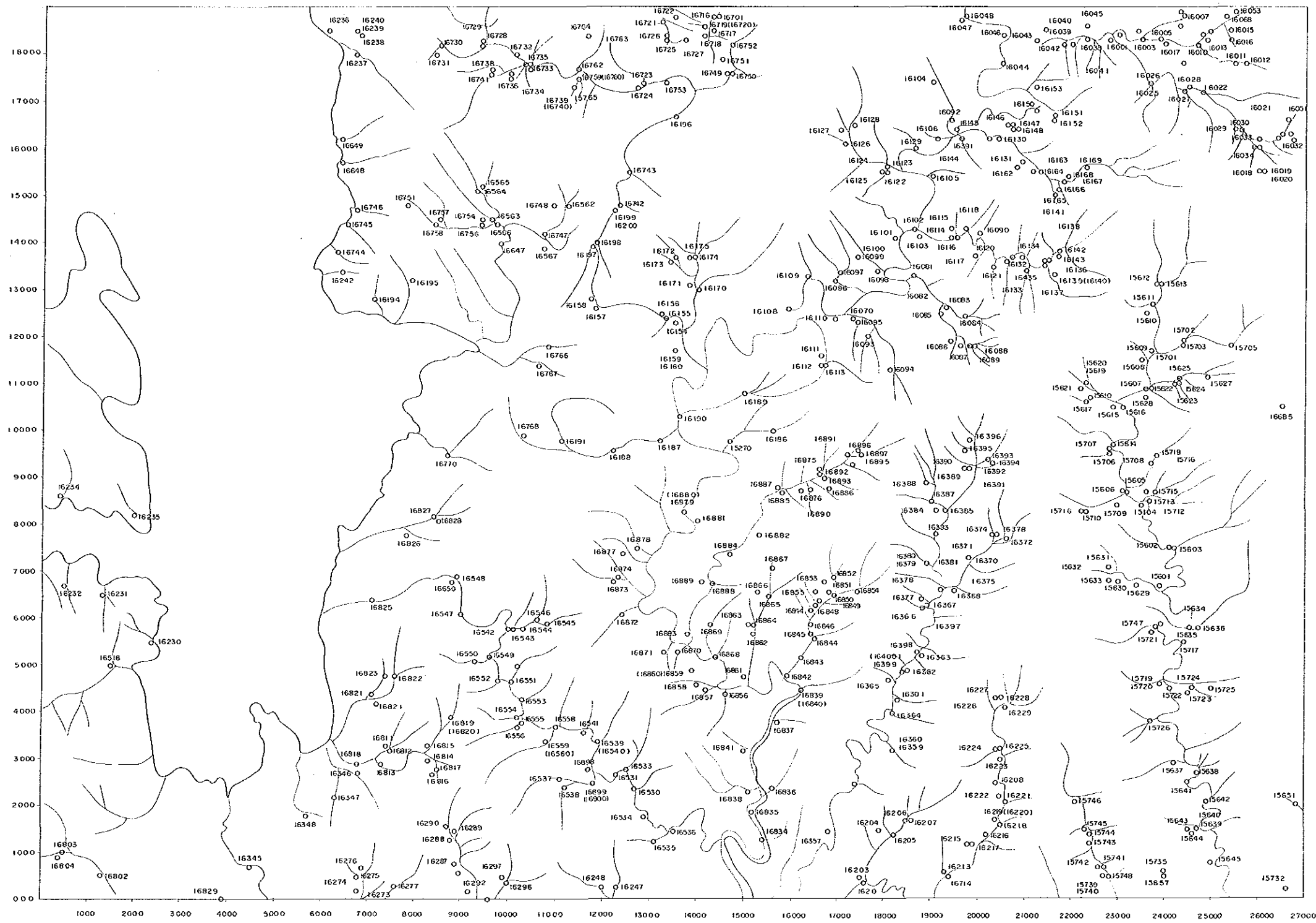
LEGEND



- : 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 280 : 電気伝導度 (μS/cm)
- [B-48] : 室内試験サンプル採取位置

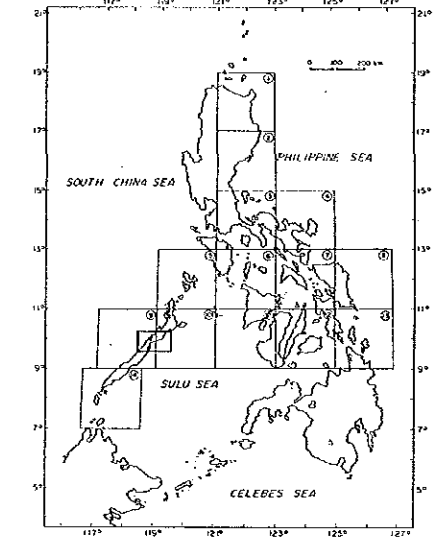
NASUEDAN

SHEET 2750 II



フィリピン共和国
 鉱物資源基本図調査
 第3年次
 サンプル採取位置図 (UNDP地区)
 パラワン地域

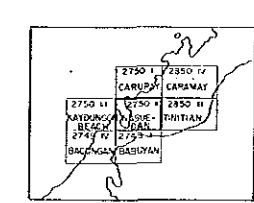
付図 2-4
 16320
 調査年度



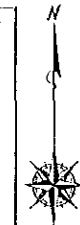
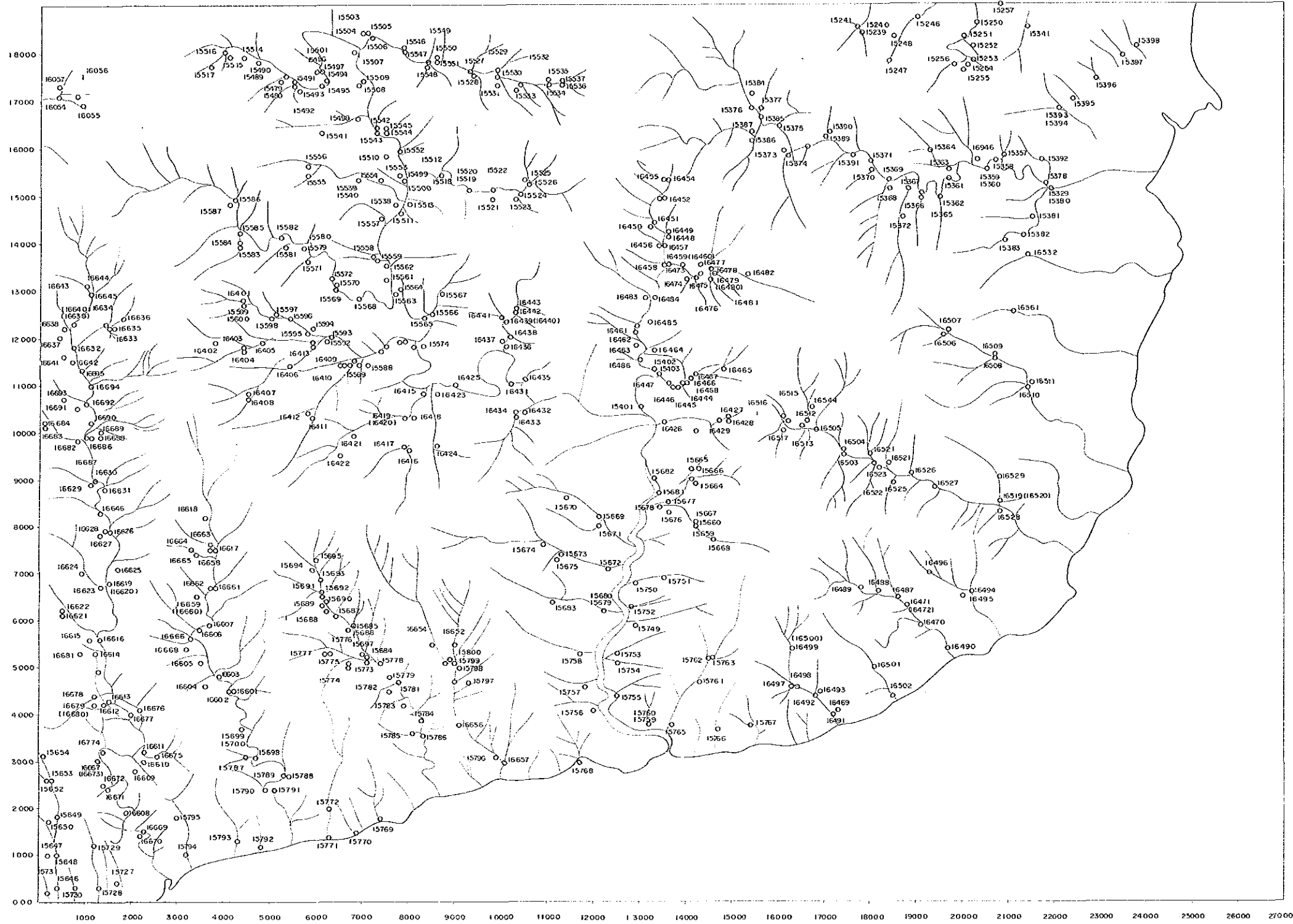
昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1 : 50,000

LEGEND



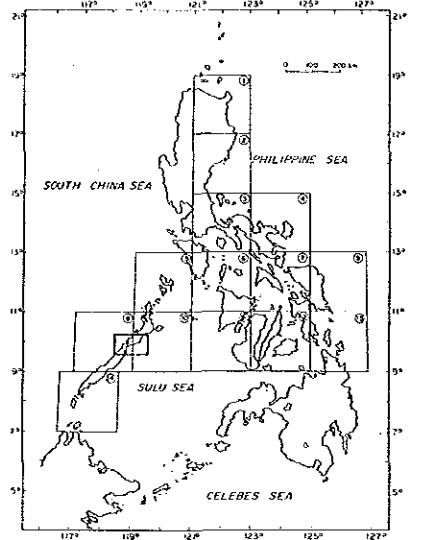
- : 河床堆積物・重鉱物 サンプル採取位置
- 17.0 : pH値
- 280 : 電気伝導度 (μS/cm)
- [B-4B] : 室内試験サンプル採取位置



フィリピン共和国
 鉱物資源基本図調査

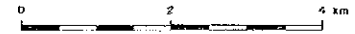
第3年次

サンプル採取位置図 (UNDP地区)
 パラワン地域



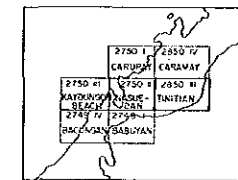
昭和62年2月
 国際協力事業団
 金属鉱業事業団

Scale 1 : 50,000



LEGEND

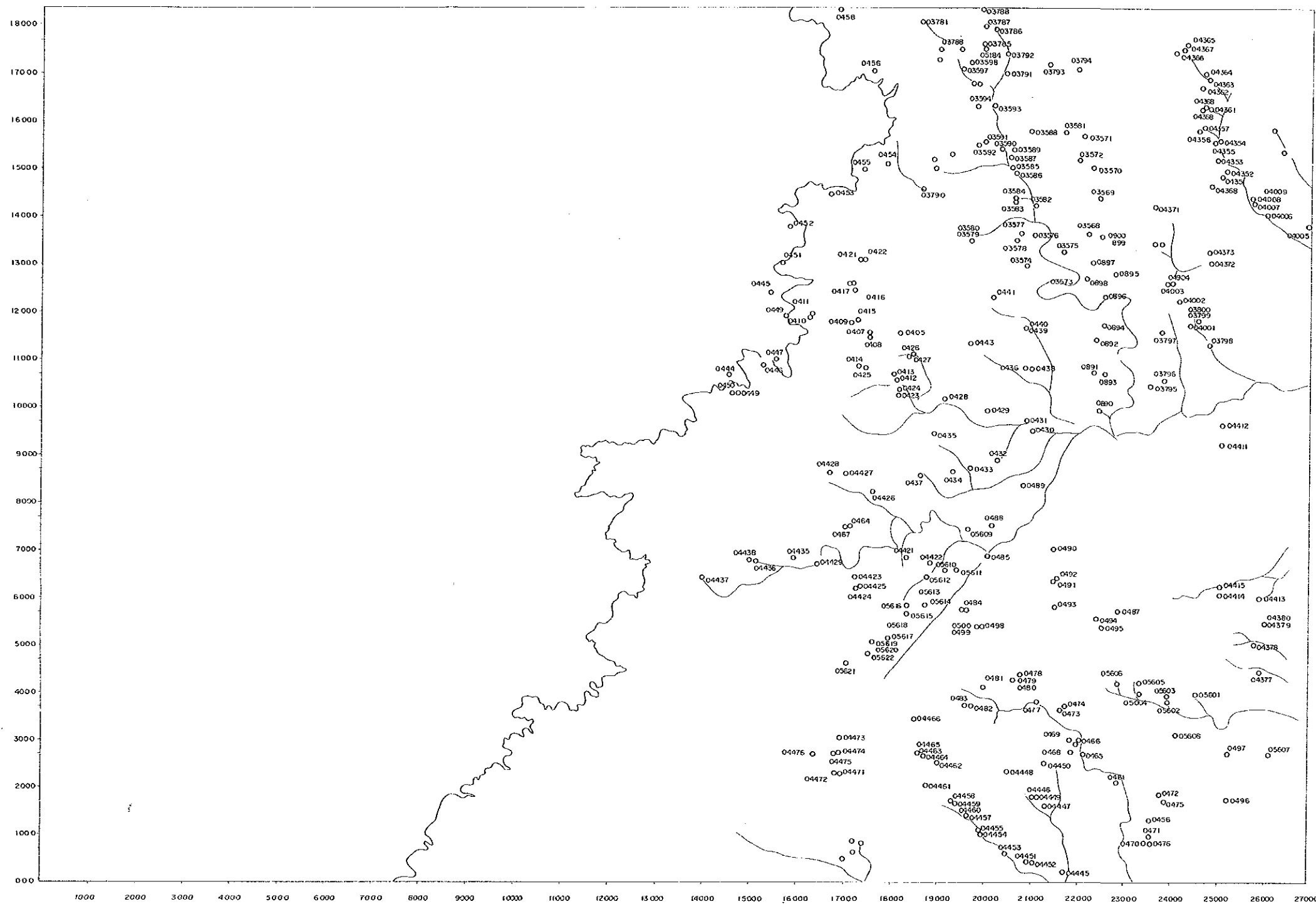
- : 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 280 : 電気伝導度 ($\mu S/cm$)
- [B-48] : 室内試験サンプル採取位置



付図2-5
 16320
 調査実施年度

BACUNGAN

SHEET 2749 IV

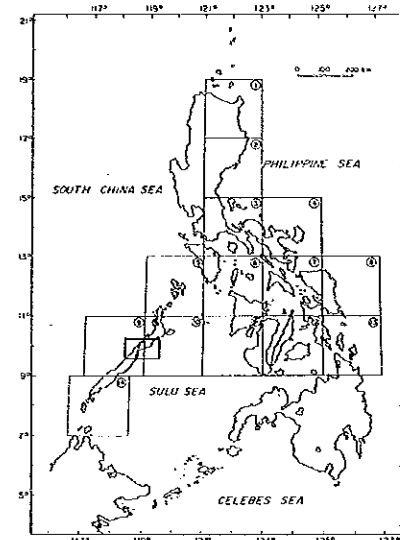


付図: 2749 6 添図
16320
国産資源調査

フィリピン共和国
鉱物資源基本図調査

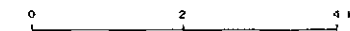
第3年次

サンプル採取位置図 (UNDP地区)
パラワン地域

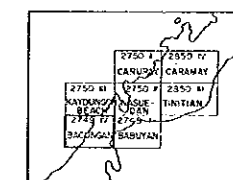


昭和62年2月
国際協力事業団
金属鉱業事業団

Scale 1:50,000



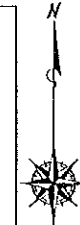
LEGEND



- : 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 280 : 電気伝導度 (μS/cm)
- B-48 : 室内試験サンプル採取位置

BABUYAN

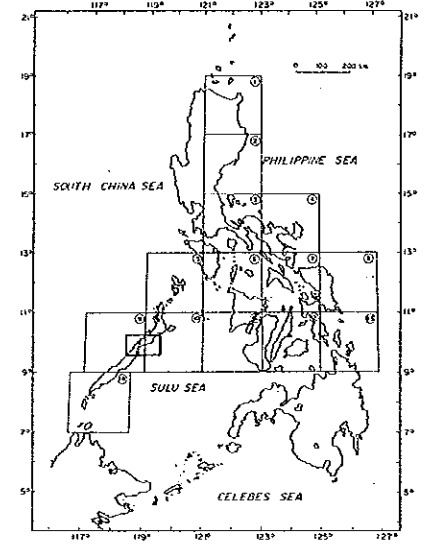
SHEET 2749I



フィリピン共和国
鉱物資源基本図調査

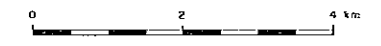
付図-2-7
国際協力事業団
16330
室内試験調査

第3年次
サンプル採取位置図 (UNDP地区)
パラワン地域

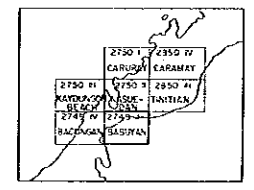


昭和62年2月
国際協力事業団
金属鉱業事業団

Scale 1:50,000



LEGEND



- : 河床堆積物・重鉱物 サンプル採取位置
- (7.0) : pH値
- 280 : 電気伝導度 (μS/cm)
- B-48 : 室内試験サンプル採取位置