REPUBLIC OF INDONESIA/
REPORT ON GEOLOGICAL SURVEY OF WEST KALIMANTAN FEB, 1981 MMAJ
PHASE II JICA

REPUBLIC OF INDONESIA

REPORT ON GEOLOGICAL SURVEY OF WEST KALIMANTAN

PHASE II

FEBRUARY, 1981

JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN

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BENGKAYANG

35 A

SEBALAU

KALIMANTAN BARAT

KALIMANTAN BARAT

SANGGAU

BENGKAYANG

BENGKAYANG

PL.1-1

METAL MINING AGENCY OF JAPAN — DIRECTORATE OF MINERAL RESOURCES
JAPAN INTERNATIONAL COOPERATION AGENCY — DIRECTORATE GENERAL OF MINES, MINISTRY OF MINES AND ENERGY, REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

GEOLOGICAL MAP

Scale 1:50,000

0 1 2 3 5Km

February · 1981

SEBALAU

35 A — HELAI II/VI-1 — KALIMANTAN BARAT

35A — HELAI II/VI-2

BENGKAYANG

MENYUKE

LEGEND

Sedimentary Rocks

QUATERNARY
- qc — Gravel, Sand
- qtl — Talus

TERTIARY
Serontak Formation
- tl — Dacitic pyroclastic rock
- tbr — Dacitic tuffbreccia
- dap — Serontak Dacite

CRETACEOUS
Belongo Formation
- ms 3 — Red mudstone
- or-dt 3 — Andesitic pyroclastic rock
- or-d 2 — Andesite 2 and gray mudstone
- dtf — Dacitic pyroclastic rock
- da — Dacite

JURASSIC ~
Jirak Formation
- cs — Coarse sandstone
- ms 2 — Mudstone 2
- or-dt 1 — Andesitic pyroclastic rock
- or-d 1 — Andesite 1

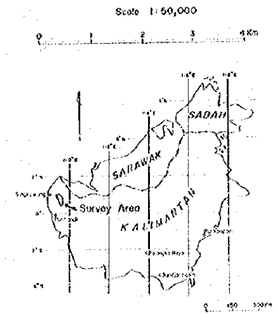
Igneous Rocks

- ad 3 — Andesite dyke
- ap 2 — Quartz porphyry 2
- di — Diorite dyke
- gd 4 — Granodiorite 4
- dole — Dolerite dyke
- qp 1 — Quartz porphyry 1
- altrk — Altered felsic rock
- tn 2 — Sinih Tonalite
- tn 1 — Banyi Tonalite
- qgb — G.Pandan Quartz gabbro
- gr 2 — Granite 2
- gr 1 — Granite 1
- qd — Tieng Quartz diorite
- gd 3 — G.Setontar Granodiorite
- gd 2 — G.Raya Granodiorite
- gd 1 — G.Sebiawak Granodiorite


SAMALANTAN
PEDORAYANG
G. LUMPUR
G. BUDENG
G. BATEK
G. MANDERING
G. ANSOLOPAYA
G. ASAHU SINDOUNG
G. TAWI
G. BANUT
BENGKAYANG
Sungai Kapuas
H
F
E
D
C
B

Scale 1:50,000

0 1 2 3 4 Km



February - 1981

LEGEND

Sedimentary Rocks

QUATERNARY
- qs Gravel, Sand
- qtl Talus

TERTIARY
Serantak Formation
- tf Dacitic pyroclastic rock
- tbx Dacitic tuffbreccio
- dap Serantak Dacite

Igneous Rocks

- dap 3 Andesite dyke
- qp 2 Quartz porphyry 2
- do Diorite dyke
- gd 4 Granodiorite 4
- dole Dolerite dyke
- qp 1 Quartz porphyry 1
- altra Altered felsic rock
- tn 2 Sirih Tonalite
- tn 1 Banyl Tonalite
- qab G.Pandan Quartz gabbro

CRETACEOUS
- gr 2 Granite 2
- gr 1 Granite 1
- qd Tiang Quartz diorite
- gd 3 G.Selantar Granodiorite
- gd 2 G.Raya Granodiorite
- gd 1 G.Sebiawak Granodiorite

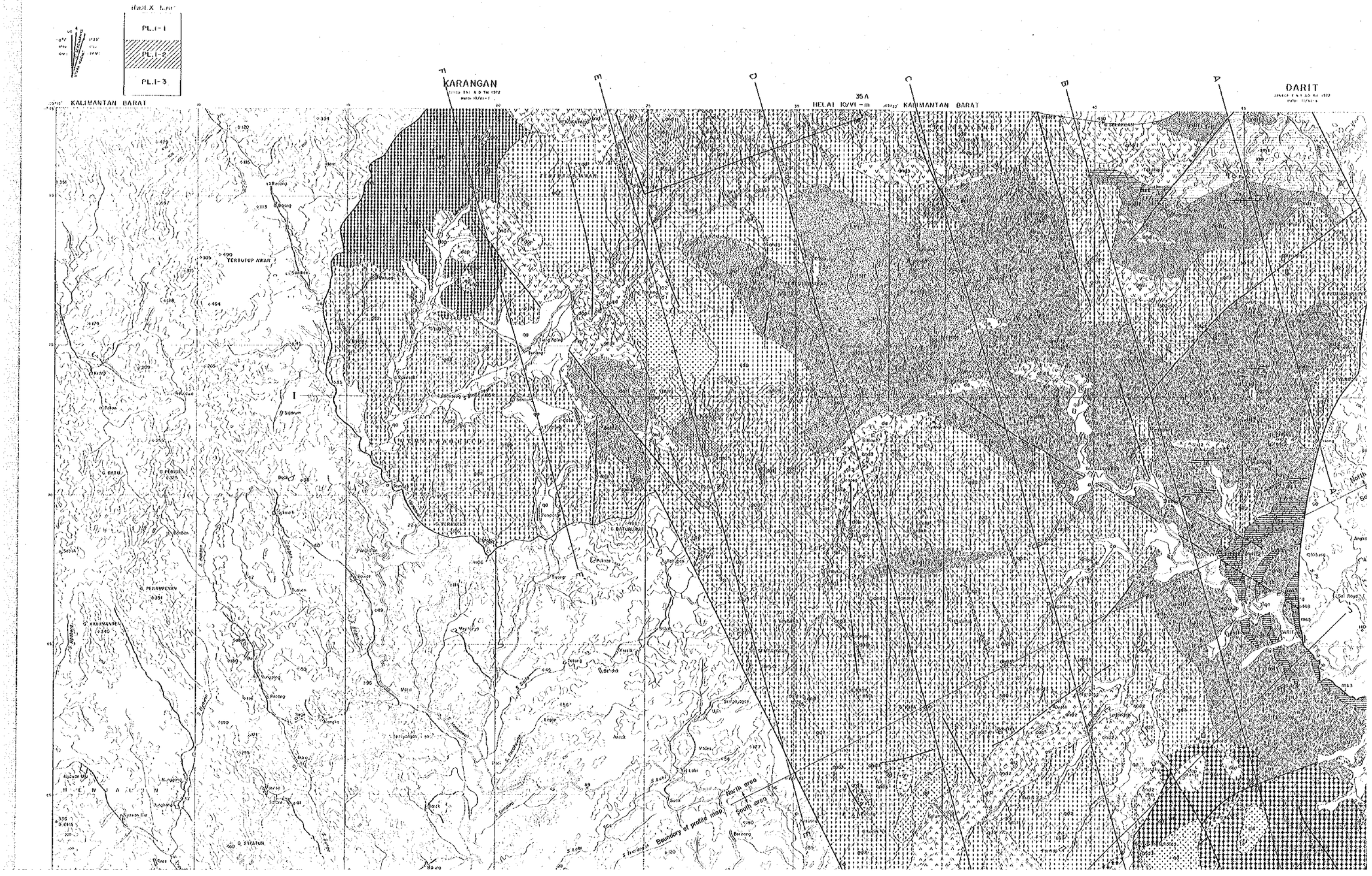
TRIASSIC ~ JURASSIC

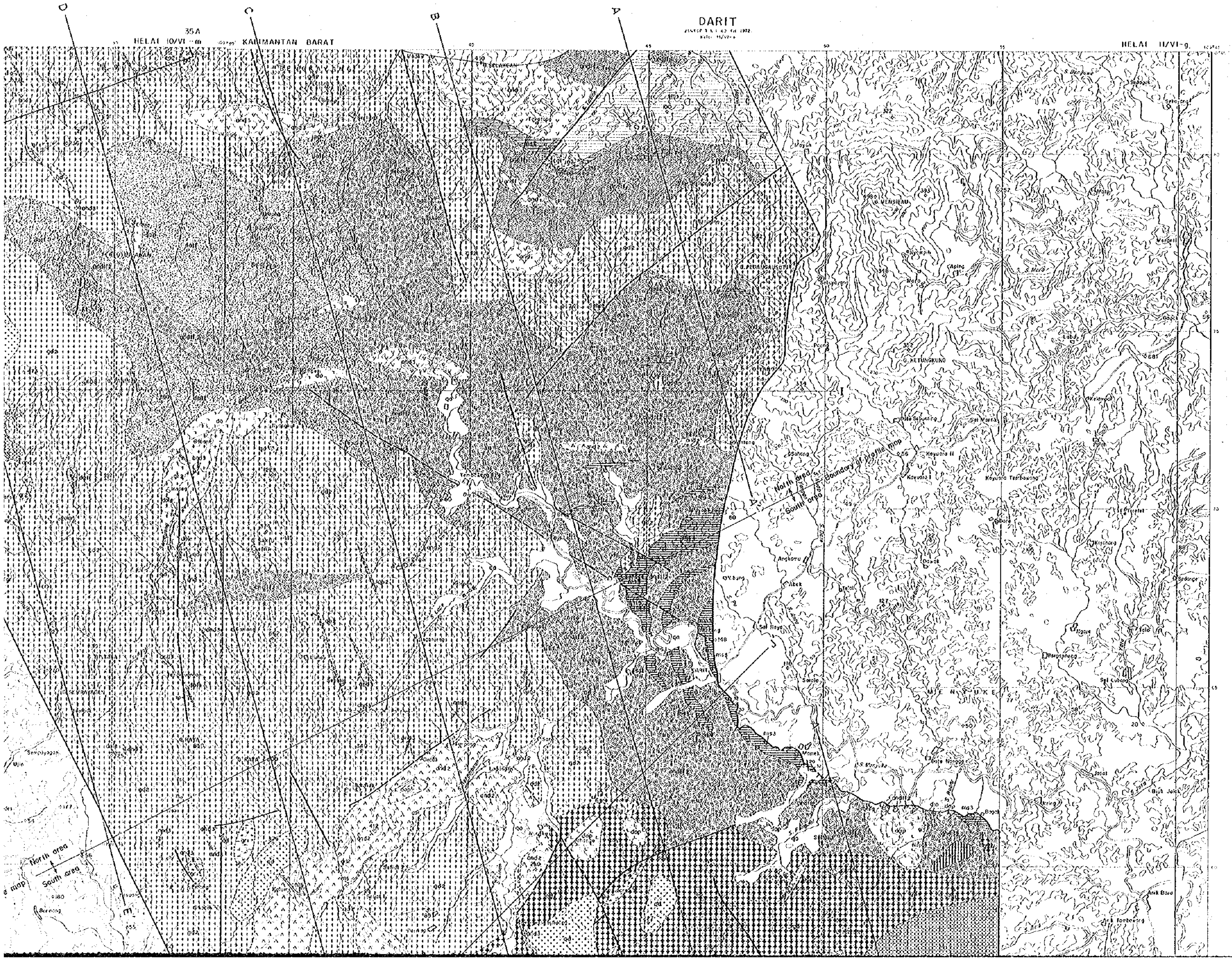
Belangai Formation
- ms 3 Red mudstone
- andtf 2 Andesitic pyroclastic rock
- and 2 Andesite 2 and gray mudstone
- dstf Dacitic pyroclastic rock
- da Dacite

Jirak Formation
- ss Coarse sandstone
- ms 2 Mudstone 2
- andtf 1 Andesitic pyroclastic rock
- and 1 Andesite 1
- cgt Conglomerate

Bungkayang Group
- sms Sungaibatang Formation (Alternating bed of sandstone siltstone and mudstone) (⊕ Fossil)
- ss Riampelaya Formation (Sandstone)
- ms 1 Kaitung Formation (Black shale)
- acff Bonan Formation (Acidic tuff)
- tfss Bonan Formation (Tuffaceous sandstone)

- Strike and dip of bedding
- Anticlinal axis
- Synclinal axis
- Fault confirmed
- Fault inferred
- A—A' Line of profile map


PL.I-1
PL.I-2
PL.I-3
KARANGAN
DARIT
KALIMANTAN BARAT
KALIMANTAN BARAT
INDEKS PETA
TERTUTUP AWAN
G. BATU
G. PENAMPEYAN
G. KAYUMANTEN
G. SAMATUN
G. BATURUJUH
G. SELAMBAU
M E N J A U
North area
South area
Boundary of profile map



PL. I-2

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

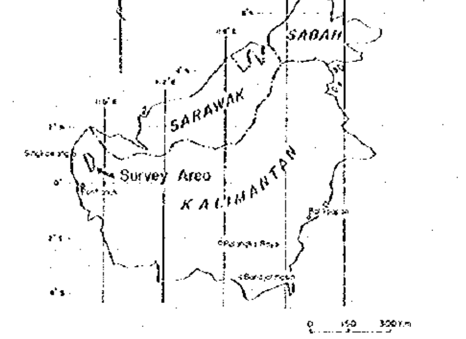
DIRECTORATE OF MINERAL RESOURCES
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY
IN
WEST KALIMANTAN INDONESIA

GEOLOGICAL MAP

Scale 1: 50,000

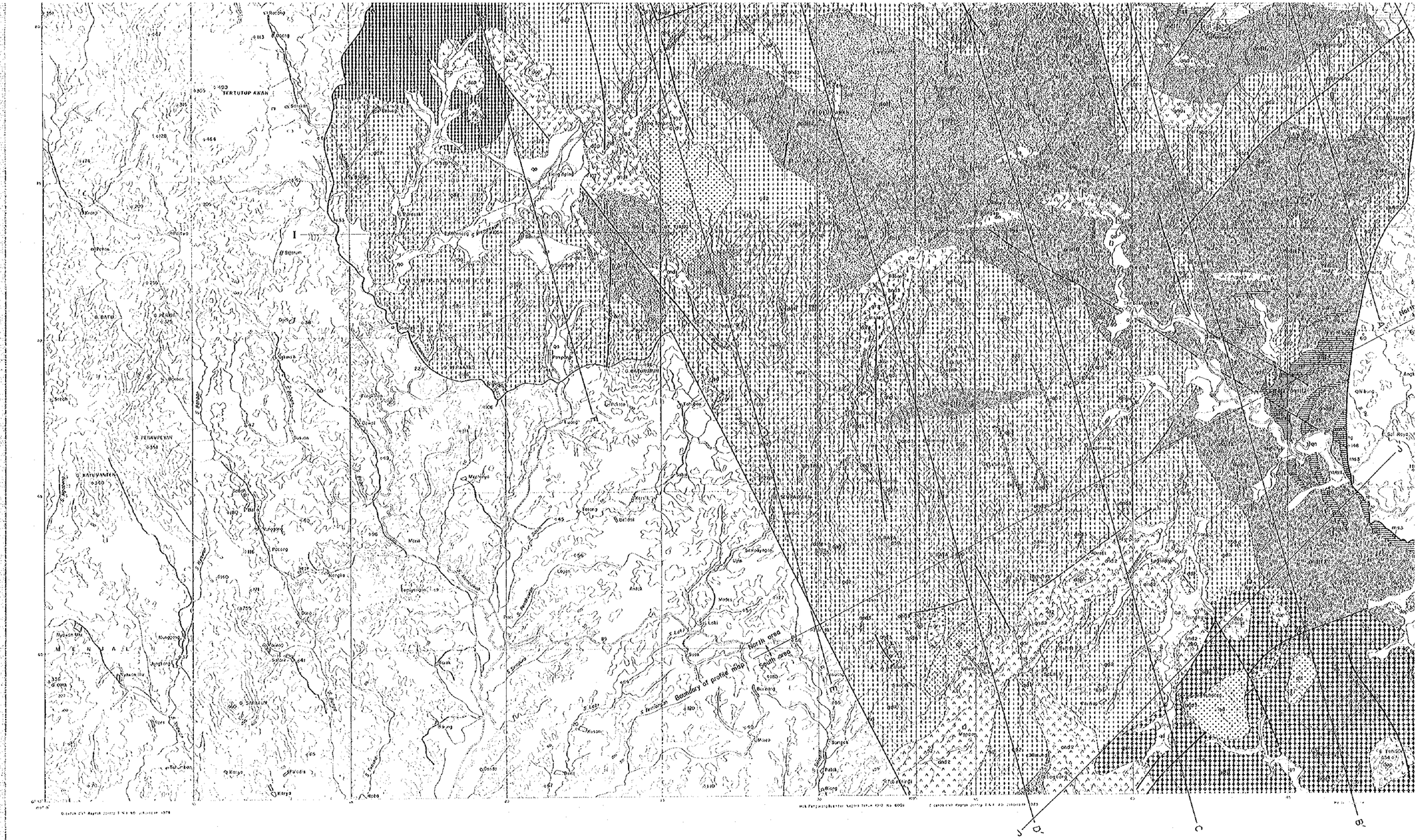
0 1 2 3 4 Km



February - 1981

LEGEND

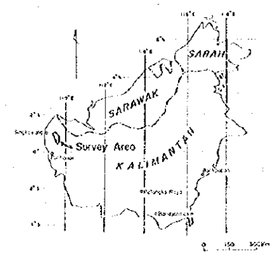
	Sedimentary Rocks	Igneous Rocks
QUATERNARY	qa Gravel, Sand	
	qt Talus	
TERTIARY		and3 Andesite dyke
		qp2 Quartz porphyry 2
		dio Diorite dyke
		gd4 Granodiorite 4
	Seranlak Formation	dolr Dolerite dyke
	tf Dacitic pyroclastic rock	qp1 Quartz porphyry 1
	tbr Dacitic tuffbreccio	alfn Altered felsic rock
	dap Seranlak Dacite	tn2 Sirih Tonalite
		tn1 Banyi Tonalite
		qgb G.Pandan Quartz gabbro
CRETACEOUS		gr2 Granite 2
		gr1 Granite 1
		qd Tiang Quartz diorite
		gd3 G.Selantar Granodiorite
		gd2 G.Raya Granodiorite
		gd1 G.Sebiawak Granodiorite
...IC ~ JURASSIC	Belango Formation	
	ms3 Red mudstone	
	andt2 Andesitic pyroclastic rock	
	and2 Andesite 2 and gray mudstone	
	datf Dacitic pyroclastic rock	
	da Dacite	
	Jirak Formation	
	css Coarse sandstone	
	ms2 Mudstone 2	
	andt1 Andesitic pyroclastic rock	
	and1 Andesite 1	


TERTUTUP AWAN
G. BATU
G. PETAMPEYAN
G. KANYAWANGEN
G. SIMPANG
G. KANGA
G. PANDAN
G. BATURURUS
G. SUNGAI
G. TANGGA
M E N A R A
Boundary of profile map
North area
South area
A
B
C
D

GEOLOGICAL MAP

Scale 1:50,000

0 1 2 3 4Km



February - 1981

LEGEND

Sedimentary Rocks | **Igneous Rocks**

QUATERNARY
- Gravel, Sand
- Talus

TERTIARY

Serantok Formation
- Dacitic pyroclastic rock
- Dacitic tuffbreccio
- Serantok Dacite

Igneous Rocks
- Andesite dyke
- Quartz porphyry 2
- Diorite dyke
- Granodiorite 4
- Doleritic dyke
- Quartz porphyry 1
- Altered felsic rock
- Sirih Tonalite
- Banyi Tonalite
- G.Pendan Quartz gabbro

CRETACEOUS
- Granite 2
- Granite 1
- Trang Quartz diorite
- G.Selantar Granodiorite
- G.Raya Granodiorite
- G.Sebiawak Granodiorite

TRIASSIC ~ JURASSIC

Belongo Formation
- Red mudstone
- Andesitic pyroclastic rock
- Andesite 2 and gray mudstone
- Dacitic pyroclastic rock
- Dacite

Jirak Formation
- Coarse sandstone
- Mudstone 2
- Andesitic pyroclastic rock
- Andesite 1
- Conglomerate

Bungkoyang Group
- Sungaibatang Formation (Alternating bed of sandstone siltstone and mudstone) (Φ Fossil)
- Rumpeloyo Formation (Sandstone)
- Kalung Formation (Black shale)
- Bonen Formation (Acidic tuff)
- Banan Formation (Tuffaceous sandstone)

- Strike and dip of bedding
- Anticlinal axis
- Synclinal axis
- Fault confirmed
- Fault inferred
- A—A' Line of profile map

INDEX MAP

PL.I-1

PL.I-2

PL.I-3

MANDOR

PAMUMAN

KALIMANTAN BARAT

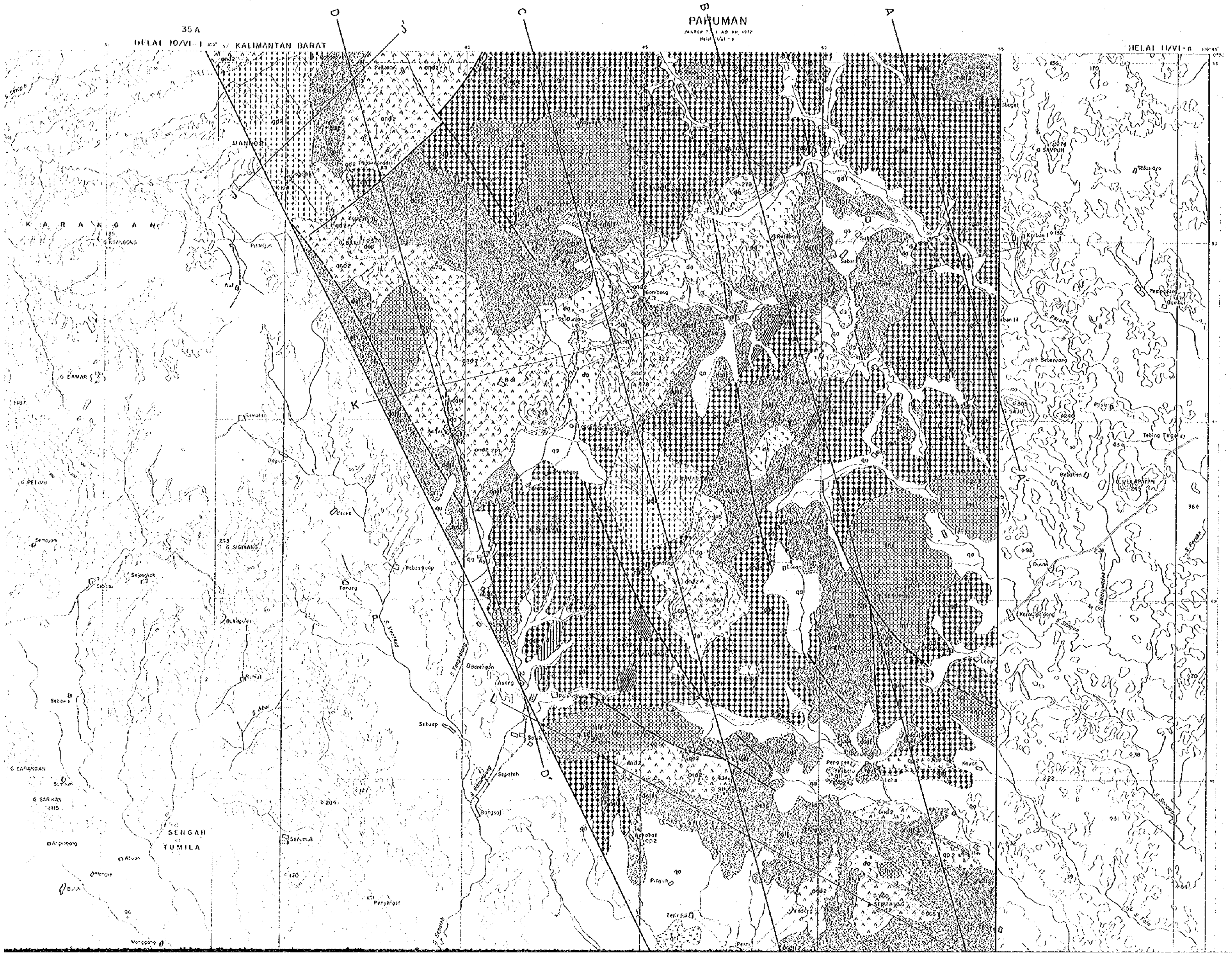
KALIMANTAN BARAT

35 A

KARANGAN

SENGAH TEMILA

MANDOR



PL.1-3

METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

— DIRECTORATE OF MINERAL RESOURCES

DIRECTORATE GENERAL OF MINES

MINISTRY OF MINES AND ENERGY

REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY

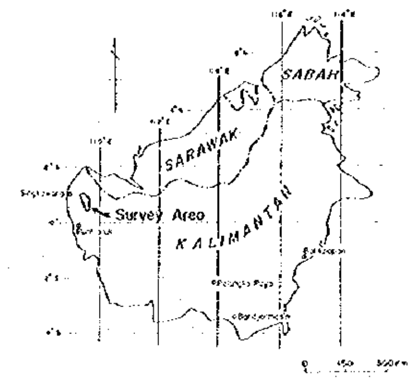
IN

WEST KALIMANTAN INDONESIA

GEOLOGICAL MAP

Scale 1:50,000

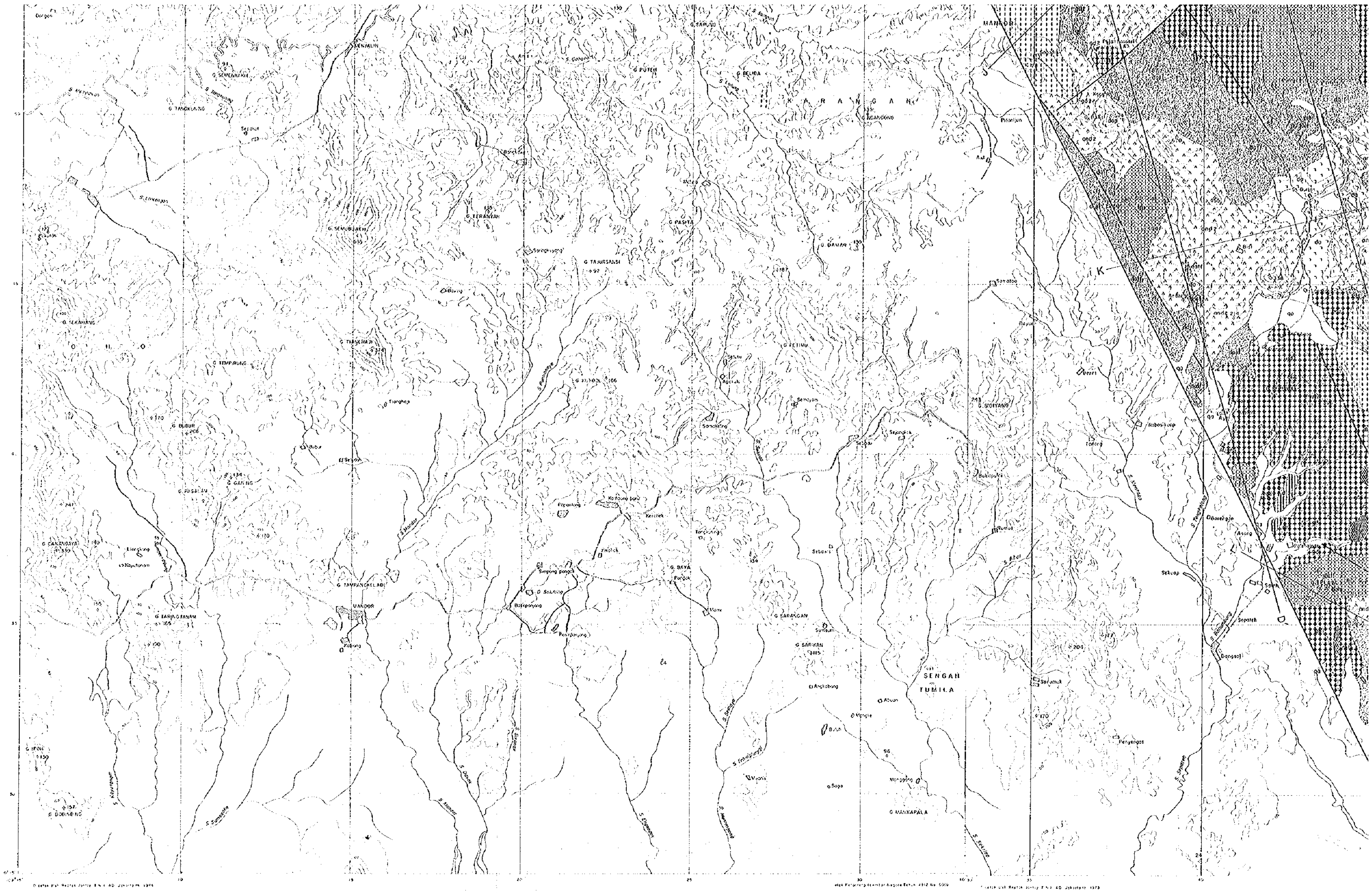
0 1 2 3 4 Km



February · 1981

LEGEND

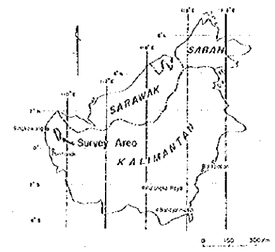
	Sedimentary Rocks	Igneous Rocks
QUATERNARY	qa Gravel, Sand	
	qtl Talus	
TERTIARY		and 3 Andesite dyke
		qp 2 Quartz porphyry 2
		dio Diorite dyke
		gd 4 Granodiorite 4
	Serontok Formation	dole Dolerite dyke
	tf Dacitic pyroclastic rock	qp 1 Quartz porphyry 1
	tbr Dacitic tuffbreccia	altfn Altered felsic rock
	dap Serontok Dacite	tn 2 Sirih Tonalite
		tn 1 Banyi Tonalite
		qgb G.Pandan Quartz gabbro
CRETACEOUS		gr 2 Granite 2
		gr 1 Granite 1
		qd Tiang Quartz diorite
		gd 3 G.Selantar Granodiorite
		gd 2 G.Raya Granodiorite
		gd 1 G.Sebiawak Granodiorite
JURASSIC	Belango Formation	
	ms 3 Red mudstone	
	andtf 2 Andesitic pyroclastic rock	
	and 2 Andesite 2 and gray mudstone	
	datf Dacitic pyroclastic rock	
	da Dacite	
	Jirak Formation	
	css Coarse sandstone	
	ms 2 Mudstone 2	
	andtf 1 Andesitic pyroclastic rock	
	and 1 Andesite 1	


MANDOR
K A R A N G A N
G. PUTEH
G. BELIDA
G. SARUSO
G. NGANGONG
G. TERANYAH
G. PASITA
G. DAMAR
G. TAJURSANSI
G. SEKANANG
T O H O
G. TEMPIRUNG
G. BUBUR
G. PASALAU
G. CANANGAYA
G. TAMPANCKEL ADI
MANDOR
G. BAYA
G. SARANGAN
G. SARIKAN
SENGAH
TUMILA
G. MANKAPALA
G. SIGIYANG
G. FETIMU
G. BODINONG
Kobong
Kerchek
Sepatah
Dangsoji
Rabosikuop
Pengengat
S. Mandor
S. Sekilap
S. Tengkalang
S. Sepatah
K
D

GEOLOGICAL MAP

Scale 1:50,000

0 1 2 3 4 Km



February - 1981

LEGEND

Sedimentary Rocks — **Igneous Rocks**

QUATERNARY

- Gravel, Sand
- Talus

TERTIARY

Serantok Formation
- Dacitic pyroclastic rock
- Dacitic tuffbreccia
- Serantok Diorite

- Andesite dyke
- Quartz porphyry 2
- Diorite dyke
- Granodiorite 4
- Dolerite dyke
- Quartz porphyry 1
- Altered felsic rock
- Sirih Tonalite
- Benyi Tonalite
- G.Pondon Quartz gabbro

CRETACEOUS

- Granite 2
- Granite 1
- Tiang Quartz diorite
- G.Selantar Granodiorite
- G.Raya Granodiorite
- G.Sebiawak Granodiorite

TRIASSIC ~ JURASSIC

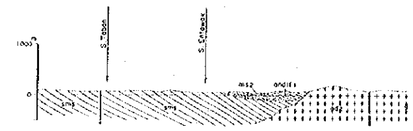
Belongo Formation
- Red mudstone
- Andesitic pyroclastic rock
- Andesite 2 and gray mudstone
- Dacitic pyroclastic rock
- Dacite

Jirok Formation
- Coarse sandstone
- Mudstone 2
- Andesitic pyroclastic rock
- Andesite 1
- Conglomerate

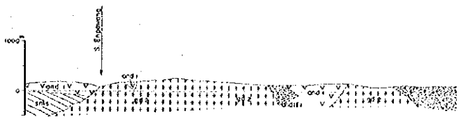
Bungkayang Group
- Sungaibetung Formation (Alternating bed of sandstone siltstone and mudstone) (& Fossil)
- Rampatayo Formation (Sandstone)
- Kolung Formation (Black shale)
- Bonan Formation (Acidic tuff)
- Bonan Formation (Tuffaceous sandstone)

- Strike and dip of bedding
- Anticlinal axis
- Synclinal axis
- Fault conformed
- Fault inferred
- A—A' Line of profile map

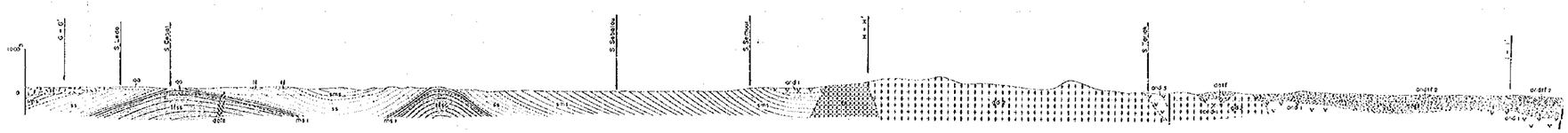
A – A′



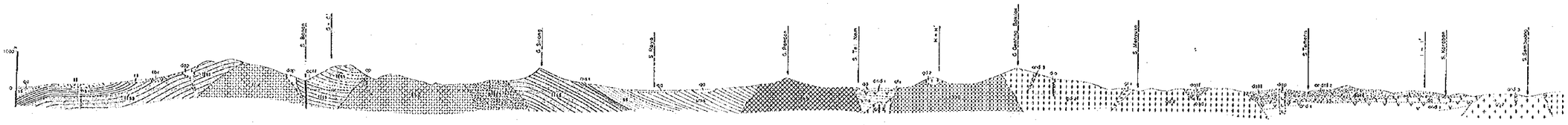
B – B



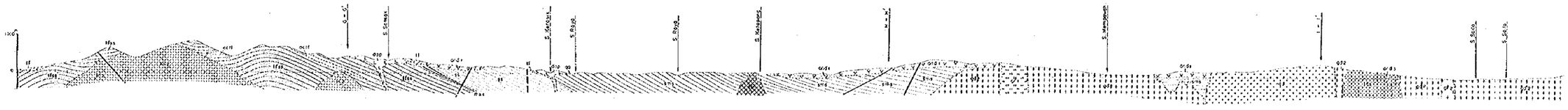
C – C′



D – D′



E – E′



METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
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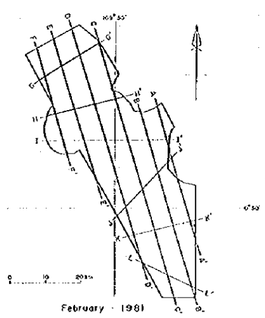
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

GEOLOGICAL PROFILES (NORTH AREA)

Scale 1:50,000

0 1 2 3 4km



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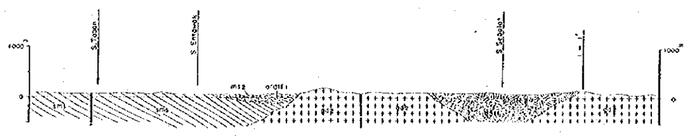
A – A′



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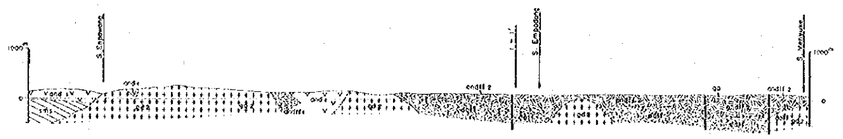
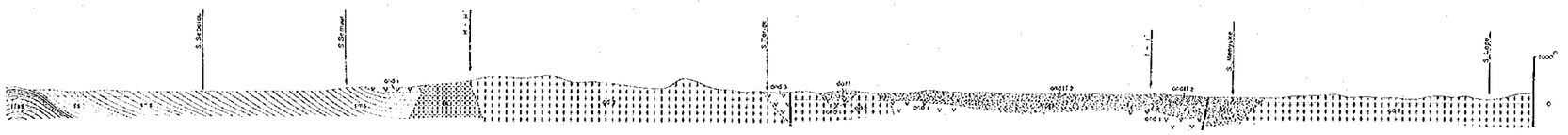
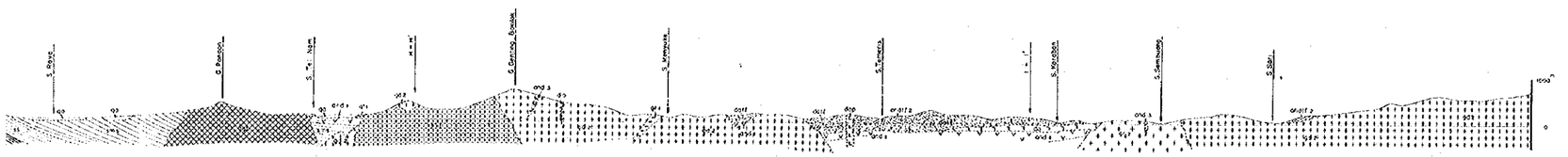


C – C′



D – D′



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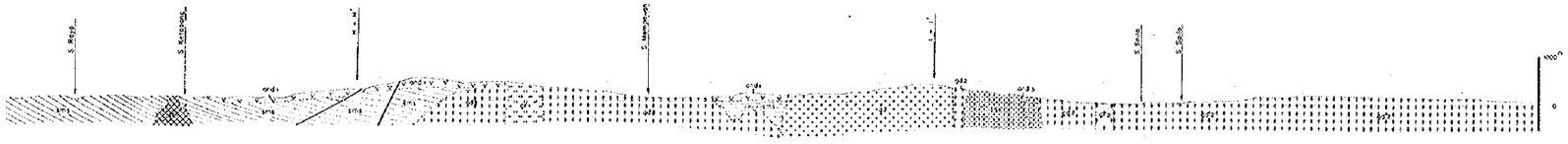


LEGEND

Sedimentary Rocks

QUATERNARY
- qs Gravel, Sand
- qst Talus

TERTIARY
Serantak Formation
- tf Dacitic pyroclastic rock
- tbr Dacitic tuffbreccia
- dsp Serantak Dacite

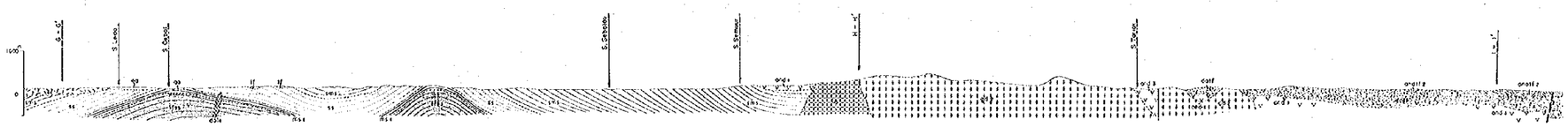
CRETACEOUS
Belchas Formation
- ms 3 Red mudstone
- andst 2 Andesitic pyroclastic rock
- and 2 Andesite 2 and grey mudstone
- dcst Dacitic pyroclastic rock
- da Dacite

JURASSIC
Jirak Formation
- ss Coarse sandstone
- ms 2 Mudstone 2
- andst 1 Andesitic pyroclastic rock

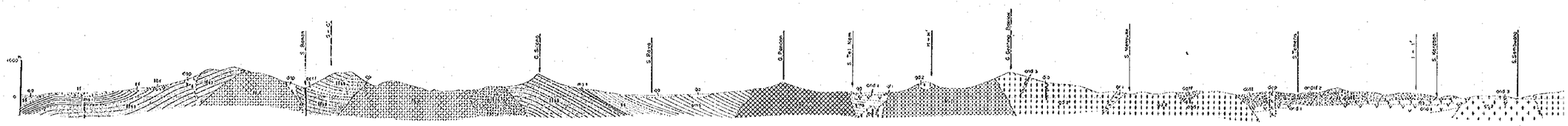
Igneous Rocks

- and 3 Andesite dyke
- qp 2 Quartz porphyry 2
- do Diorite dyke
- gd 4 Granodiorite 4
- dde Doleritе dyke
- qp 1 Quartz porphyry 1
- altro Altered felsic rock
- th 2 Sirih Tonalite
- th 1 Banyi Tonalite
- qdb G.Pandan Quartz gabbro
- gr 2 Granite 2
- gr 1 Granite 1
- qd Tiang Quartz diorite
- gd 3 G.Selantor Granodiorite
- gd 2 G.Raya Granodiorite
- gd 1 G.Sebianak Granodiorite

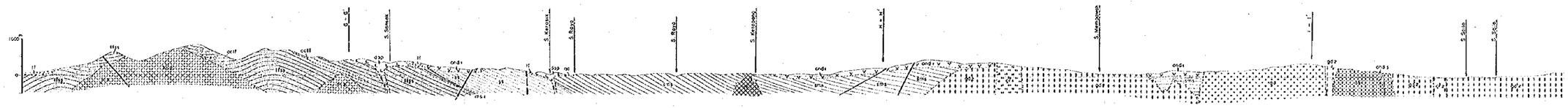
C – C′



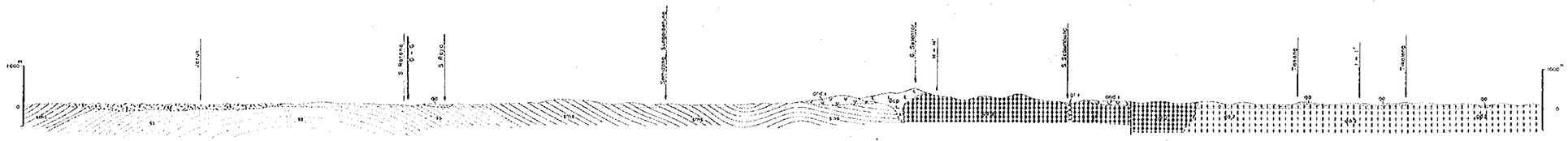
D – D′



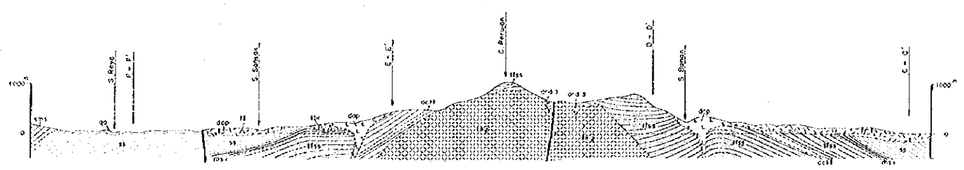
E – E′



F – F′

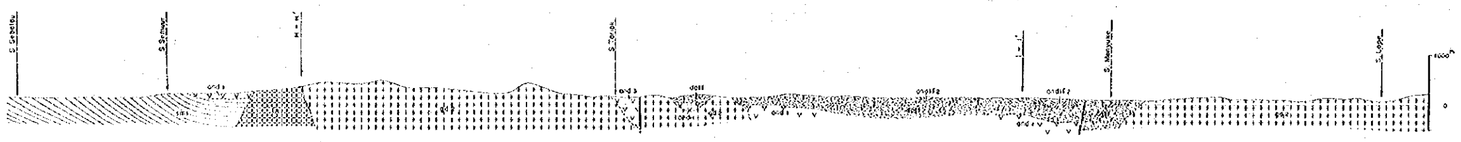


G – G′

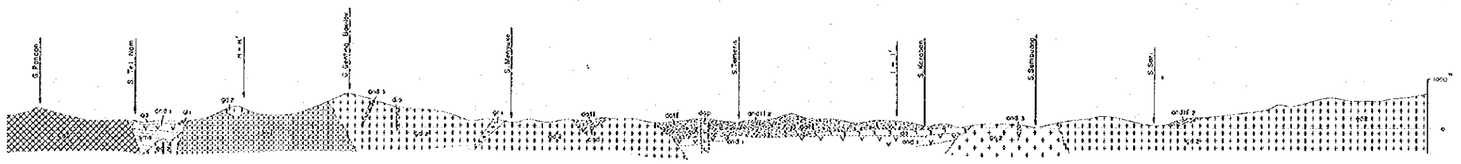


H – H′

C – C′



D – D′



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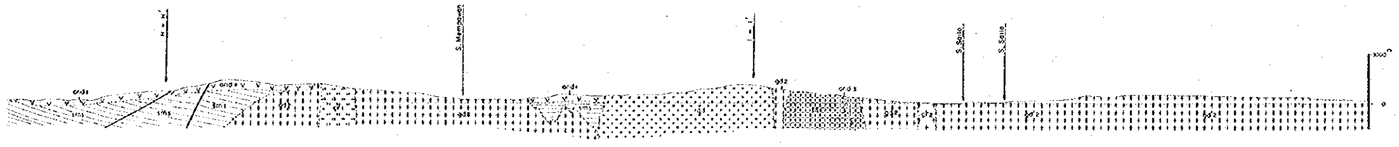

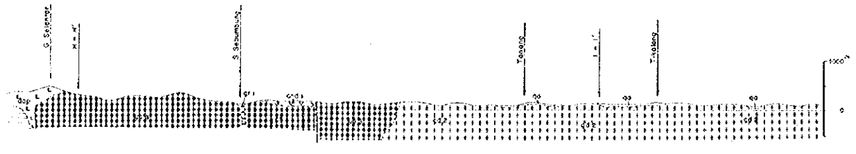

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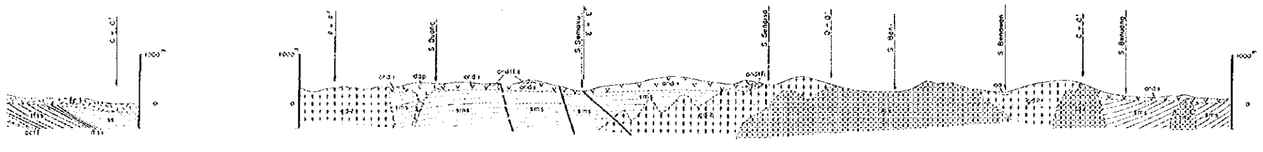


February - 1981

LEGEND

QUATERNARY

Sedimentary Rocks

- qa Gravel, Sand
- qtl Tolas

TERTIARY

Serentok Formation

- tf Dacitic pyroclastic rock
- tbr Dacitic tuffbreccia
- dap Serentok Dacite

Igneous Rocks

- and 3 Andesite dyke
- qp 2 Quartz porphyry 2
- do Diorite dyke
- gd 4 Granodiorite 4
- dole Dolerite dyke
- qp 1 Quartz porphyry 1
- altrh Altered felsic rock
- tn 2 Sirih Tonalite
- tn 1 Benyi Tonalite
- gab G.Pondon Quartz gabbro

CRETACEOUS

- gr 2 Granite 2
- gr 1 Granite 1
- qd Tiang Quartz diorite
- gd 3 G.Selantor Granodiorite
- gd 2 G.Raya Granodiorite
- gd 1 G.Sebiowok Granodiorite

TRIASSIC ~ JURASSIC

Belango Formation

- ms 3 Red mudstone
- and 2 Andesitic pyroclastic rock
- and 2 Andesite 2 and gray mudstone
- datt Dacitic pyroclastic rock
- da Dacite

Jirak Formation

- css Coarse sandstone
- ms 2 Mudstone 2
- and 1 Andesitic pyroclastic rock
- and 1 Andesite 1
- cgl Conglomerate

Bungkoyang Group

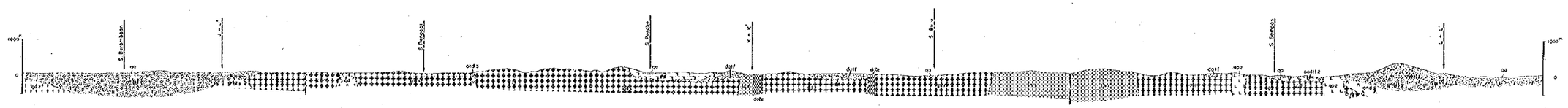
- sms Sangobelung Formation (Alternating bed of sandstone siltstone and mudstone) (⊕ Fossil)
- ss Rompefeyo Formation (Sandstone)
- ms 1 Kalung Formation (Black shale)
- act Banan Formation (Acidic tuff)
- tfss Banan Formation (Tuffaceous sandstone)

Fault confirmed

Fault inferred

A – A′

B – B′



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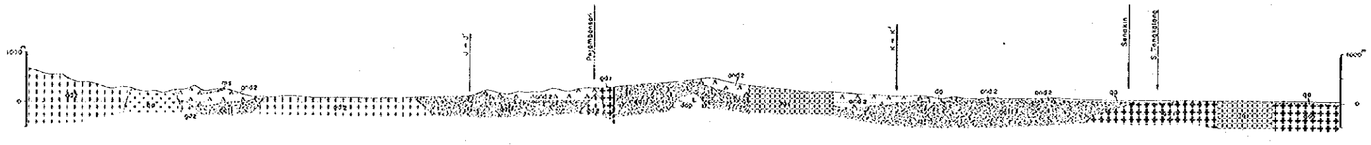

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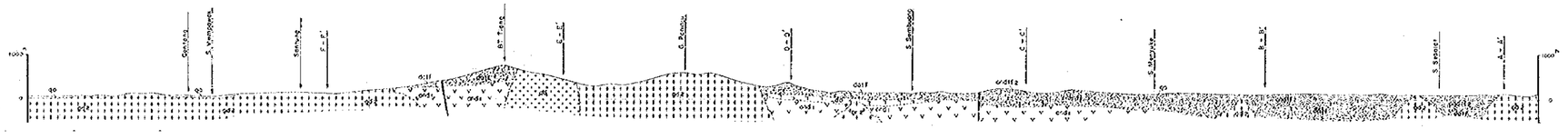

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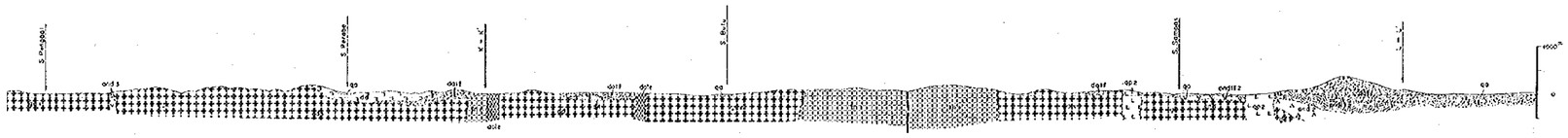

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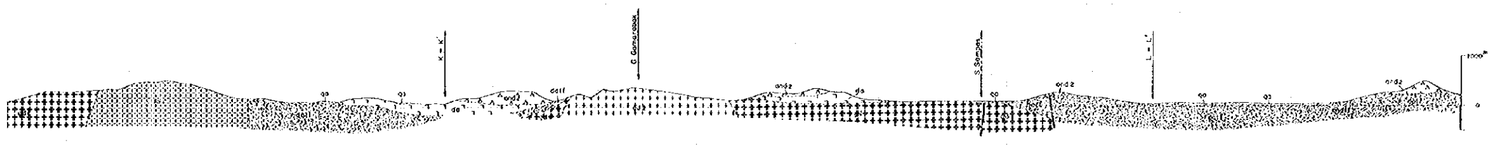

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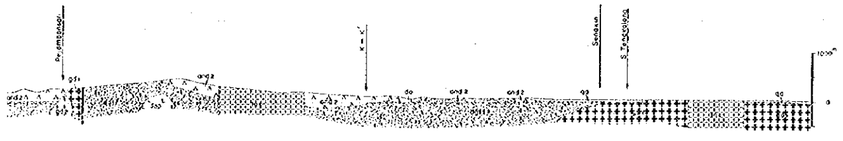

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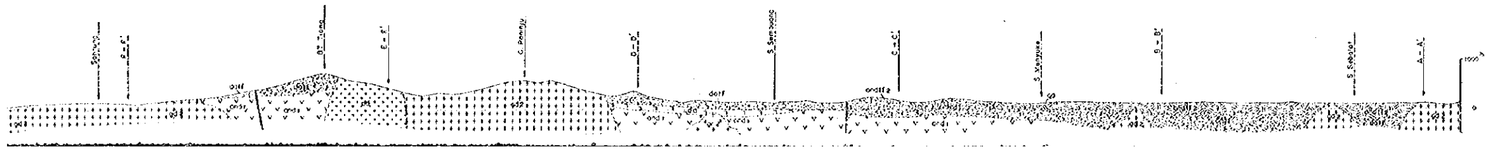


PL 2-2

METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY

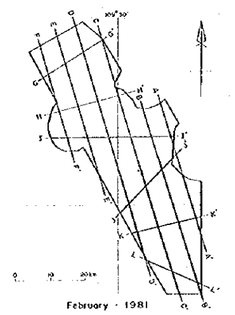
DIRECTORATE OF MINERAL RESOURCES
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

GEOLOGICAL PROFILES (SOUTH AREA)

Scale 1:50,000

0 1 2 3 4km



February - 1981

LEGEND

QUATERNARY

Sedimentary Rocks

- qs Gravel, Sand
- qtl Tellus

TERTIARY

Igneous Rocks

- qdd 3 Andesite dyke
- qp 2 Quartz porphyry 2
- dio Diorite dyke
- gd 4 Granodiorite 4
- dole Doferite dyke
- qp 1 Quartz porphyry 1
- altrn Altered felsic rock
- tn 2 Sirih Tonalite
- tn 1 Banyi Tonalite
- qgb G.Pandan Quartz gabbro

Serantak Formation

- tf Dacitic pyroclastic rock
- tbr Dacitic tuffbreccia
- dap Serantak Dacite

CRETACEOUS

- gr 2 Granite 2
- gr 1 Granite 1
- qd Tiang Quartz diorite
- gd 3 G.Selamlor Granodiorite
- gd 2 G.Raya Granodiorite
- gd 1 G.Sebiowak Granodiorite

JURASSIC

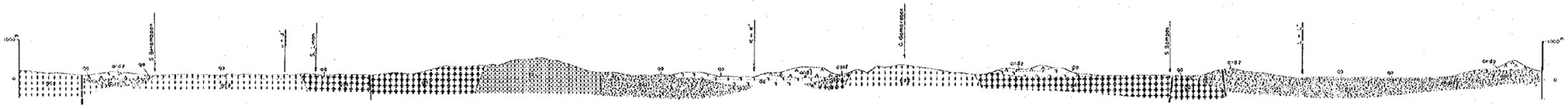
Belango Formation

- ss 3 Red mudstone
- ansltz Andesitic pyroclastic rock
- and 2 Andesite 2 and gray mudstone
- dstf Dacitic pyroclastic rock
- da Dacite

Jirak Formation

- css Coarse sandstone
- ms 2 Mudstone 2
- ansltz Andesitic pyroclastic rock

C – C′



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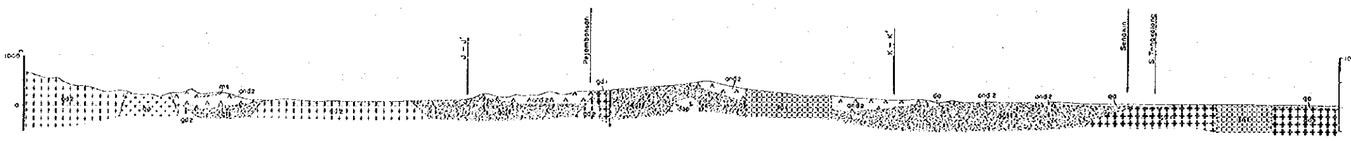

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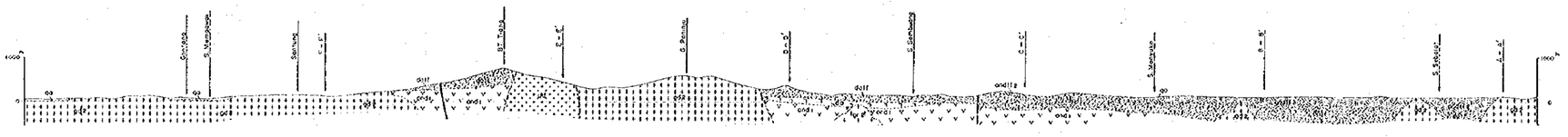

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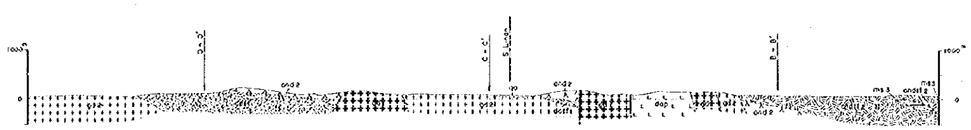

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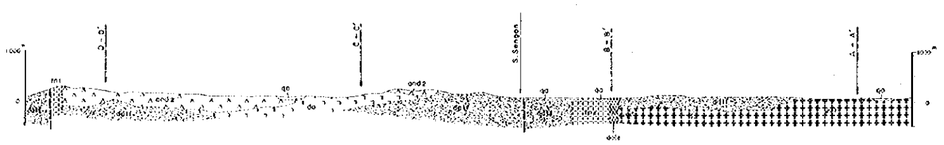

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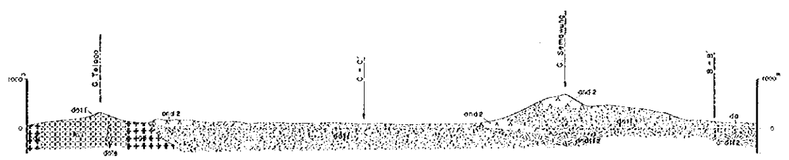

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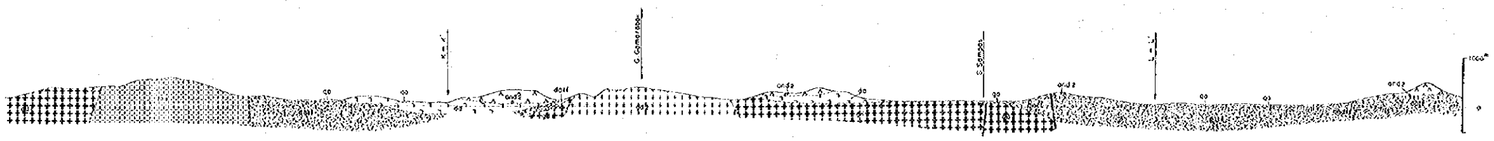

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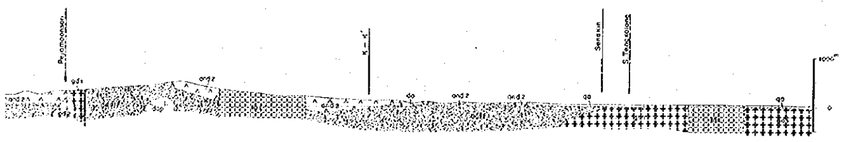

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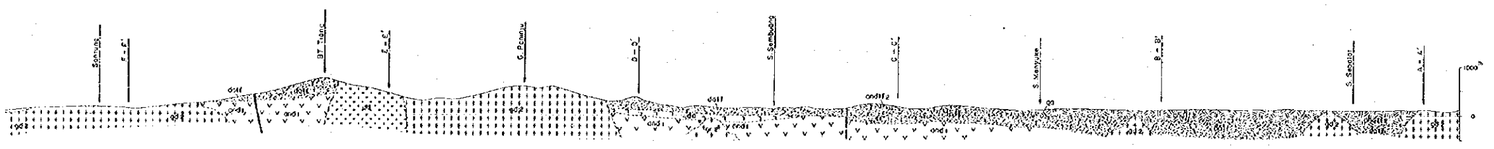

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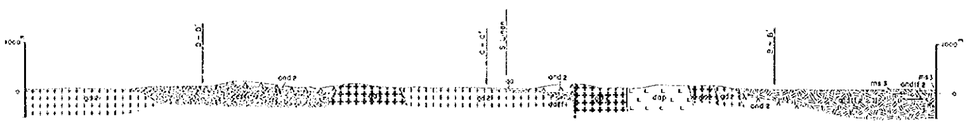

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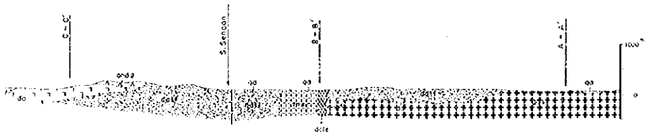

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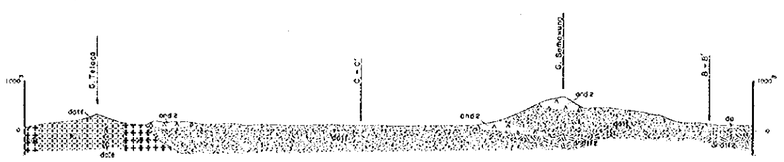


February · 1981

LEGEND

QUATERNARY

Sedimentary Rocks

- qg — Gravel, Sand
- qtl — Talus

TERTIARY

Igneous Rocks

- andz — Andesite dyke
- qpz — Quartz porphyry 2
- do — Diorite dyke
- gd 4 — Granodiorite 4
- dole — Doterite dyke
- qp 1 — Quartz porphyry 1
- altrh — Altered felsic rock
- tn 2 — Sirih Tonalite
- tn 1 — Bonyi Tonalite
- ggb — G.Pondon Quartz gabbro

Serantok Formation

- tf — Dacitic pyroclastic rock
- tbr — Dacitic tuffbreccia
- dap — Serantok Dacite

CRETACEOUS

- gr 2 — Granite 2
- gr 1 — Granite 1
- qd — Tiang Quartz diorite
- gd 3 — G.Selantar Granodiorite
- gd 2 — G.Raya Granodiorite
- gd 1 — G.Sebiawak Granodiorite

JURASSIC – TRIASSIC

Belango Formation

- ms 3 — Red mudstone
- andtf 2 — Andesitic pyroclastic rock
- ard 2 — Andesite 2 and grey mudstone
- dstf — Dacitic pyroclastic rock
- do — Dacite

Jirak Formation

- css — Coarse sandstone
- ms 2 — Mudstone 2
- andtf 1 — Andesitic pyroclastic rock
- and 1 — Andesite 1
- cgl — Conglomerate

Bungkoyang Group

- sms — Sungaibelung Formation (Alternating bed of sandstone siltstone and mudstone) (※ Fossil)
- ss — Riampelaya Formation (Sandstone)
- ms 1 — Kalung Formation (Black shale)
- acff — Banan Formation (Acidic tuff)
- tfss — Banan Formation (Tuffaceous sandstone)

Fault confirmed

Fault inferred

INDEX MAP

PL. 3-1

PL. 3-2

PL. 3-3

BENGKAYANG

SEBALAU

35 A

KALIMANTAN BARAT

KALIMANTAN BARAT

SABALANTAU

BENGKAYANG

SIBEN MINE

PL. 3-1

METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
DIRECTORATE OF MINERAL RESOURCES
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

MAP OF RELATIONS BETWEEN GEOLOGICAL STRUCTURE AND MINERALIZATION

Scale 1:50,000

0 1 2 3 4Km

February · 1981

SEBALAU

35 A

HELAI 10/VI-1 KALIMANTAN BARAT

35A

HELAI 10/VI-2

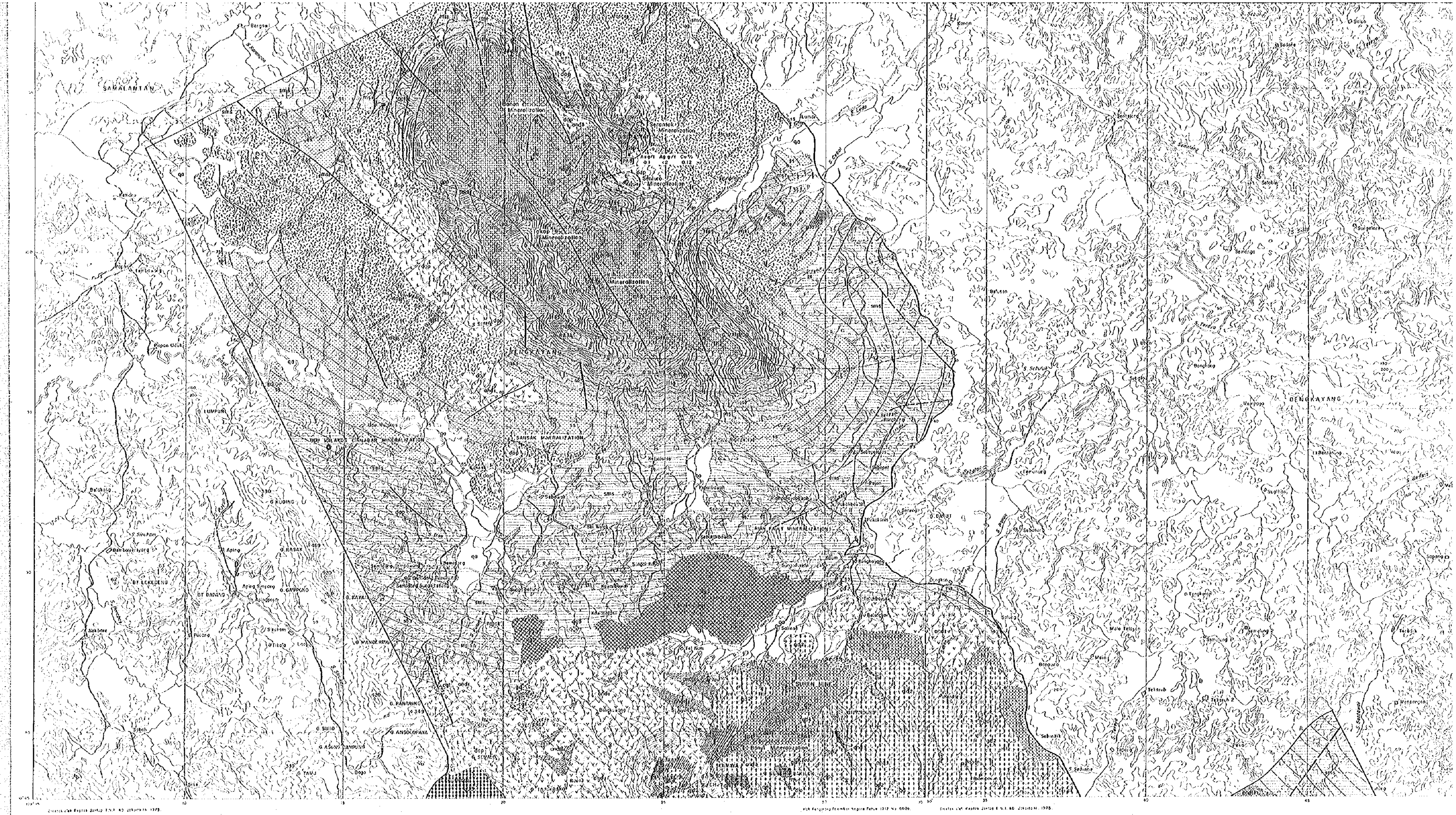
BENGKAYANG

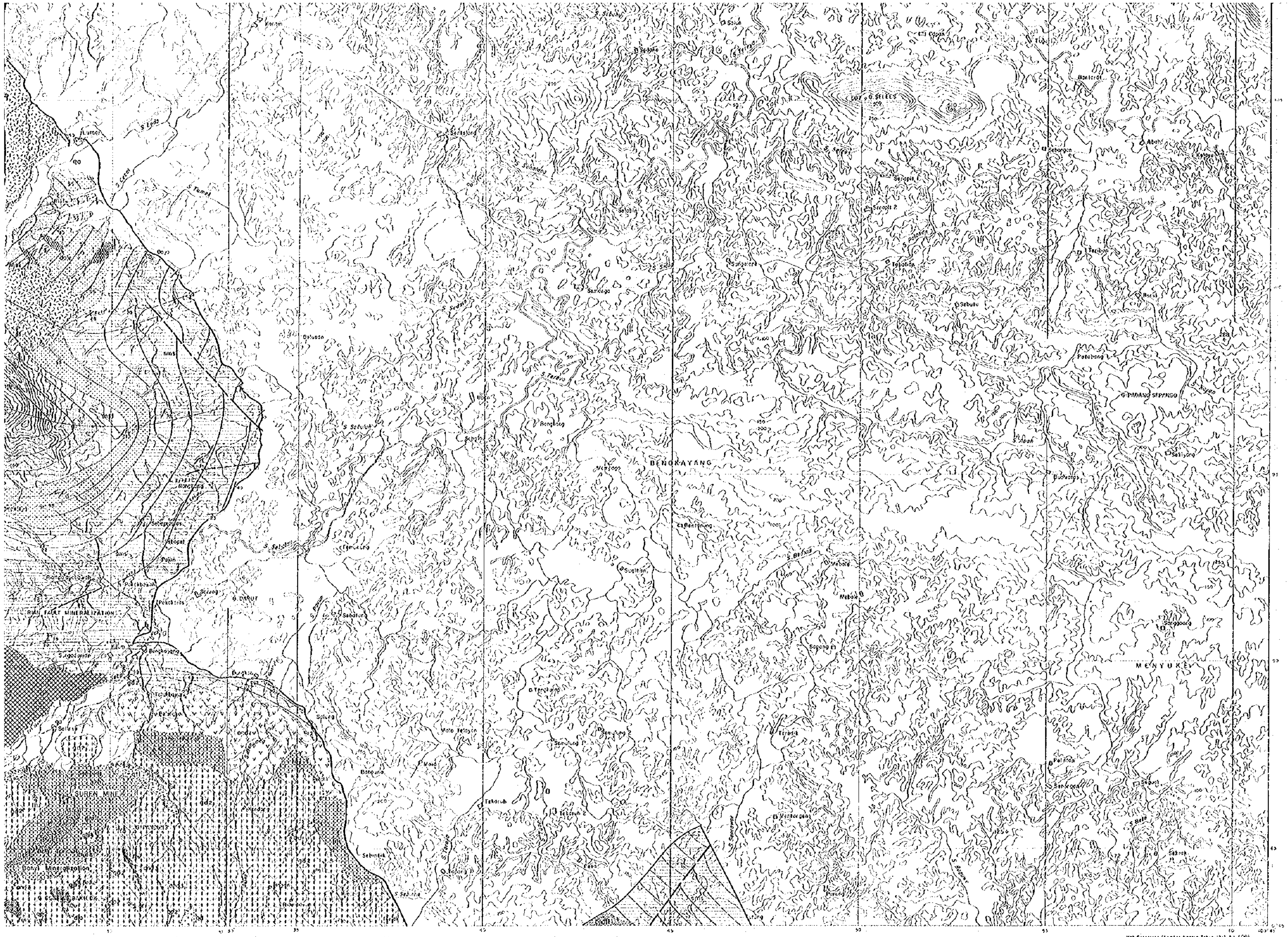
MEMYUKE

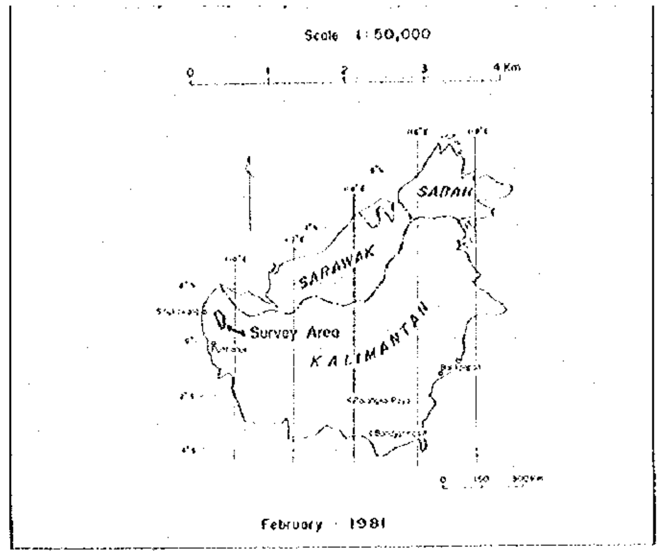
NW-SE FAULT MINERALIZATION

LEGEND

	Sedimentary Rocks		Igneous Rocks
QUATERNARY	qc Gravel, Sand		
	qtl Talus		
TERTIARY		dyd 3	Andesite dyke
		qp 2	Quartz porphyry 2
		dio	Diorite dyke
		gd 4	Granodiorite 4
		dole	Dolerite dyke
		qp 1	Quartz porphyry 1
		altn	Altered felsic rock
	Seratok Formation	tn 2	Sirih Tonalite
	tf Dacitic pyroclastic rock	tn 1	Banyi Tonalite
	tbr Dacitic tuffbreccia	gab	G.Pandan Quartz gabbro
	dap Seratok Dacite		
CRETACEOUS		gr 2	Granite 2
		gr 1	Granite 1
		qt	Tiang Quartz diorite
		gd 3	G.Selantar Granodiorite
		gd 2	G.Raya Grenodiorite
		gd 4	G.Sebiawak Grenodiorite
	Belongo Formation		
	ms 3 Red mudstone		
	andstz Andesitic pyroclastic rock		
	and 2 Andesite 2 and grey mudstone		
	dctt Dacitic pyroclastic rock		
	do Dacite		
IC ~ JURASSIC	Jirak Formation		
	ss 3 Coarse sandstone		
	ms 2 Mudstone 2		
	andtf Andesitic pyroclastic rock		
	and 1 Andesite 1		


SAMALANTAN
BENGKAYANG
Bonon Mineralization
Serantek Mineralization
Senluco Mineralization
Tokop Mineralization
Sirih Mineralization
UDU MALAKOS CINNABAR MINERALIZATION
SANSAK MINERALIZATION
RIAN FAULT MINERALIZATIONS
SUREN MINE
Bonyi Mineralization
G. LUMPUR
G. KUDING
G. RASAK
G. GAMPAYO
G. KAYAN
G. MANDERING
G. PANARING
G. ANSOLOPAYA
G. ASUNG CANDUNG
G. TAMU
BT. LEKEDENG
BT. DADANG
G. DARUT
Popan Udus
Semidang
Sebangkau
Tekarub
Sebunig





LEGEND

Sedimentary Rocks | **Igneous Rocks**

QUATERNARY

- qa — Gravel, Sand
- qtl — Talus

TERTIARY

Serantak Formation

- tf — Dacitic pyroclastic rock
- tbr — Dacitic tuffbreccia
- dap — Serantak Dacite

Igneous Rocks

- and 3 — Andesite dyke
- qp 2 — Quartz porphyry 2
- dio — Diorite dyke
- gd 4 — Granodiorite 4
- dole — Dolerite dyke
- qp 1 — Quartz porphyry 1
- alfm — Altered felsic rock
- tn 2 — Sirih Tonalite
- tn 1 — Banyi Tonalite
- qgb — G.Pandan Quartz gabbro

CRETACEOUS

- gr 2 — Granite 2
- gr 1 — Granite 1
- qd — Tiang Quartz diorite
- gd 3 — G.Selantar Granodiorite
- gd 2 — G.Raya Granodiorite
- gd 1 — G.Sebiawak Granodiorite

TRIASSIC — JURASSIC

Belango Formation

- ms 3 — Red mudstone
- andtf 2 — Andesitic pyroclastic rock
- and 2 — Andesite 2 and gray mudstone
- datf — Dacitic pyroclastic rock
- da — Dacite

Jirak Formation

- css — Coarse sandstone
- ms 2 — Mudstone 2
- andtf 1 — Andesitic pyroclastic rock
- and 1 — Andesite 1
- cgl — Conglomerate

Bungkayang Group

- sms — Sungaibetung Formation (Alternating bed of sandstone siltstone and mudstone) (& Fossil)
- ss — Riampelaya Formation (Sandstone)
- ms 1 — Kalung Formation (Black shale)
- actf — Banan Formation (Acidic tuff)
- tfss — Banan Formation (Tuffaceous sandstone)

Geological Structure

- Strike line and dip of bedding in sedimentary rocks
- Anticlinal axis
- Synclinal axis
- Fault confirmed
- Fault inferred

Mineralization

- Metalliferous vein, Ore bed, Quartz vein (confirmed/inferred)
- Disseminated mineralization
- Cinnabar mineralization
- Tourmalinization zone
- Silicified zone
- Manganese mineralization

INDEX MAP

PL. 3-1

PL. 3-2

PL. 3-3

KARANGAN

DARIT

35A

KALIMANTAN BARAT

KALIMANTAN BARAT

Sebumbung Mineralization

TERTUTUP AWAN

SELAKEAN MINERALIZATION

Sengoo Silicified Zone

Emabo Pr Co Mineralization

Sahot Mineralization

M E N J A L I N

PL.3-2

METAL MINING AGENCY OF JAPAN
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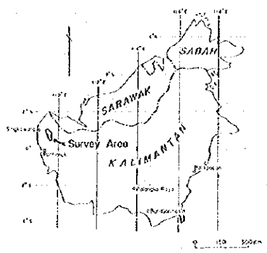
MAP OF RELATIONS BETWEEN GEOLOGICAL STRUCTURE AND MINERALIZATION

Scale 1:50,000

0 1 2 3 4Km



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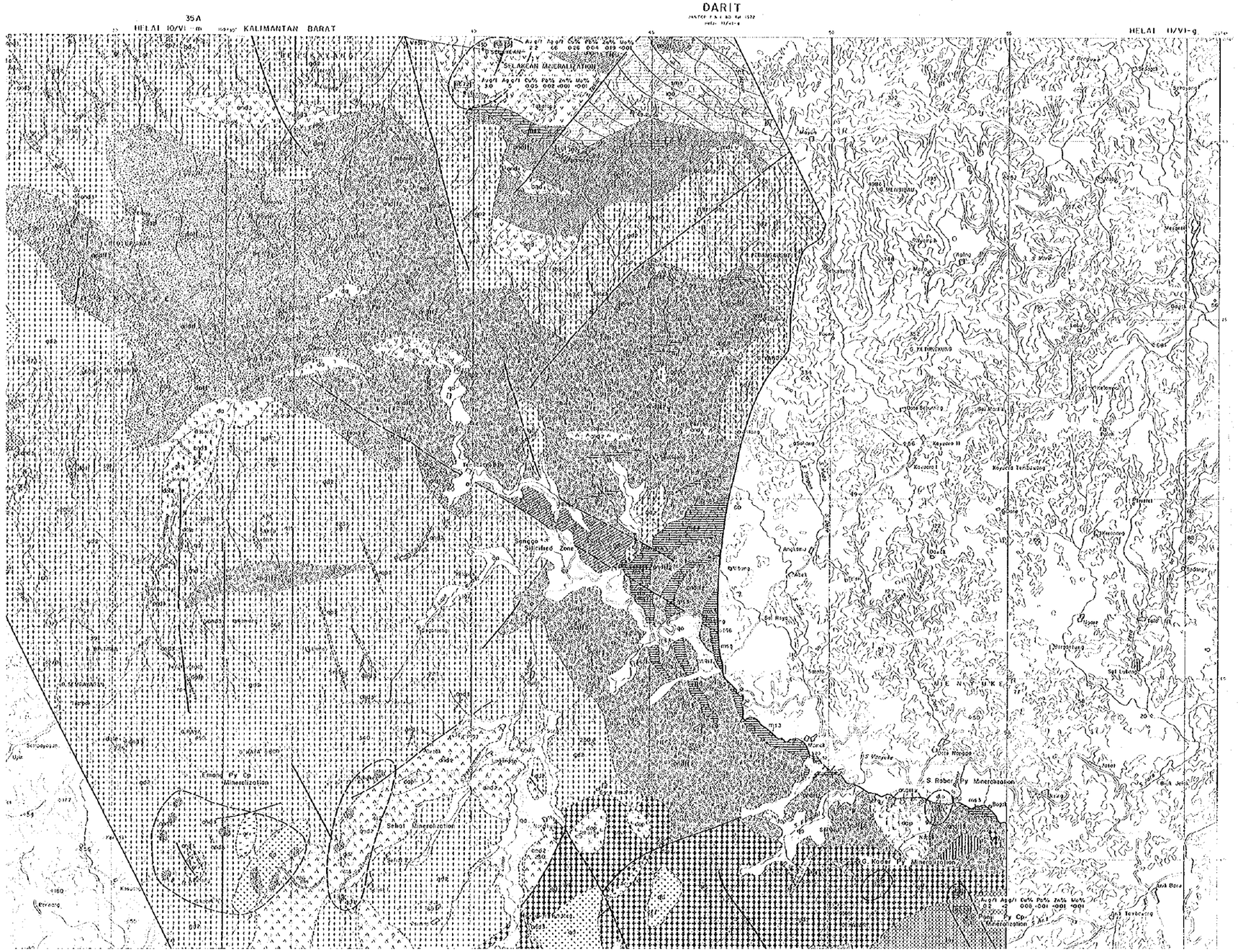
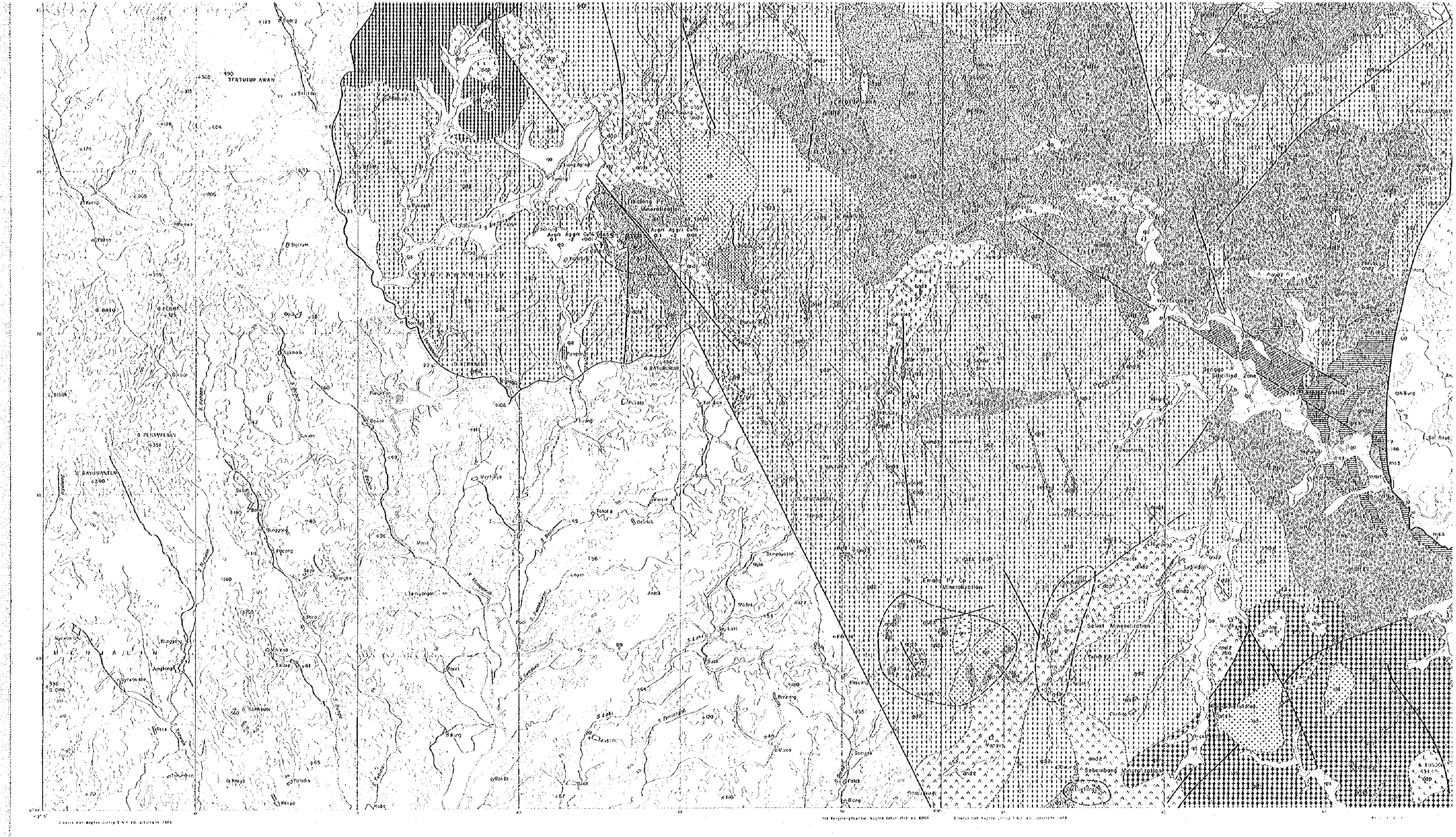


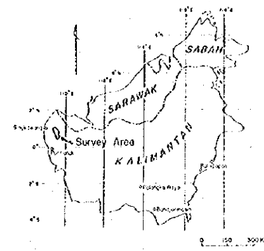
LEGEND

		Sedimentary Rocks	Igneous Rocks
QUATERNARY		qs Gravel, Sand	
		qtl Talus	
TERTIARY	Seronton Formation	tf Dacitic pyroclastic rock	and 3 Andesite dyke
		tbr Dacitic tuffbreccia	qp 2 Quartz porphyry 2
		dap Seronton Dacite	dio Diorite dyke
			gd 4 Granodiorite 4
			dole Dolerite dyke
			qp 1 Quartz porphyry 1
			altm Altered felsic rock
			tn 2 Sirih Tonalite
			tn 1 Banyi Tonalite
			gab G.Pandan Quartz gabbro
CRETACEOUS			gr 2 Granite 2
			gr 1 Granite 1
			qd Tiang Quartz diorite
			gd 3 G.Selantor Granodiorite
			gd 2 G.Raya Granodiorite
			gd 1 G.Sebiawok Granodiorite
JURASSIC ~	Belongo Formation	ms 3 Red mudstone	
		and 2 Andesitic pyroclastic rock	
		and 2 Andesite 2 and gray mudstone	
		dotf Dacitic pyroclastic rock	
		do Dacite	
	Sirok Formation	css Coarse sandstone	
		ms 2 Mudstone 2	
		and 1 Andesitic pyroclastic rock	
		and 1 Andesite 1	



TERTUTUP AWAN
G. BATU
G. PERIOT
G. PENAYPEYAN
G. KAYUVANTEN
M E N J A L I N
G. SAPATUN
G. KERAWANG
G. BATURURUK
Tikalong Py Mineralization
Ag g/t Ag g/t Cu%
Senggo Silicified Zone
Emong Py Cp Mineralization
Seliat Mineralization
Sebarnbang Mineralization
S. Salo
S. Laki
S. Temiorgak
S. Sempuro

Scale 1:50,000



February - 1981

LEGEND

Sedimentary Rocks | **Igneous Rocks**

QUATERNARY
- Qg — Gravel, Sand
- Qtl — Talus

TERTIARY
- Serantak Formation
  - Tf — Dacitic pyroclastic rock
  - Tbr — Dacitic tuffbreccia
  - dap — Serantak Dacite
- andα3 — Andesitic dyke
- qpr2 — Quartz porphyry 2
- dio — Diorite dyke
- gdr1 — Granodiorite 1
- dole — Dolerite dyke
- qpr1 — Quartz porphyry 1
- altfs — Altered felsic rock
- tn2 — Sirih Tonalite
- tn1 — Danyi Tonalite
- qpb — G.Pandan Quartz gabbro

CRETACEOUS
- gr2 — Granite 2
- gr1 — Granite 1
- qd — Tiang Quartz diorite
- gds — G.Selantor Granodiorite
- gdr — G.Royo Granodiorite
- gdb — G.Sebiawok Granodiorite

TRIASSIC ~ JURASSIC

Belango Formation
- ms3 — Red mudstone
- andtf2 — Andesitic pyroclastic rock
- and2 — Andesite 2 and gray mudstone
- dotf — Dacitic pyroclastic rock
- da — Dacite

Jirak Formation
- css — Coarse sandstone
- ms2 — Mudstone 2
- andtf1 — Andesitic pyroclastic rock
- and1 — Andesite 1
- cgl — Conglomerate

Bungkayang Group
- sms — Singobetang Formation (Alternating bed of sandstone sdistone and mudstone) (⊕ Fossil)
- ss — Rompalayo Formation (Sandstone)
- ms1 — Kelang Formation (Black shale)
- dstf — Bonan Formation (Acidic tuff)
- tfss — Bonan Formation (Tuffaceous sandstone)

Geological Structure
- Strike line and dip of bedding in sedimentary rocks
- Anticlinal axis
- Synclinal axis
- Fault confirmed
- Fault inferred

Mineralization
- Metalliferous vein, Ore bed, Quartz vein (confirmed/inferred)
- Disseminated mineralization
- Cinnabar mineralization
- Tourmalinization zone
- Silicified zone
- Manganese mineralization

INDEX MAP

PL.3-1

PL.3-2

PL.3-3

MANDOR

PAHUMAN

35 A

KALIMANTAN BARAT

KALIMANTAN BARAT

KARANGAN

SENGAH TEMILA

PL. 3-3

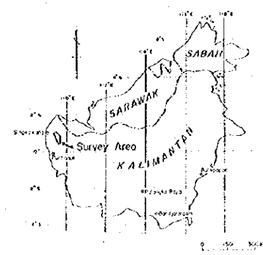
METAL MINING AGENCY OF JAPAN
JAPAN INTERNATIONAL COOPERATION AGENCY
DIRECTORATE OF MINERAL RESOURCES
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

MAP OF RELATIONS BETWEEN GEOLOGICAL STRUCTURE AND MINERALIZATION

Scale 1:50,000

0 1 2 3 4Km



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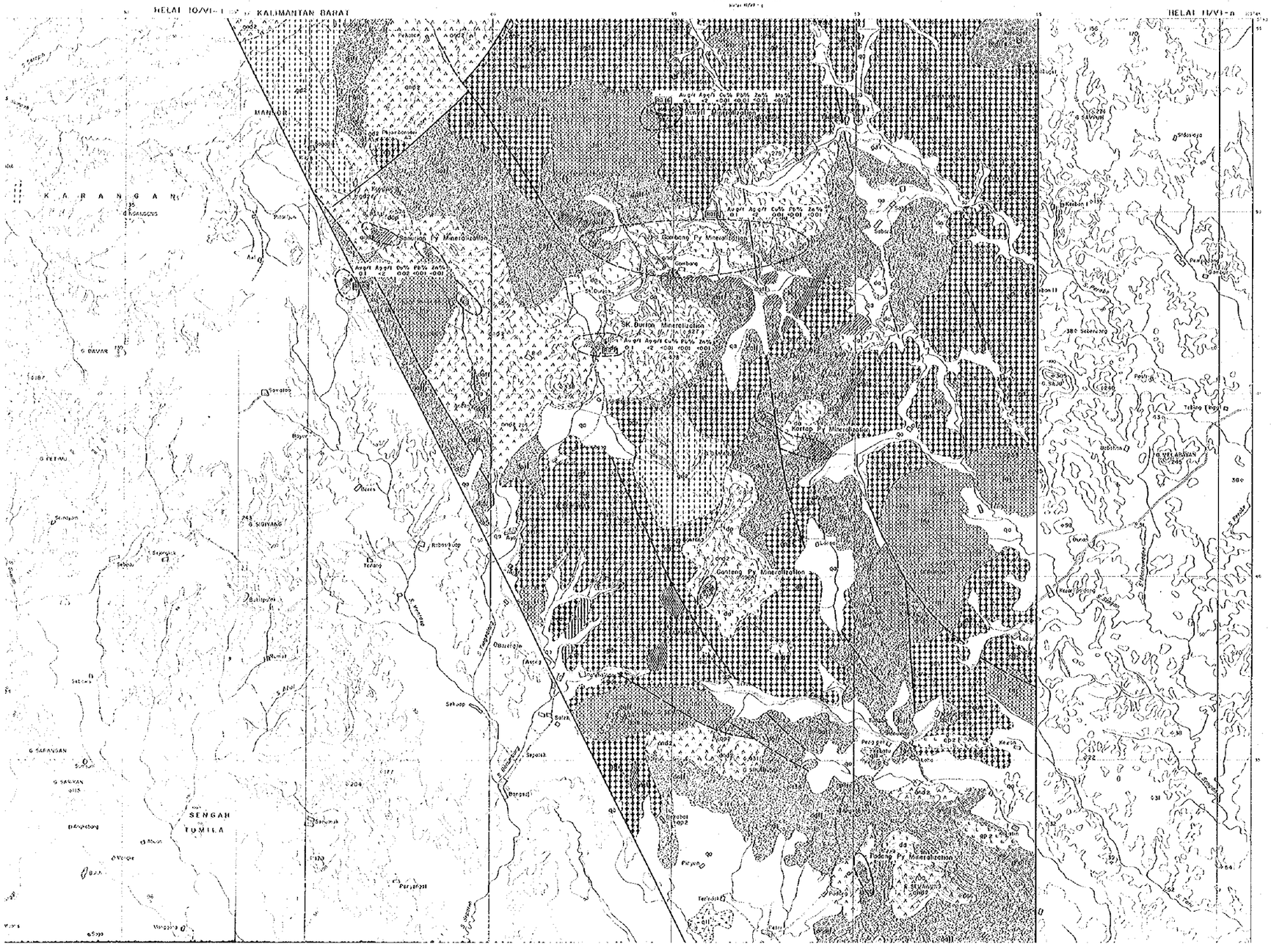


LEGEND

Sedimentary Rocks

QUATERNARY
- qs Gravel, Sand
- qtl Talus

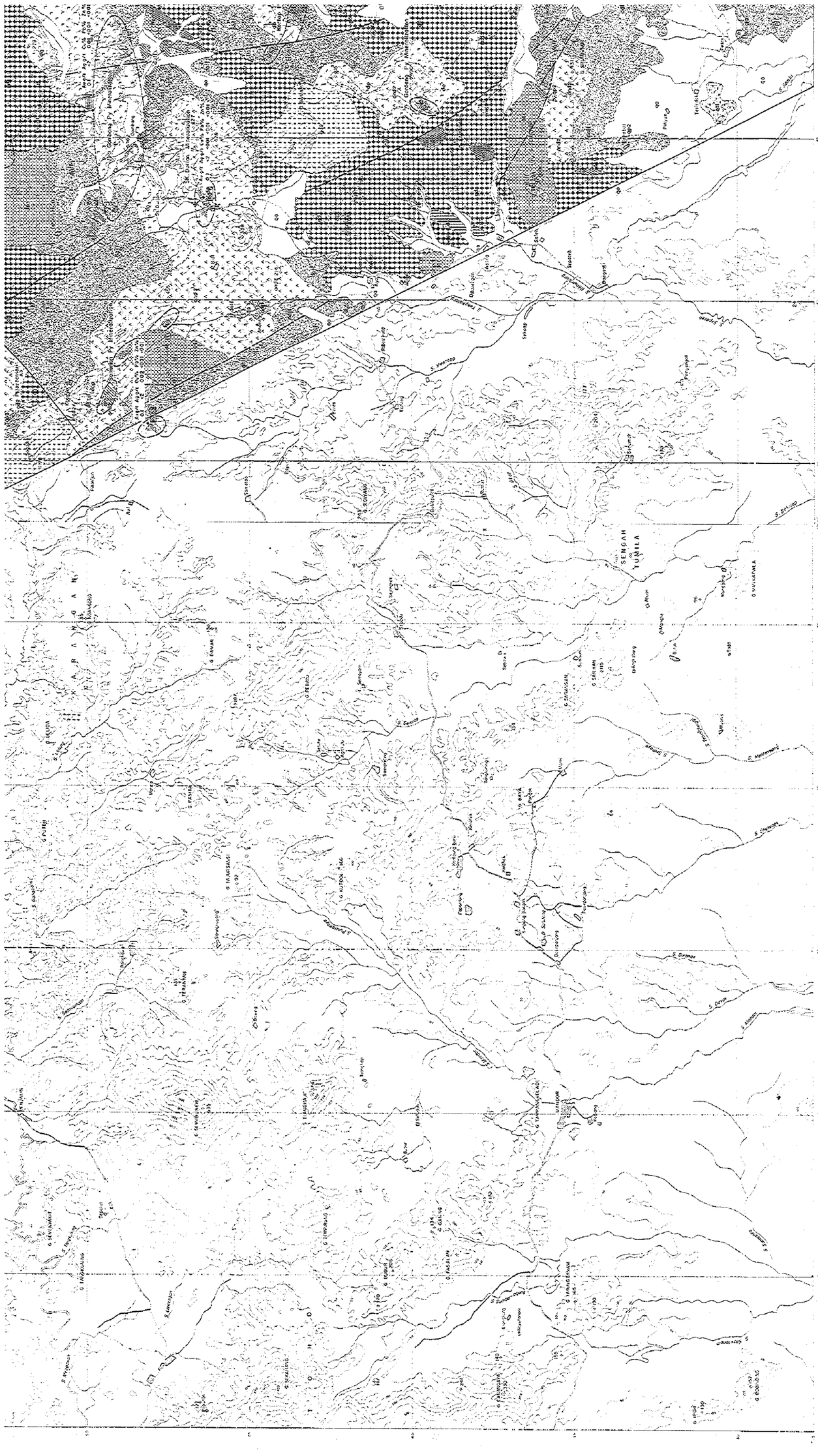
TERTIARY
Serantak Formation
- dt Dacitic pyroclastic rock
- dtbr Dacitic tuffbreccia
- dsp Serantak Dacite

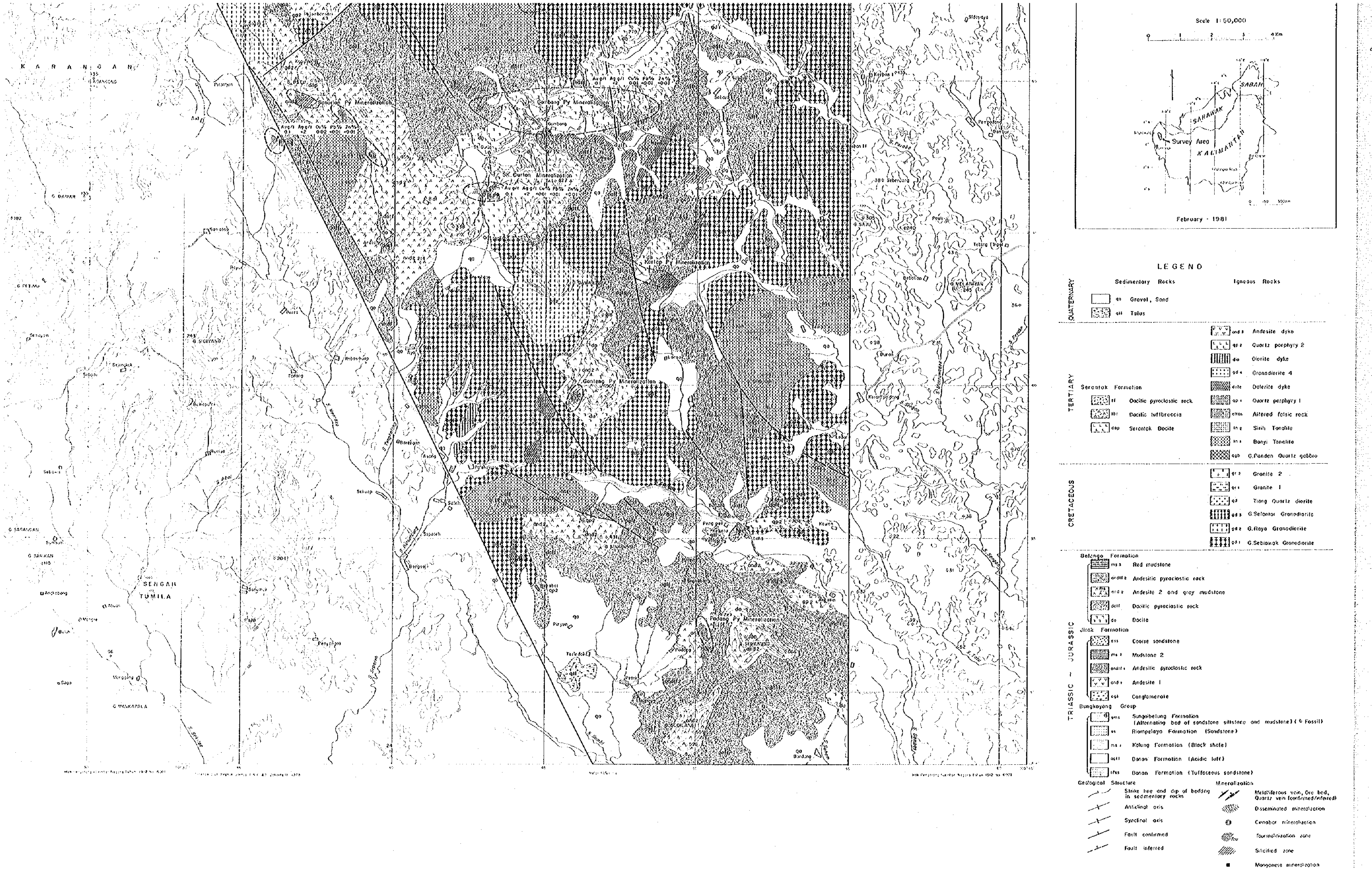
CRETACEOUS
Belonga Formation
- ms 3 Red mudstone
- and t 2 Andesitic pyroclastic rock
- and 2 Andesite 2 and grey mudstone
- dstf Dacitic pyroclastic rock
- ds Dacite

JURASSIC ~
Jirak Formation
- ss Coarse sandstone
- ms 2 Mudstone 2
- and t 1 Andesitic pyroclastic rock
- and 1 Andesite 1

Igneous Rocks

- and 3 Andesite dyke
- qp 2 Quartz porphyry 2
- do Diorite dyke
- gd 4 Granodiorite 4
- dole Dolerite dyke
- qp 1 Quartz porphyry 1
- altfs Altered felsic rock
- tn 2 Sirih Tonalite
- tn 1 Banyi Tonalite
- qgb G.Pandan Quartz gabbro
- gr 2 Granite 2
- gr 1 Granite 1
- qd Tiang Quartz diorite
- gd 3 G.Selantor Granodiorite
- gd 2 G.Raya Granodiorite
- gd 1 G.Sebiowek Granodiorite





K A R A N G A N
G. DAMAR
G. SIGIYANG
SENGAH
TUMILA
G. SARANGAN
G. SARIKAN
G. MANKAPALA
Sanurian Py Mineralization
Gombang Py Mineralization
SK. Durian Mineralization
Kartap Py Mineralization
Ganteng Py Mineralization
Padang Py Mineralization
Au g/t Ag g/t Cu% Pb% Zn%
S. Perabe
Seberang
G. SAJU
G. WELARAYAN
Duran
Scale 1:50,000
0 1 2 3 4 Km
SABAH
SARAWAK
Survey Area
KALIMANTAN
February - 1981
LEGEND
Sedimentary Rocks
Igneous Rocks
QUATERNARY
qa Gravel, Sand
qtl Talus
TERTIARY
and 3 Andesite dyke
qp 2 Quartz porphyry 2
dio Diorite dyke
gd 4 Granodiorite 4
dole Dolerite dyke
qp 1 Quartz porphyry 1
alffe Altered felsic rock
tn 2 Sirih Tonalite
tn 1 Banyi Tonalite
qgb G.Pandan Quartz gabbro
Serantok Formation
tf Dacitic pyroclastic rock
tbr Dacitic tuffbreccia
dap Serantok Dacite
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gr 1 Granite 1
qd Tiang Quartz diorite
gd 3 G.Selantar Granodiorite
gd 2 G.Raya Granodiorite
gd 1 G.Sebiawak Granodiorite
TRIASSIC – JURASSIC
Belango Formation
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andtf 2 Andesitic pyroclastic rock
and 2 Andesite 2 and gray mudstone
datf Dacitic pyroclastic rock
da Dacite
Jirak Formation
css Coarse sandstone
ms 2 Mudstone 2
andtf 1 Andesitic pyroclastic rock
and 1 Andesite 1
cgl Conglomerate
Bungkayang Group
sms Sungaibetung Formation (Alternating bed of sandstone siltstone and mudstone) (Fossil)
ss Riampelaya Formation (Sandstone)
ms 1 Kalung Formation (Black shale)
actf Banan Formation (Acidic tuff)
tfss Banan Formation (Tuffaceous sandstone)
Geological Structure
Strike line and dip of bedding in sedimentary rocks
Anticlinal axis
Synclinal axis
Fault confirmed
Fault inferred
Mineralization
Metalliferous vein, Ore bed, Quartz vein (confirmed/inferred)
Disseminated mineralization
Cinnabar mineralization
Tourmalinization zone
Silicified zone
Manganese mineralization

BENGKAYANG

35 A

SEBALAU

KALIMANTAN BARAT

KALIMANTAN BARAT

SAMALANTAN

BENGKAYANG

BENGKAYANG

Sebalau

Sebalau

Sebalau

PL.4-1

METAL MINING AGENCY OF JAPAN
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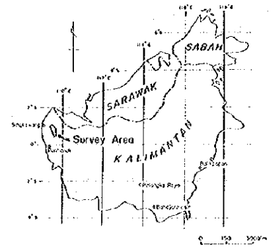
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

LOCATION MAP OF GEOCHEMICAL SAMPLES AND PANNING SAMPLES

Scale 1:50,000

0 1 2 3 4Km



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PL.4-1
PL.4-2
PL.4-3

LEGEND

● SA-7 No. of Sample

SEBALAU

35 A

HELAI 10/VI-1 KALIMANTAN BARAT

35A

HELAI 11/VI-9

BENGKAYANG

MENYUKE

KARANGAN

DARIT

35A

HELAI 10/VI — m

KALIMANTAN BARAT

KALIMANTAN BARAT

TERTUTUP AWAN

TERTUTUP AWAN

TERTUTUP AWAN

M E N Y U K E

M E M P A W A H U L U

G. PERAWANG

G. BATUSURON

G. SEVEMANAN

G. PENGKYANG

G. PEDANGSUSUT

G. BATU

G. PENGPEGAN

G. KAYUMANTEK

G. SAMATUNI

G. SAKIU

G. PAKIU

G. BAYA

G. TUNGGAL

Sanggau

Mengun

PL.4-2

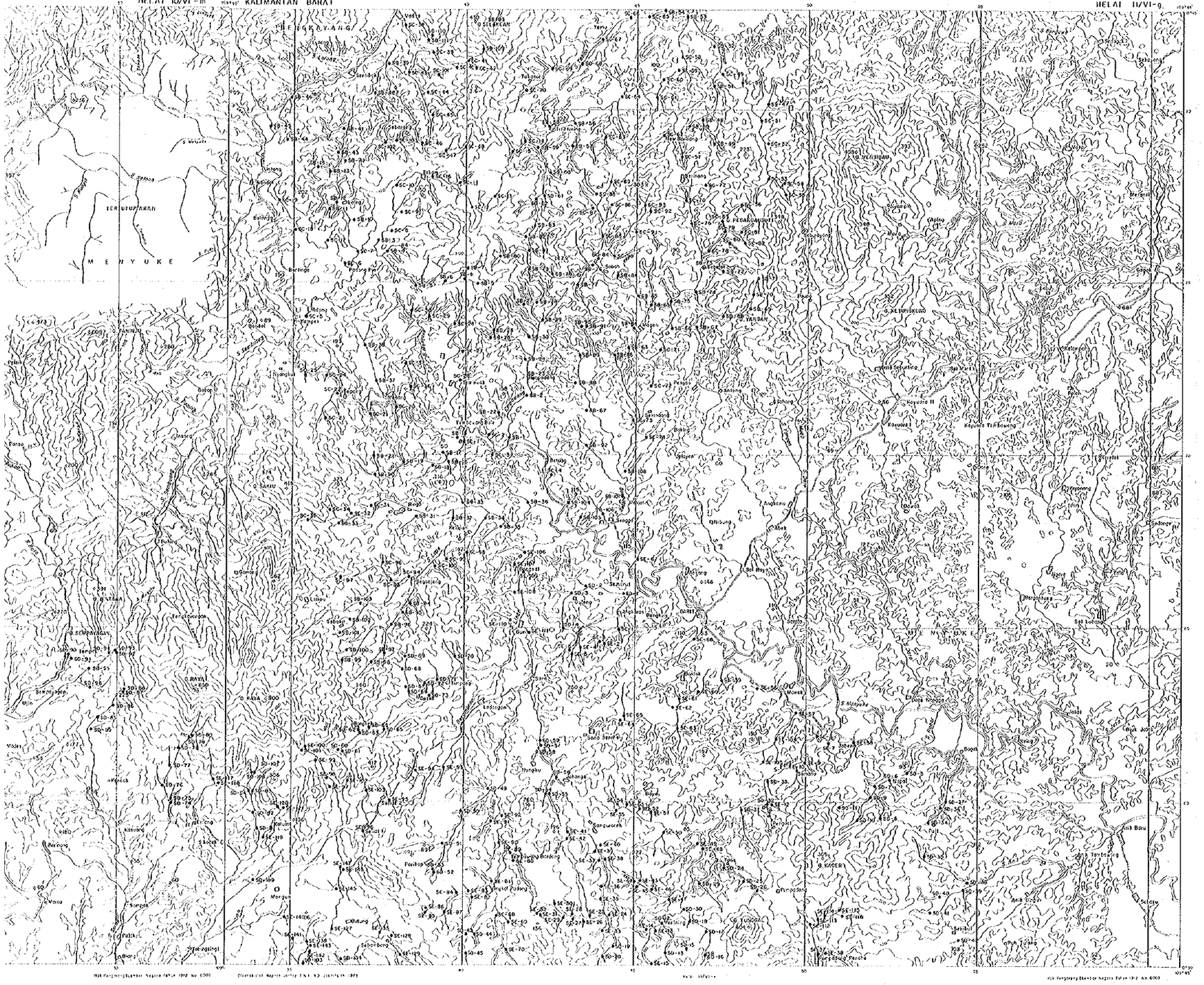
DARIT

35A

HELAI 10/VI - m

KALIMANTAN BARAT

HELAI 11/VI-9



METAL MINING AGENCY OF JAPAN

JAPAN INTERNATIONAL COOPERATION AGENCY

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DIRECTORATE GENERAL OF MINES

MINISTRY OF MINES AND ENERGY

REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

LOCATION MAP OF GEOCHEMICAL SAMPLES AND PANNING SAMPLES

Scale 1:50,000

0 1 2 3 4Km

February - 1981

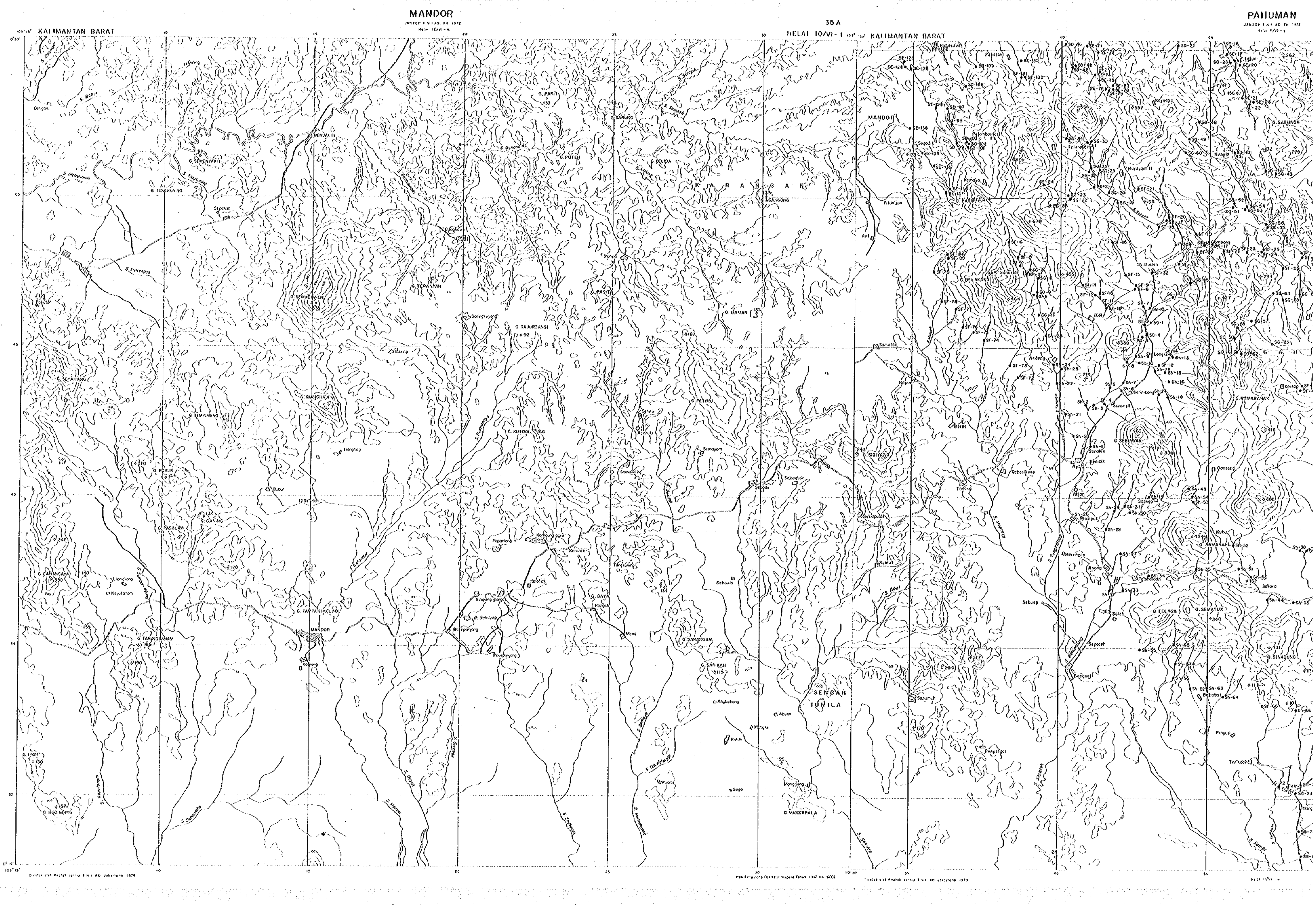
PL.4-1

PL.4-2

PL.4-3

LEGEND

●SA-7 No. of Sample



MANDOR
35 A
HELAI 10/VI-I
KALIMANTAN BARAT
PAHUMAN
S. Bubut
Dengan
S. Metrpawah
G. TANGKUNING
S. Tangkuning
G. SEMENYAKIT
SENJALIN
Sepokat
S. Lancengan
G. SEMUBUAEH
G. SEKAHANG
G. TEMPIRUNG
G. SIANGHAJI
G. BUBUR
G. GANING
G. PASALAM
G. CANANGAYA
Liongtang
Kayutanam
G. TAYPANCKELAD
MANDOR
G. TARINGTANAM
G. IPOH
G. BODNDING
S. Kayutanam
S. Sampata
S. Mandor
S. Dayak
G. PARIT
G. SARUNG
S. Sumpah
G. PUTEH
G. SELIDA
K A R A N G A N
AGANGONG
G. TERANYAN
G. PASITA
G. DAMAR
G. TAJURSANSI
G. PETIMU
G. KUTOOL
Semayom
S. Puntianaya
Kampung baru
Kerohek
Simpang pongok
Bosponjang
G. BAYA
Mamt
G. SARANGAN
G. SARIKAN
SENGAH TUMILA
Angkabong
Abuan
Mangala
Soga
Manggong
G. MANKAPALA
S. Engkabok
S. Sengai
S. Mentonyong
S. Tebahtinggi
G. SIGIYANG
Sejagtok
Bukitpulai
Pilonljun
Somalso
Bayur
Beres
Tonsra
Rebasitoap
Sajumuk
Pengsrgal
S. Abot
S. Sekilee
G. BATU
G. BELAKANG
Senurian
Telurujan II
G. SATUNOK
G. BAYARABAK
G. SEBIAWAK
Perol
Seranpi
Serinbong
Kerick
Ayo
Allon
Sampuk
Sanokin
G. SAVARAPE
Kubu
Sekoro
G. TELAGA
G. SEVATUX
G. SINABUNG
Salen
Sepatah
Bongsgil
S. Tangkatdong
S. Bahumbang
Sekuap
Betabat
Pinyuh
Petni
S. Sepateh
S. Sambi
Gonteng

PL.4-3

METAL MINING AGENCY OF JAPAN
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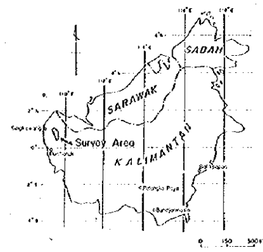
REPUBLIC OF INDONESIA

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

LOCATION MAP OF GEOCHEMICAL SAMPLES AND PANNING SAMPLES

Scale 1:50,000

0 1 2 3 4Km



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PAHUMAN

35A

RELAI 10/VI-1 KALIMANTAN BARAT

RELAI 11/VI-B

PL.4-1
PL.4-2
PL.4-3

LEGEND

● SA-7 No. of Sample

BENGKAYANG

35 A

SEBALAU

KALIMANTAN BARAT

HELAI 10/VI-E KALIMANTAN BARAT

SAMALANTAN

BENGKAYANG

RUDING

SEBALAU

BENGKAYANG

PL.5-1

METAL MINING AGENCY OF JAPAN
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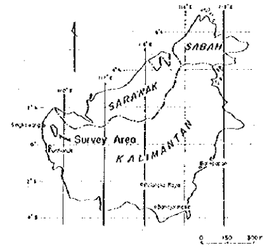
DIRECTORATE GENERAL OF MINES
MINISTRY OF MINES AND ENERGY

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

MAP OF GEOCHEMICAL ASSAY RESNLTS AND GOLD PANNING RESULTS

Scale 1:50,000

0 1 2 3 4 Km



February · 1981

PL.5-1
PL.5-2
PL.5-3

LEGEND

Number of gold grain in stream sediment

(Megascopic determination)

X	0
●	1 ~ 4
●	5 ~ 16
●	17 ~ 69
●	69<

Chemical analysis values of stream sediment

● Mo (P.P.M) / Cu (P.P.M) | Zn (P.P.M) / Pb (P.P.M)

KARANGAN

Survey Thn. a.d. Th 1972
Hasil 1974-II

KALIMANTAN BARAT

35 A

HELAI 10/VI – III

KALIMANTAN BARAT

DARIT

Survey T.N.I. AD Th. 1972
Hasil 1974-II

TERTUTUP AWAN

TERTUTUP AWAN

TERTUTUP AWAN

M E N Y U K E

H E N D R Y A N G

P E N A N J A M

K A N U A N T A N

M E N I A M A N

Digambar oleh Kogtas Zeni T.N.I. AD Jakarta th. 1974

Dicetak oleh Kogtas Zeni T.N.I. AD Jakarta th. 1975

PL.5-2

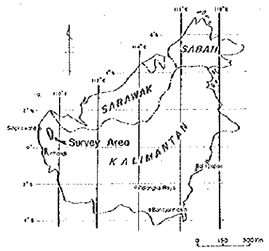
METAL MINING AGENCY OF JAPAN — DIRECTORATE OF MINERAL RESOURCES
JAPAN INTERNATIONAL COOPERATION AGENCY — DIRECTORATE GENERAL OF MINES, MINISTRY OF MINES AND ENERGY

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

MAP OF GEOCHEMICAL ASSAY RESULTS AND GOLD PANNING RESULTS

Scale 1:50,000

0 1 2 3 4Km



February · 1981

PL.5-1
PL.5-2
PL.5-3

LEGEND

Number of gold grain in stream sediment

(Megascopic determination)

X	0
•	1 ~ 4
●	5 ~ 16
●	17 ~ 69
●	69<

Chemical analysis values of stream sediment

$$\bullet \ \frac{\text{Mo(P.P.M)}}{\text{Cu (P.P.M)}} \ \Big| \ \frac{\text{Zn (P.P.M)}}{\text{Pb (P.P.M)}}$$

MANDOR

PAHUMAN

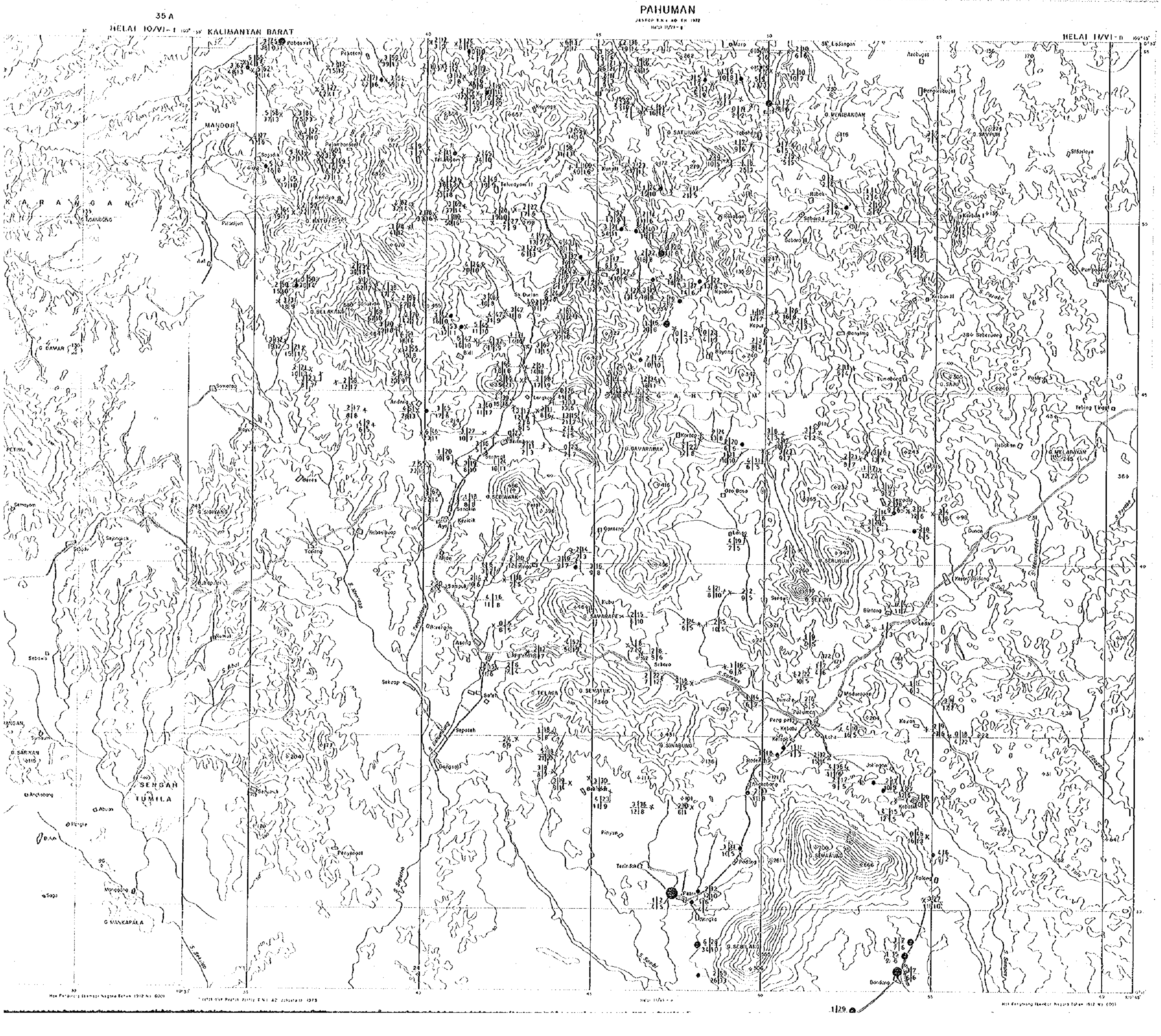
35 A

KALIMANTAN BARAT

KALIMANTAN BARAT

MANDOR

SENBAH TUMILA



PL.5-3

METAL MINING AGENCY OF JAPAN — DIRECTORATE OF MINERAL RESOURCES

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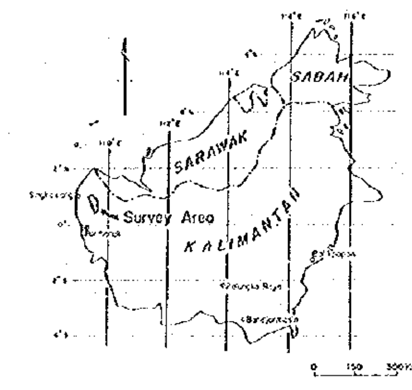
METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

MAP OF GEOCHEMICAL ASSAY RESNLTS AND GOLD PANNING RESULTS

Scale 1:50,000

0 1 2 3 4 Km



February · 1981

PL.5-1
PL.5-2
PL.5-3

L E G E N D

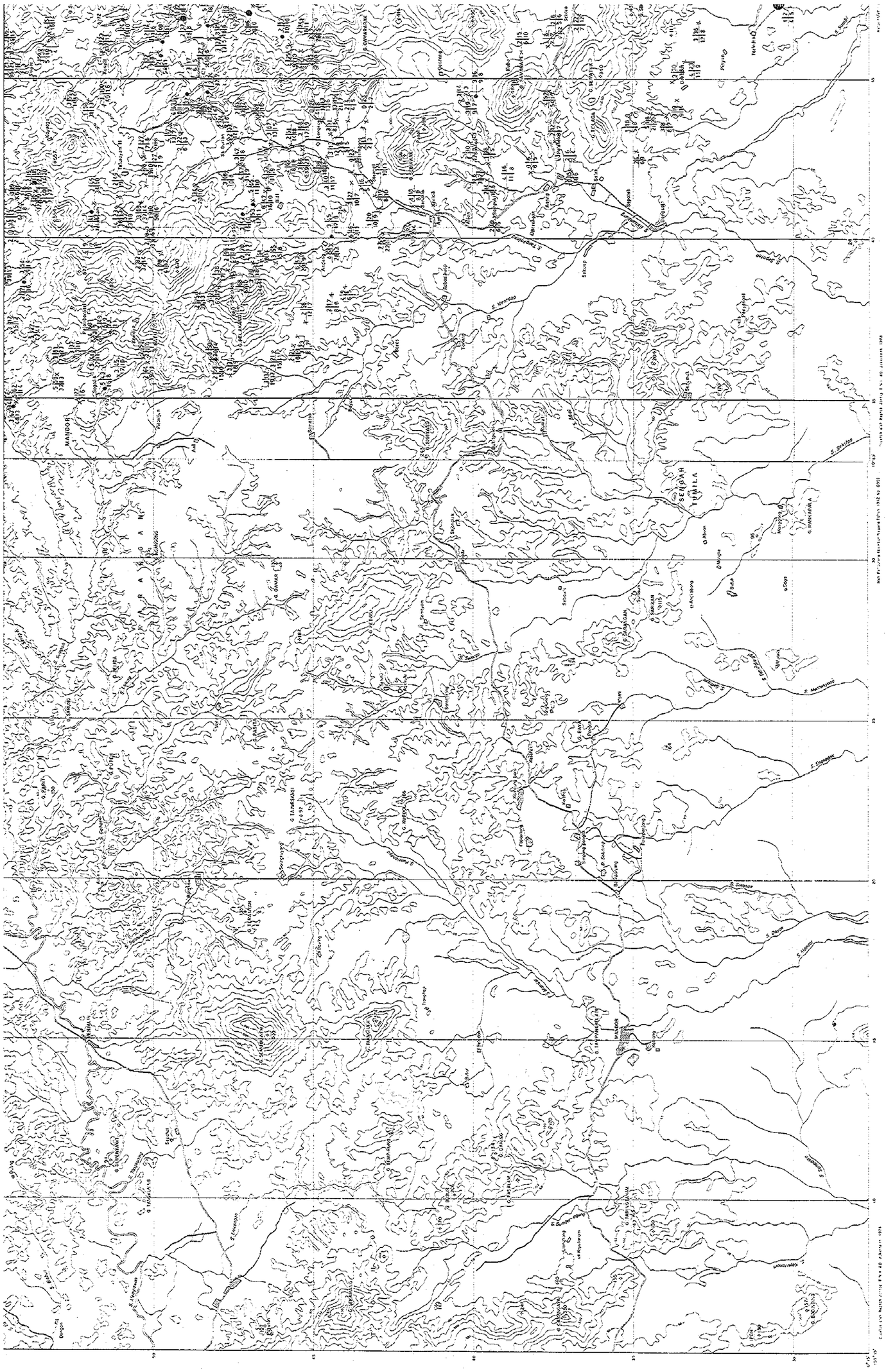
Number of gold grain in stream sediment

(Megascopic determination)

x	0
•	1 ~ 4
●	5 ~ 16
●	17 ~ 69
●	69<

Chemical analysis values of stream sediment

• $\frac{Mo\ (P.P.M)}{Cu\ (P.P.M)}$ | $\frac{Zn\ (P.P.M)}{Pb\ (P.P.M)}$



METAL MINING AGENCY OF JAPAN
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MINISTRY OF MINES AND ENERGY

METALLIC MINERAL EXPLORATION SURVEY IN WEST KALIMANTAN INDONESIA

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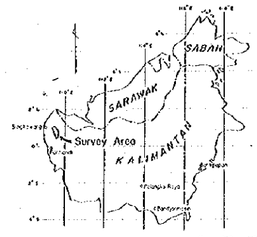
0 1 2 3 4Km



February · 1981

PL.5-1
PL.5-2
PL.5-3

LEGEND

Number of gold grain in stream sediment
(Megoscopic determination)

x	0
•	1 ~ 4
●	5 ~ 16
●	17 ~ 69
●	69<

Chemical analysis values of stream sediment

$\bullet \frac{\text{Mo (P.P.M)}}{\text{Cu (P.P.M)}} \left| \frac{\text{Zn (P.P.M)}}{\text{Pb (P.P.M)}} \right.$

BENGKAYANG

35 A

SEBALAU

KALIMANTAN BARAT

KALIMANTAN BARAT

G. Bawang Obah Antoniobus grea

BENGKAYANG

BENGKAYANG

PL.G-1

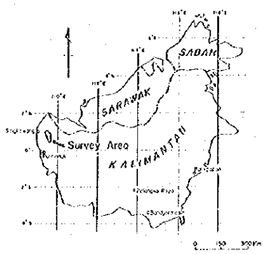
METAL MINING AGENCY OF JAPAN — DIRECTORATE OF MINERAL RESOURCES
JAPAN INTERNATIONAL COOPERATION AGENCY — DIRECTORATE GENERAL OF MINES, MINISTRY OF MINES AND ENERGY

METALLIC MINERAL EXPLORATION SURVEY
IN
WEST KALIMANTAN INDONESIA

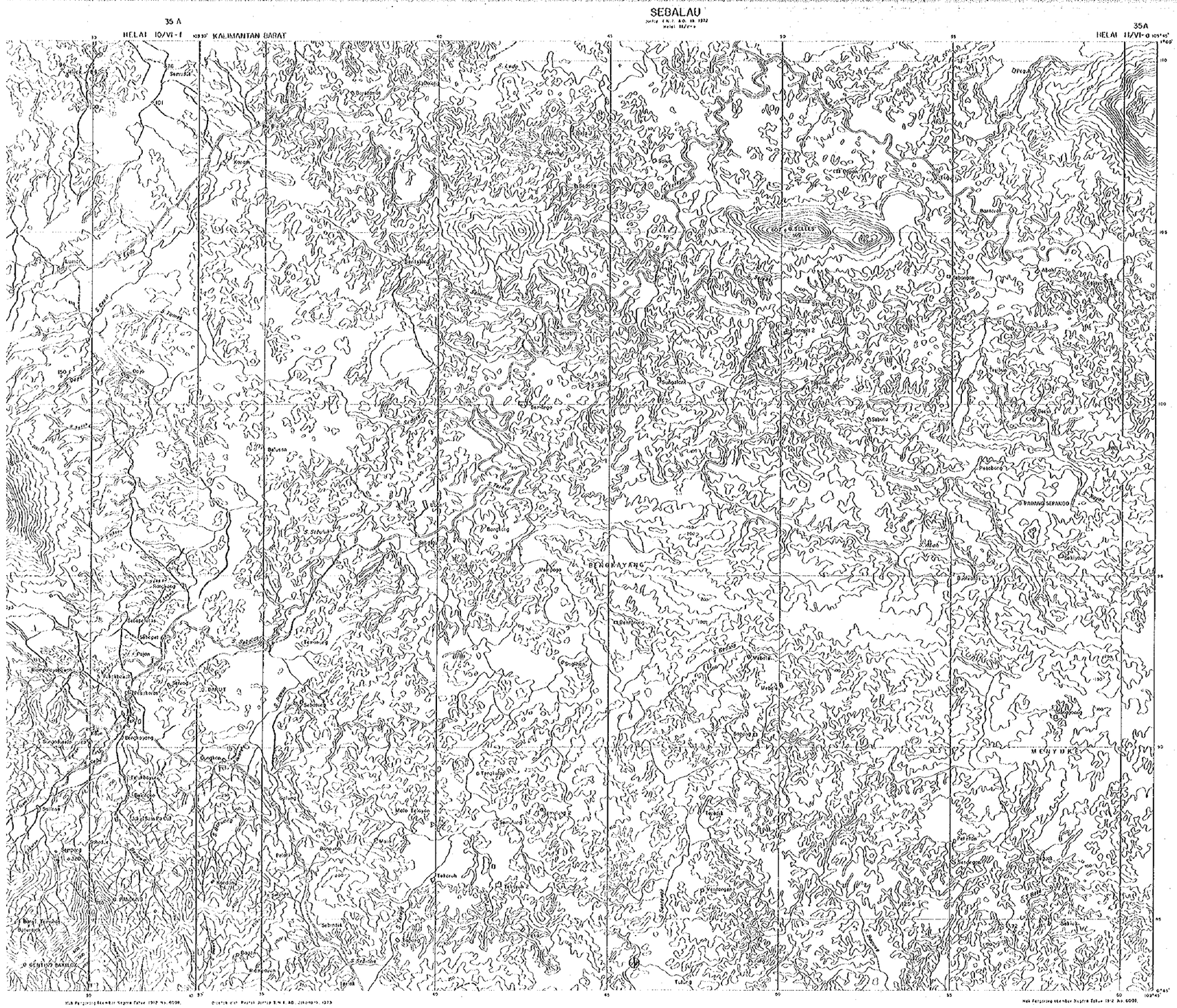
MAP OF GEOCHEMICAL ANOMALIES

Scale 1:50,000

0 1 2 3 4Km



February · 1981



PL.6-1
PL.6-2
PL.6-3

LEGEND

	First class Anomaly (x̄ + 2σ)	Second class Anomaly (x̄ + σ ≤ x < x̄ + 2σ)
Cu	◔	◔
Pb	◕	◕
Zn	◕	◕
Mo	◕	◕

Cu – Geochemical anomalous area
Pb – Geochemical anomalous area
Zn – Geochemical anomalous area
Mo – Geochemical anomalous area