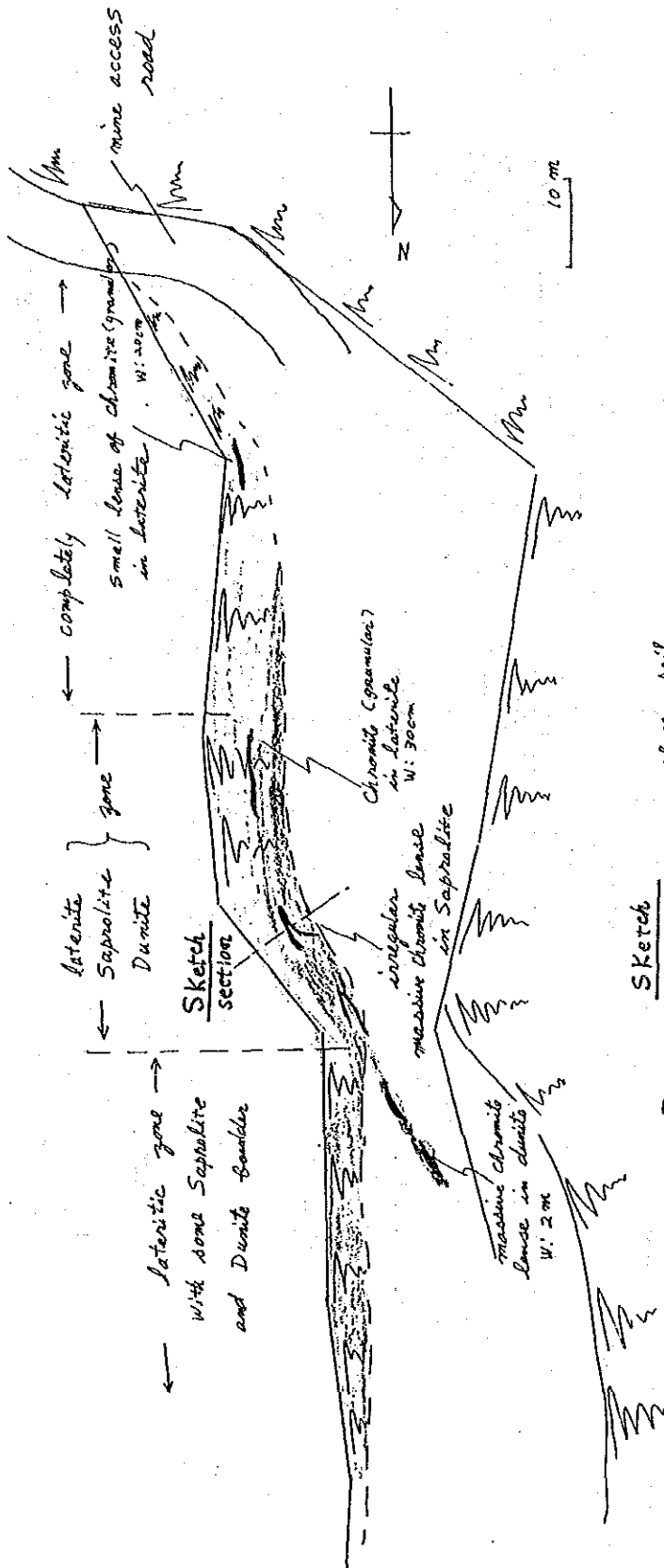
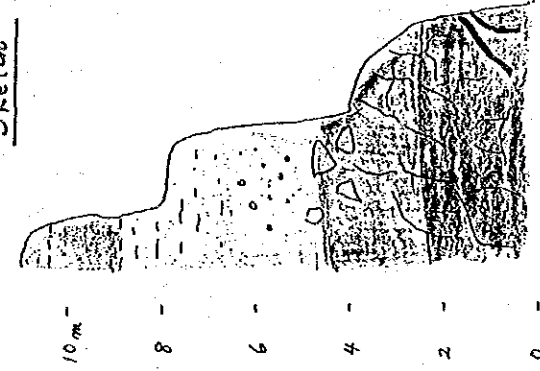


Appendix 10 Route Maps and Sketches of Mineral Showing

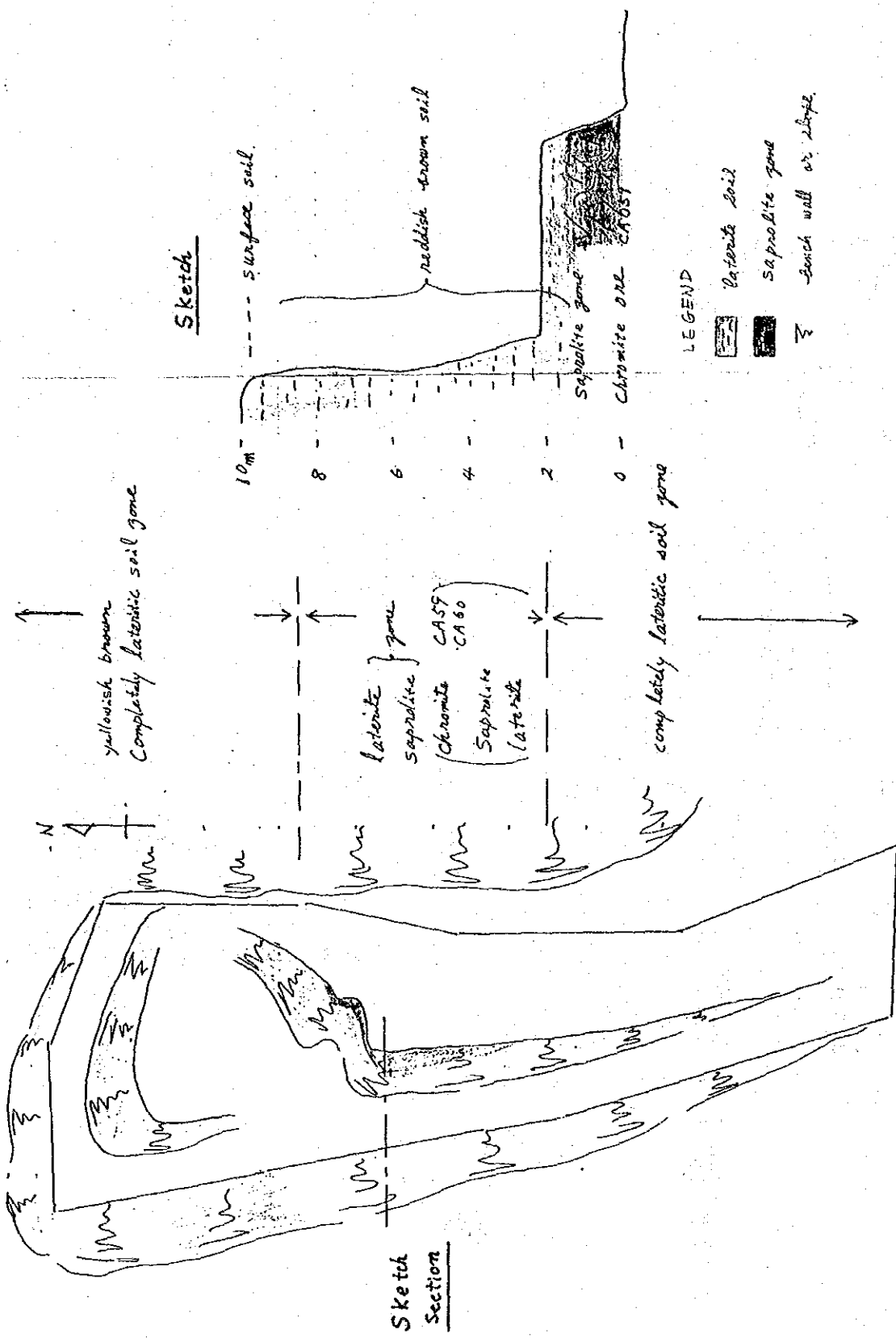


Sketch



- LEGEND
- laterite soil (B)
 - laterite soil (C)
 - saprolite zone
 - dunité
 - chromite lense
 - bench wall or slope

surface soil
 reddish-brown soil (B horizon)
 reddish-brown soil (C horizon)
 Saprolite in serpentine zone
 Saprolite with { chromite ore
 dunité
 Chromite ore CA58 → 49.20 16.51 14.63 1.13 14.93 (%)
 with garnierite CA52






yellowish brown
Completely lateritic soil zone

Sketch

10m --- surface soil.

Sketch Section

LEGEND

-  laterite soil
-  Saprolite zone
-  Bunch wall or slope

GI ₂	Al ₂ O ₃	FeO	SiO ₂	MgO
CA59	32.22	12.07	12.84	13.37
CA60	55.39	14.95	14.50	0.40
			13.11	

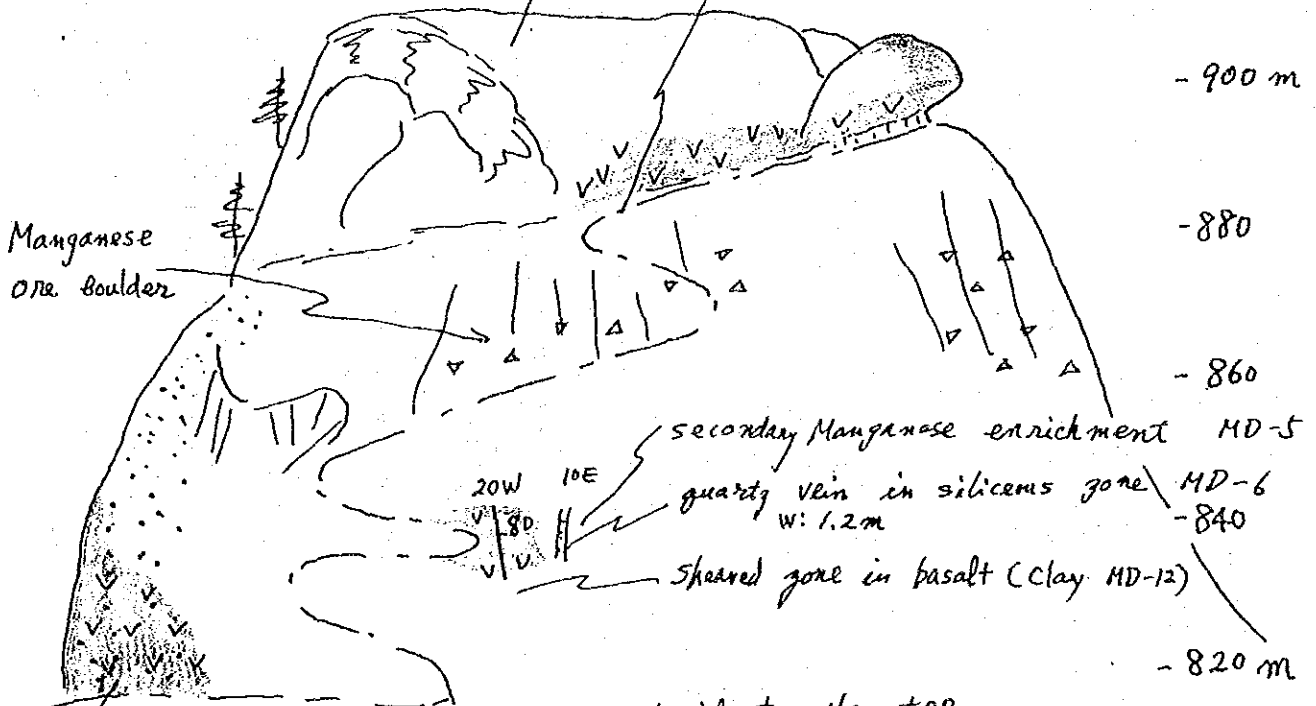
2 CAS CHROHRE HASAYAN 2 (Pelaman)

Sketch Level 2 UPPER LEVEL

DIMAKAWAL Upper Half (Manganese zone with minor copper minerals and gold quartz vein) facing to the North

manganiferous siliceous rock: hosting several quartz vein

Copper stains in silicified basalt

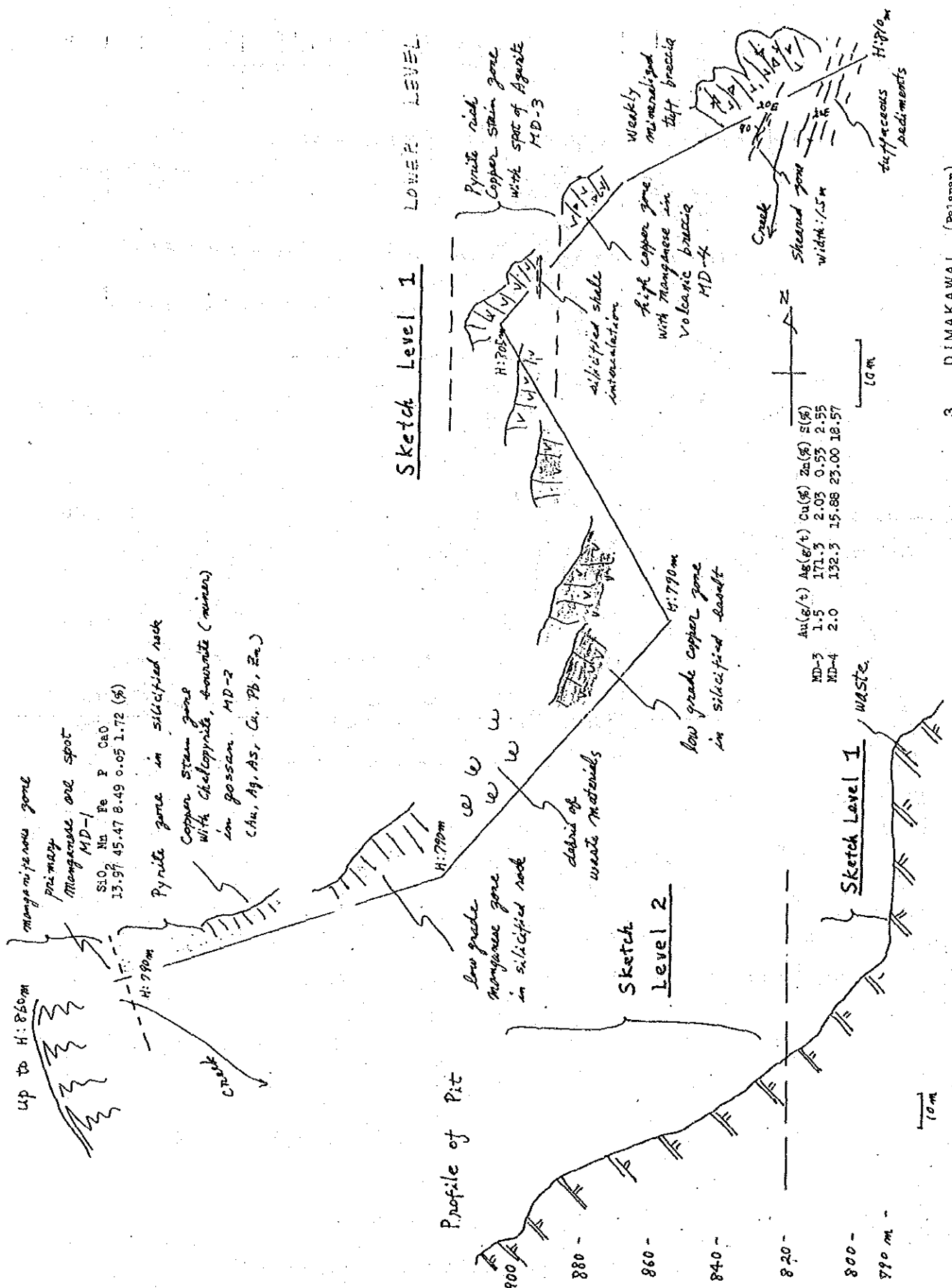


weathered basalt with pillow structure together with copper stains

trail to the top

LEGEND

- Basalt
- silicified zone
- V Δ V tuff breccia
- — — tuffaceous sediment



Manganese zone primary
Manganese ore spot
MD-1

	SiO	Ni	Fe	P	CaO
	13.97	45.47	8.49	0.05	1.72 (%)

	Au(g/t)	Ag(g/t)	Cu(%)	Zn(%)	S(%)
MD-3	1.5	171.3	2.03	0.53	2.55
MD-4	2.0	132.3	15.88	23.00	18.57

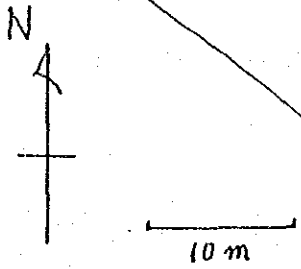
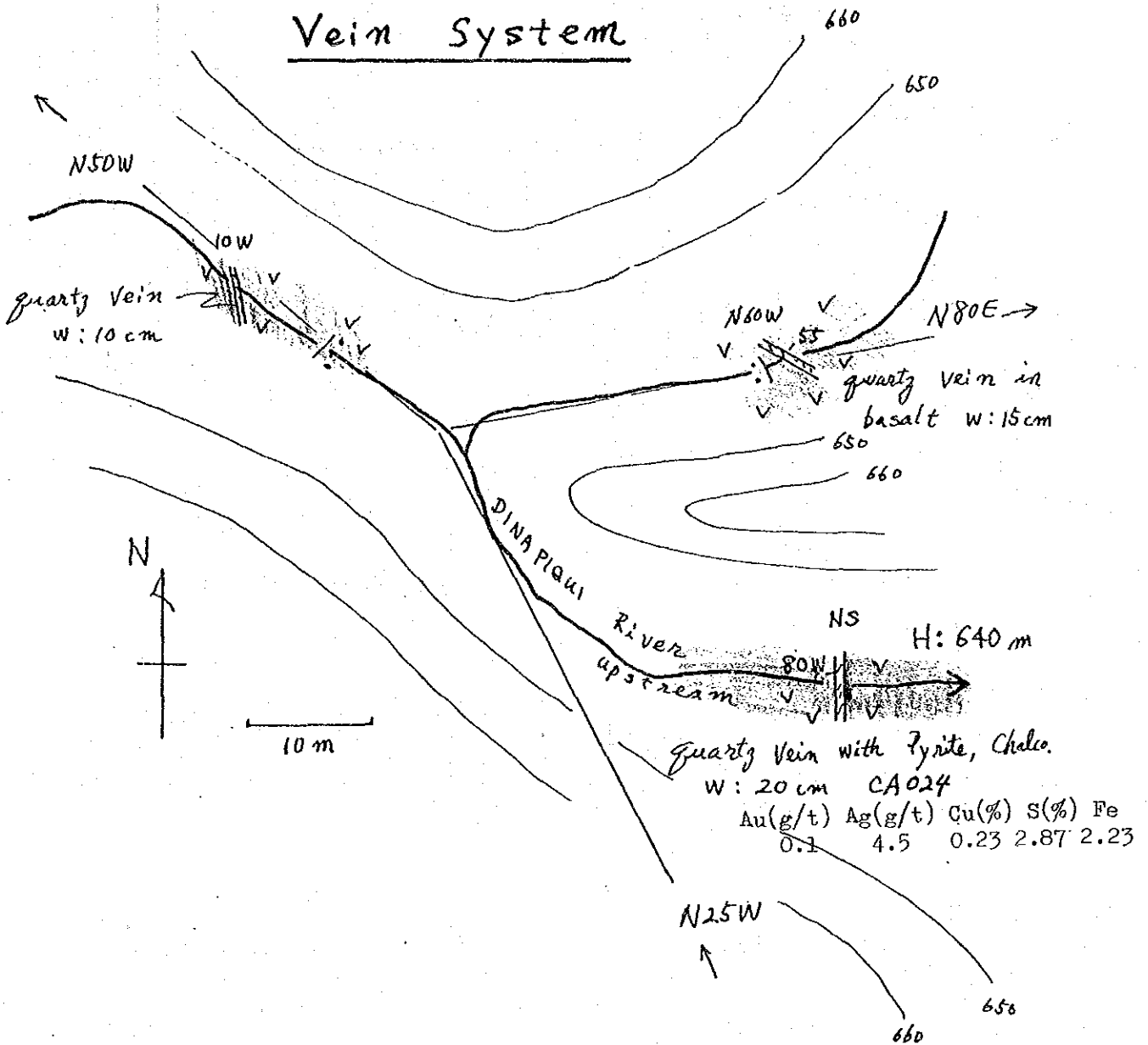
Sketch Level 1
LOWER LEVEL

Sketch Level 2

Sketch Level 1

Profile of Pit

DINAPIQUI Vein System

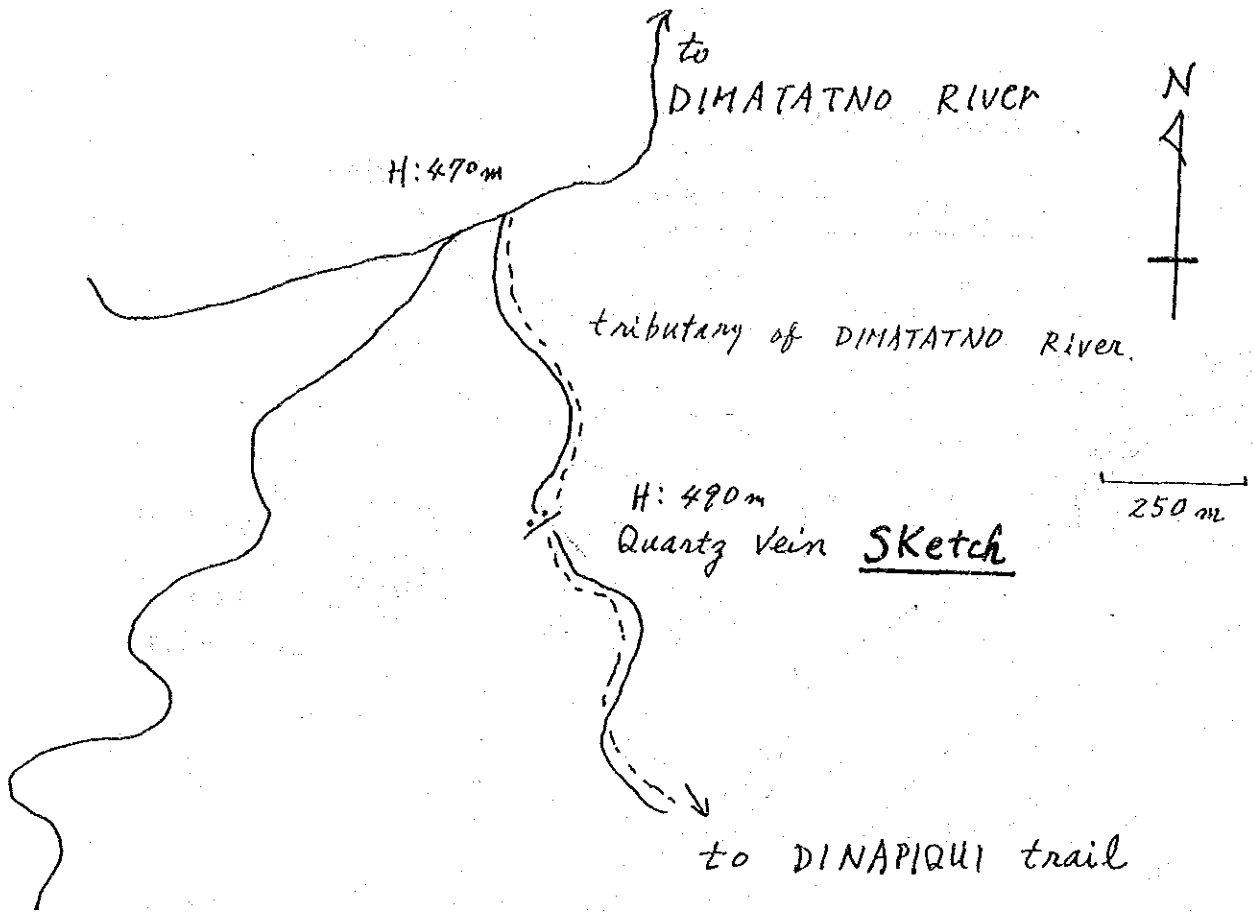


Quartz Vein with Pyrite, Chalco.
W: 20 cm CA024


Au(g/t)	Ag(g/t)	Cu(%)	S(%)	Fe
0.1	4.5	0.23	2.87	2.23


- LEGEND
- basalt
 - quartz vein

4 DINAPIQUI (Palanan)

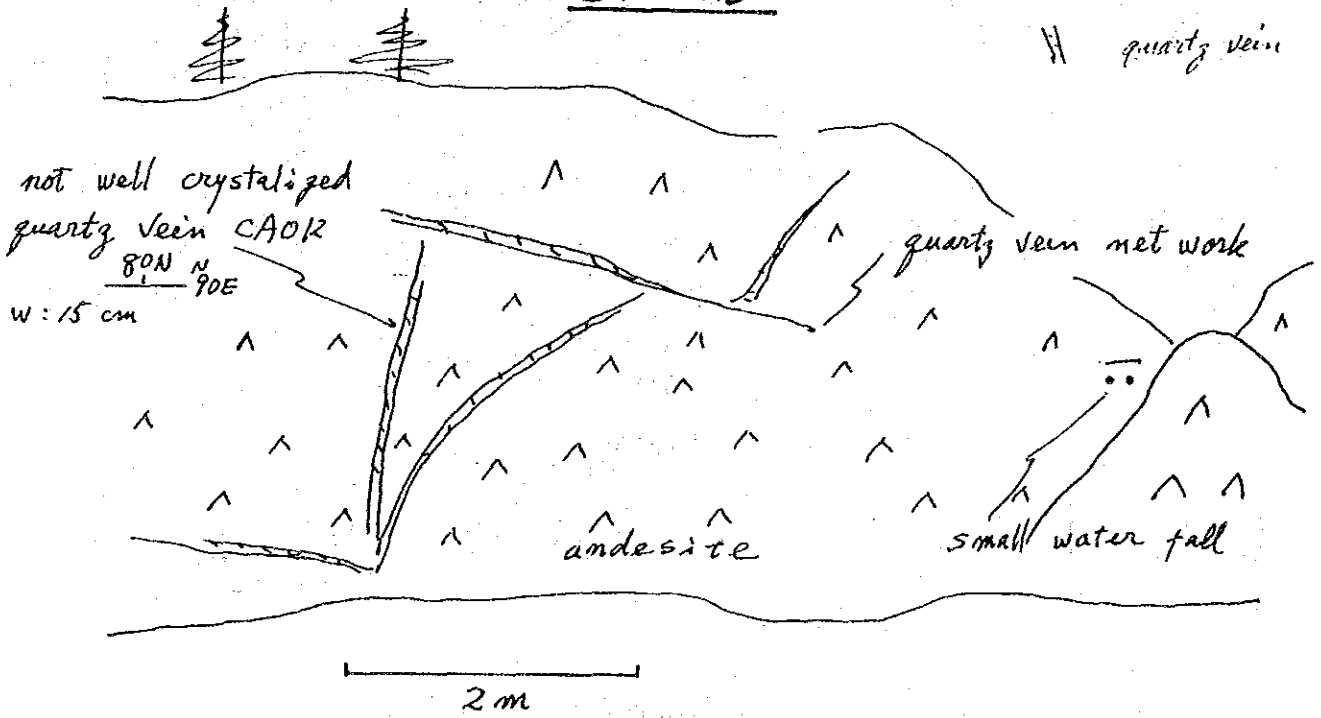


LEGEND

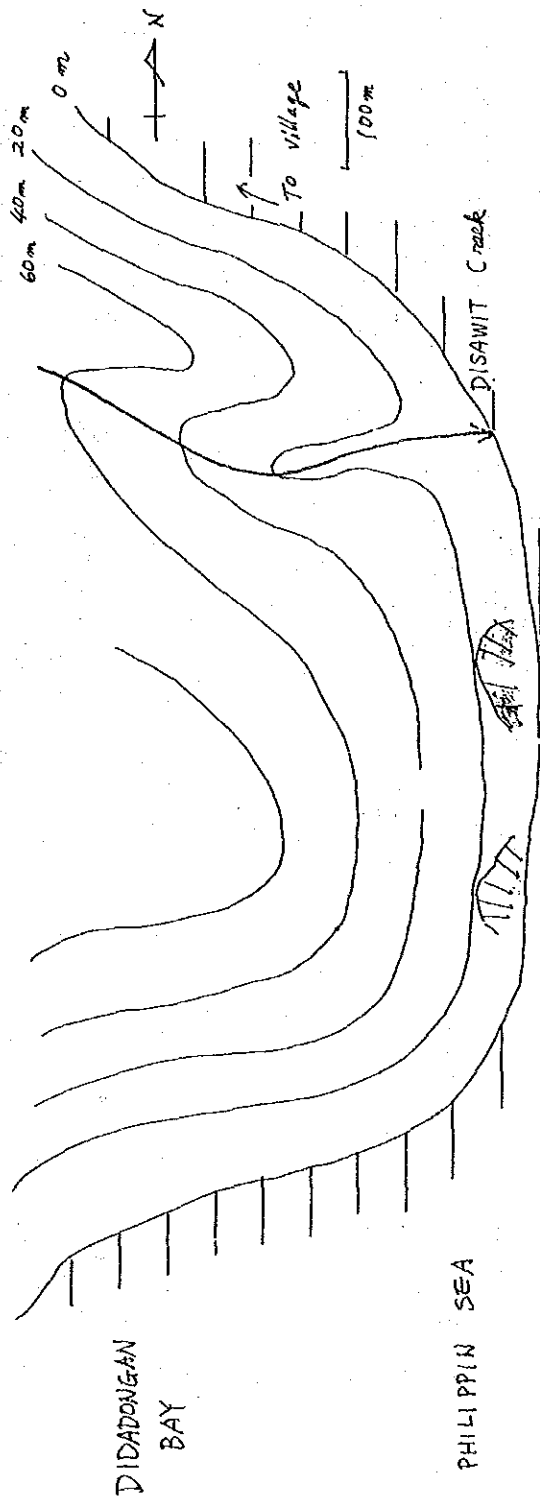
 andesite

 quartz vein

Sketch

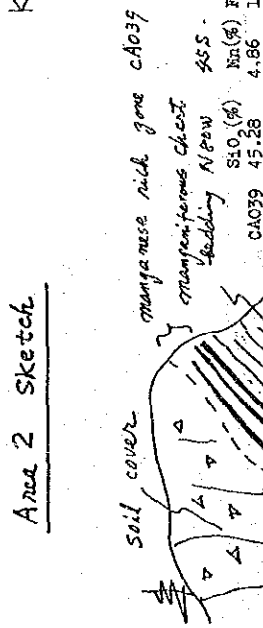
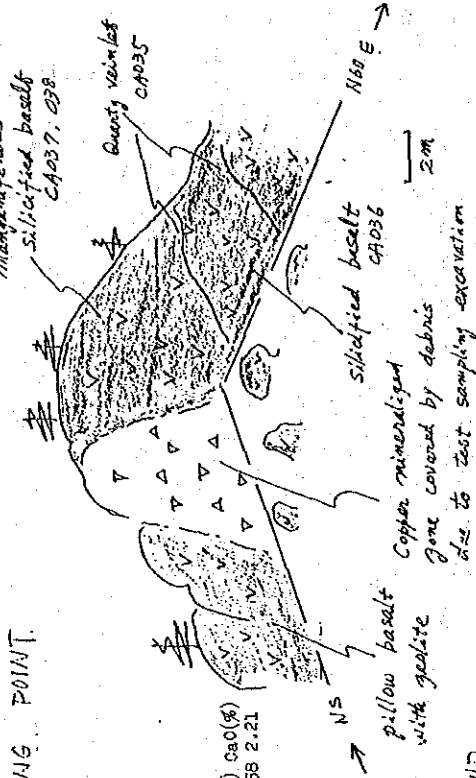


5 DIMATATNO (palanan)



Area 1 sketch

Area 2 sketch

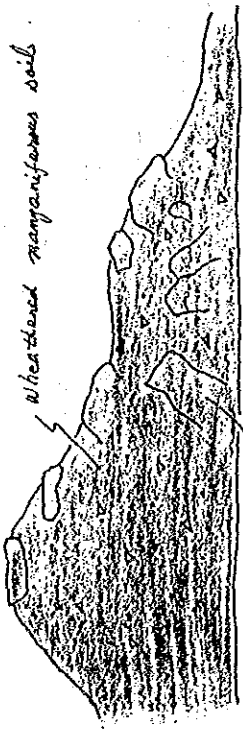


LEGEND

- manganese chert
- pillow basalt
- chert
- manganese rich zone

KANAIPANG Point Mn (Cu) showing
 (People call the place as Disawit showing)

Sketch (section)

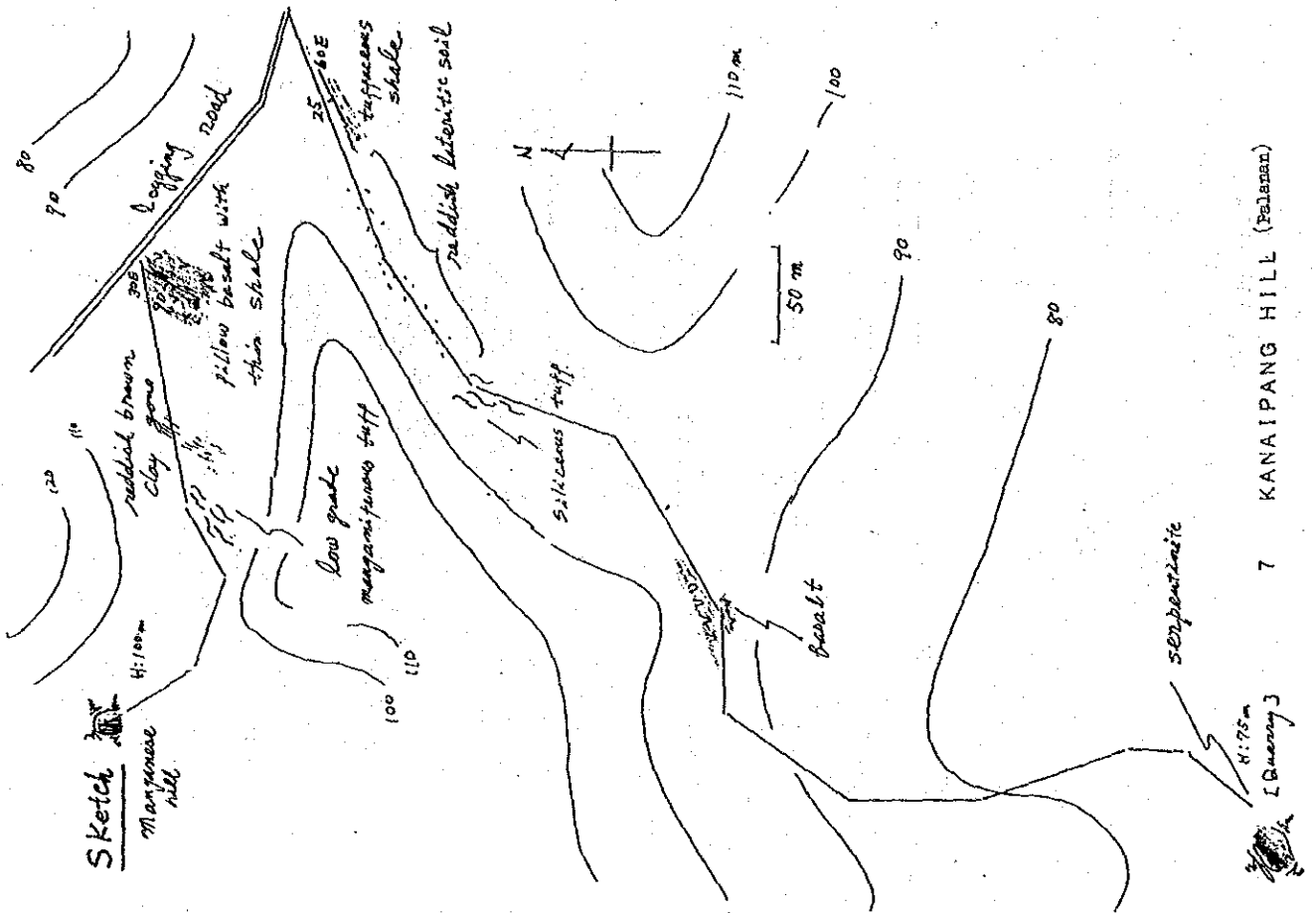


Boulder of Manganese Ore CA041

	SiO ₂ (%)	Mn(%)	Fe(%)	F(%)	CaO(%)
CA041	50.06	6.77	13.44	0.20	0.62

LEGEND

- basalt
- tuffaceous shale - tuff
- manganese sediment
- serpentine



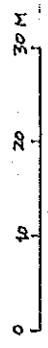


Min. nodules with metallic luster
inter layering of Mn, nodules and Manganiferous chert (KR-15)

	SiO ₂ (%)	Mn (%)	Fe (%)	P (%)	CaO (%)
dominant fractions	47.94	4.8	20.66	0.3	0.07

Sketch
soil and fragment of Mn and chert

alternating manganiferous chert and red chert
Min content of chert is from nil to dominant



LEGEND
 Chert
 Manganiferous ore
 joint

massive chert without discernible bedding with coating of Mn

LOGGING ROAD

bedded chert slightly to highly weathered red to cocoa-brown

Sketch

Manganiferous chert

Soil and fragment of Mn and chert

Mn Ore

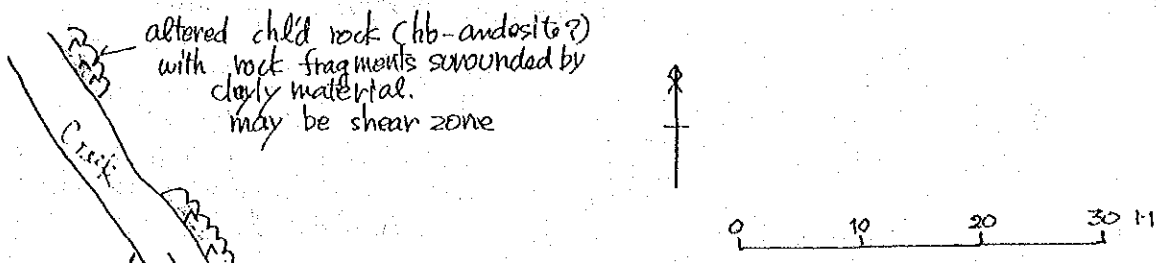
LOGGING ROAD



creak

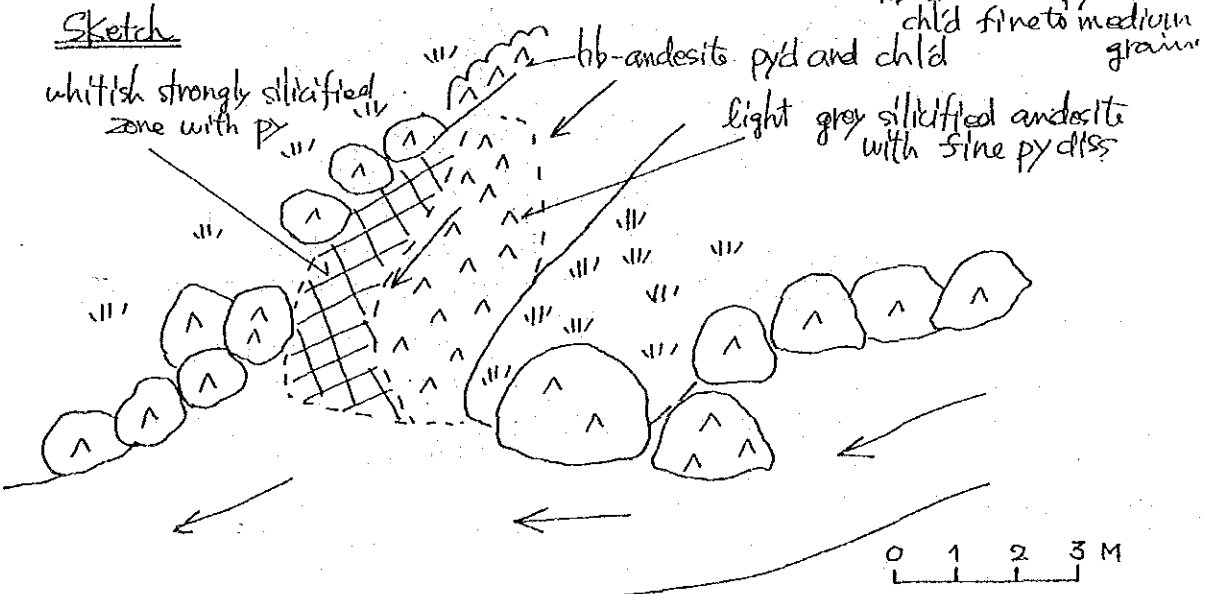
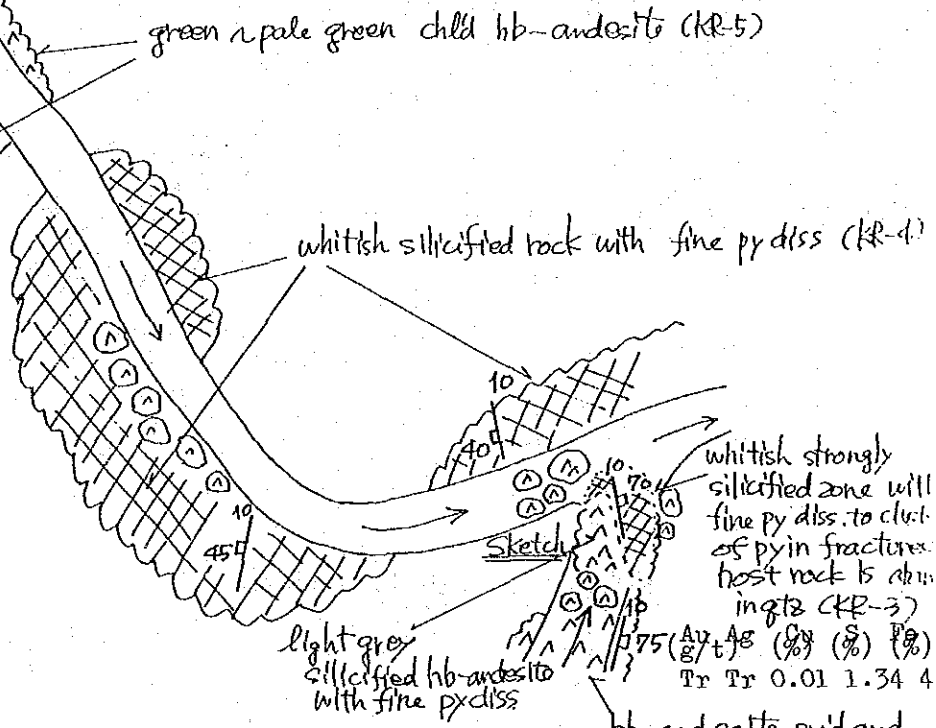
Manganiferous chert (KR-16)
with vertical fracturing

	SiO ₂ (%)	Mn (%)	Fe (%)	P (%)	CaO (%)
KR16	83.78	1.24	5.89	0.05	0.07

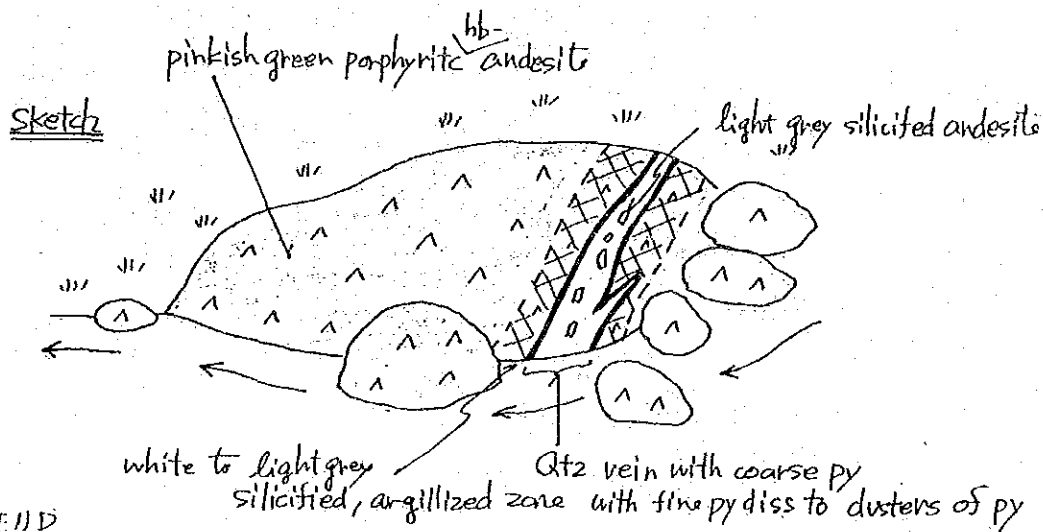
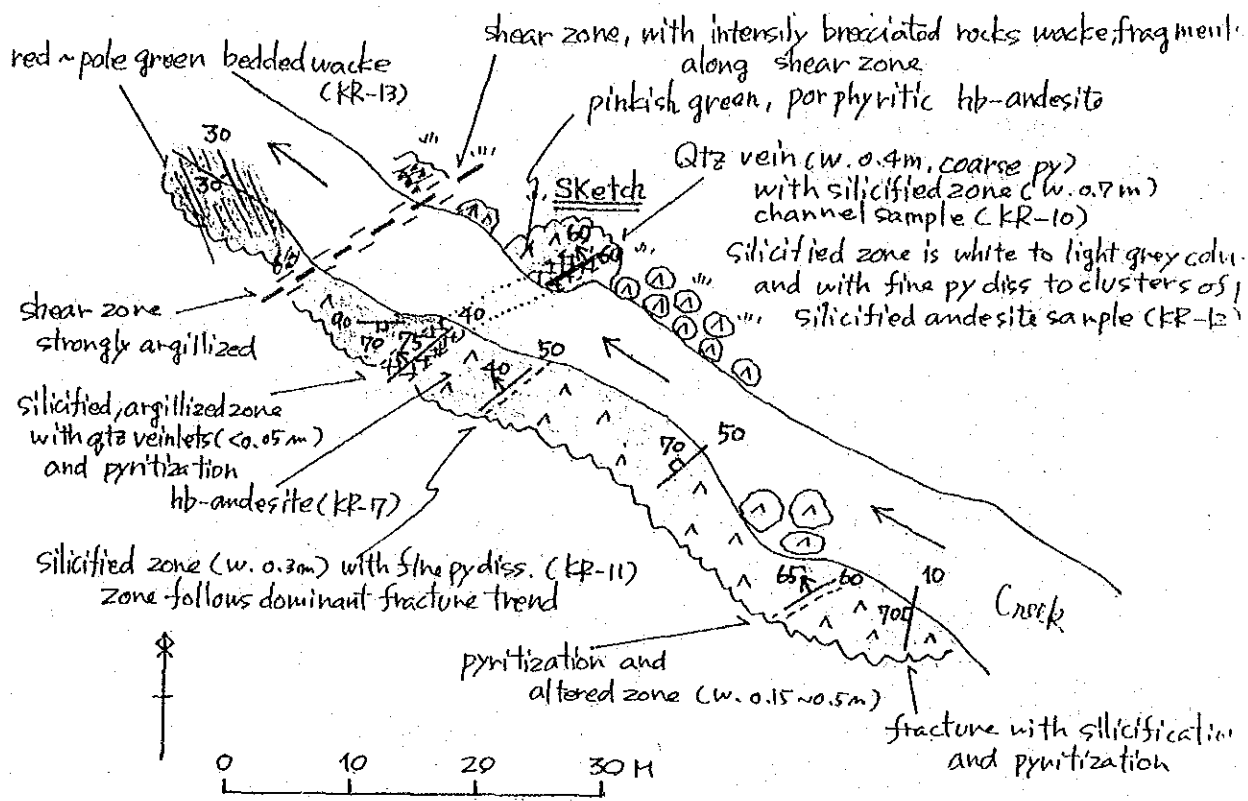


LEGEND

- hb-andesite
- silicified zone
- joint

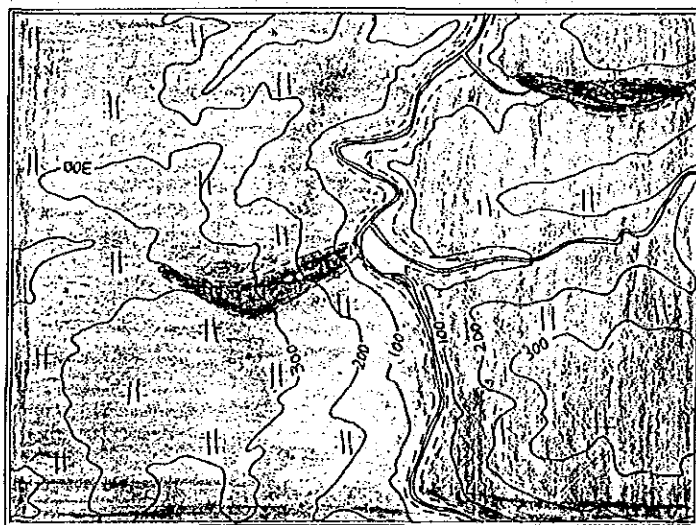


10 GIWED (Palanan)



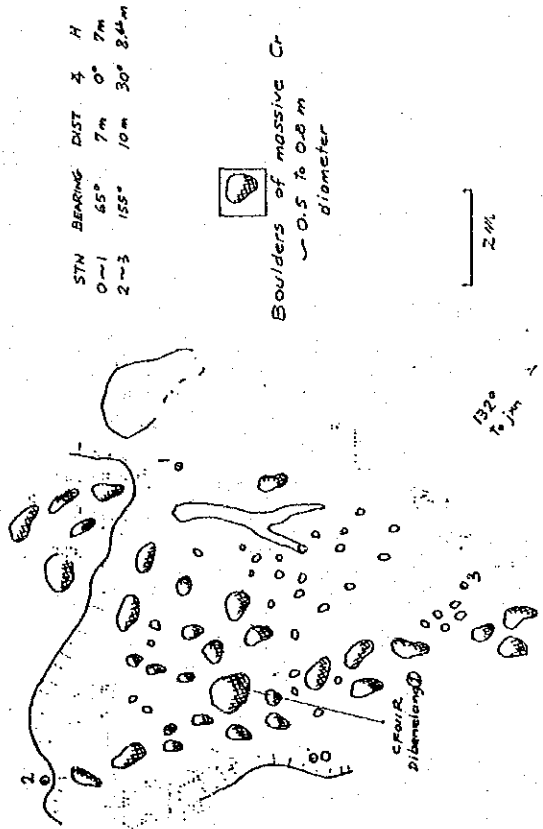
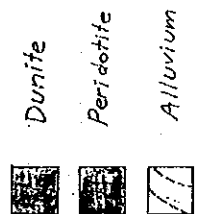
LEGEND

- hornblende andesite
- wacke
- silicified zone
- " structure
- joint



GEOLOGIC MAP
DIBENELANG Chromite Prospect

0 500 1000 m



PLAN
DIBENELANG ① Sketch

200 m elev

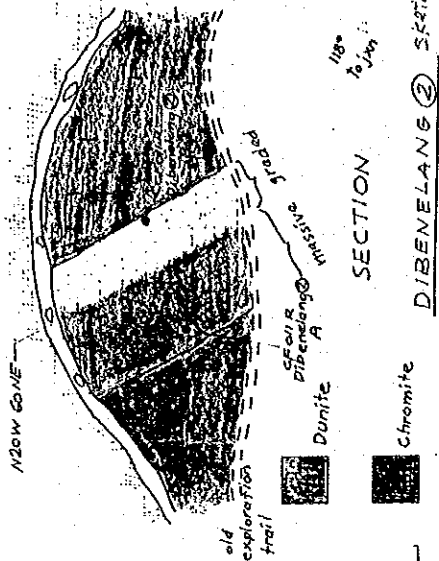
STN	BEARING	DIST	H
0-1	65°	7m	0° 7m
2-3	155°	10m	30° 8.4m



Boulders of massive Cr
~0.5 to 0.8 m
diameter

2 mi

B20
to Jm



B20
to Jm

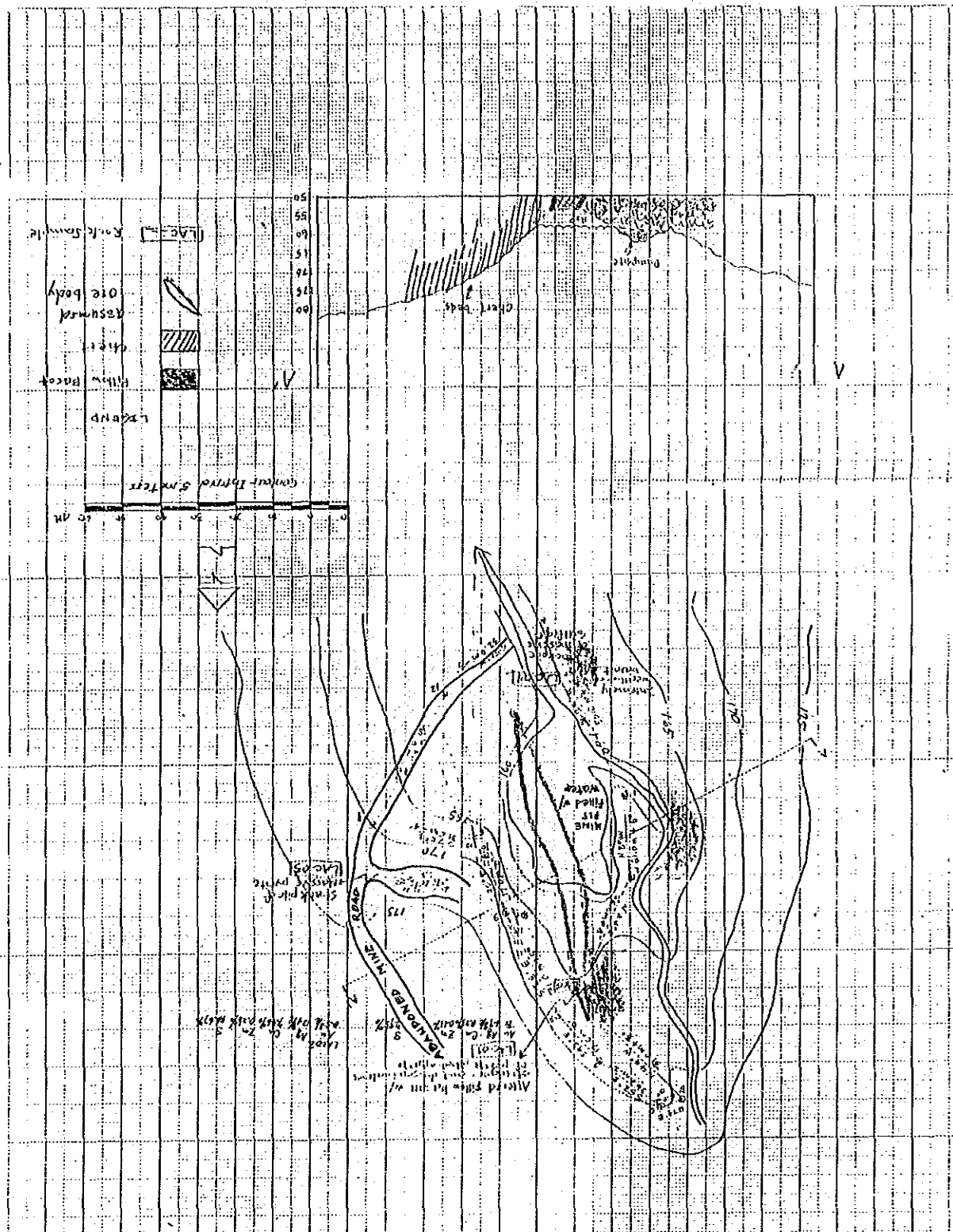
SECTION

DIBENELANG ② Section

140 m elev

12 DIBENELANG (Palemban)





2 mi

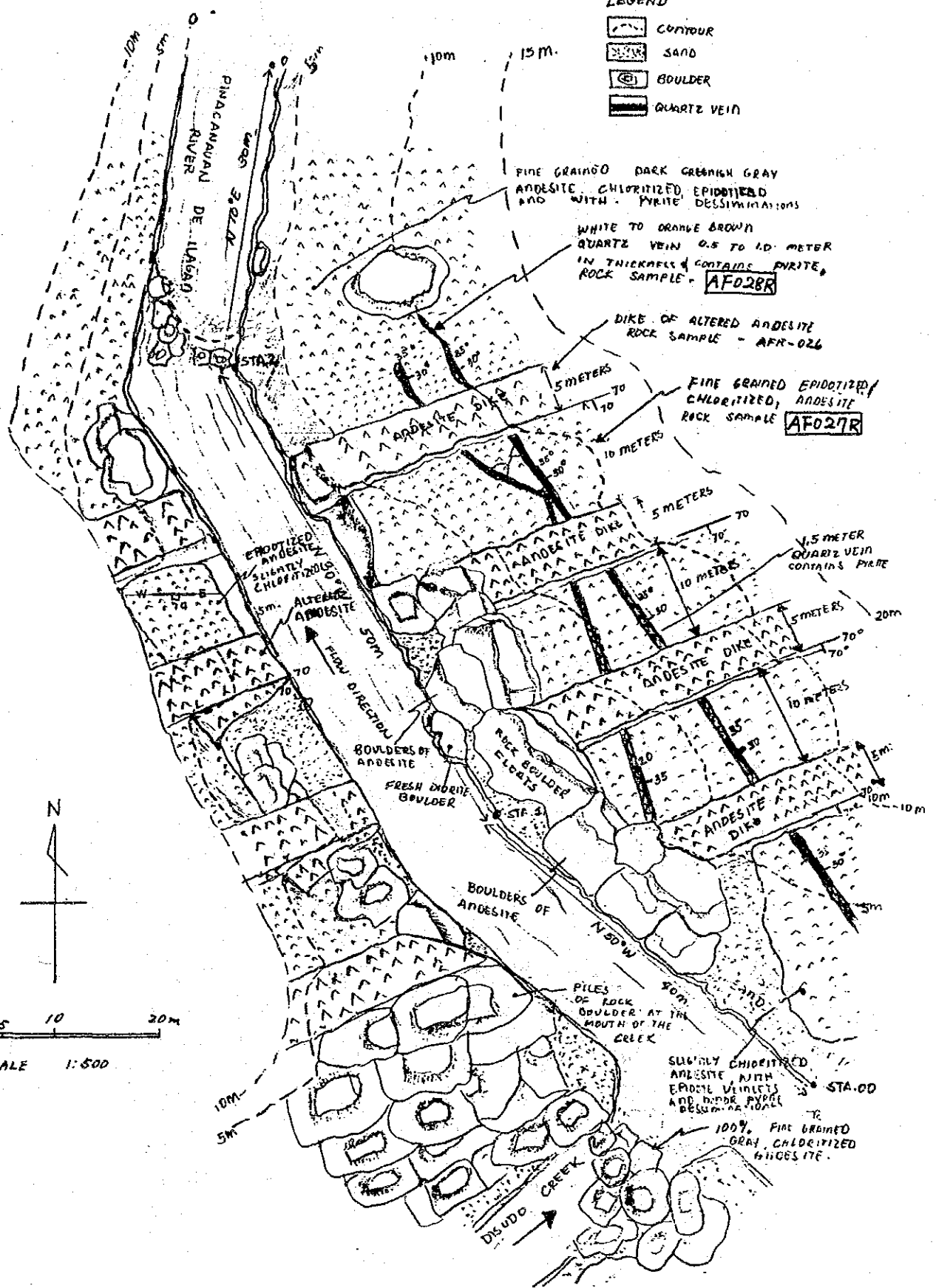


14 LACSON (Palanan)

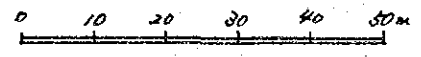
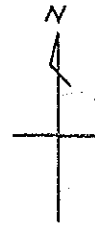
No. 1 (DISUDO CREEK) CAUAYAN

LEGEND

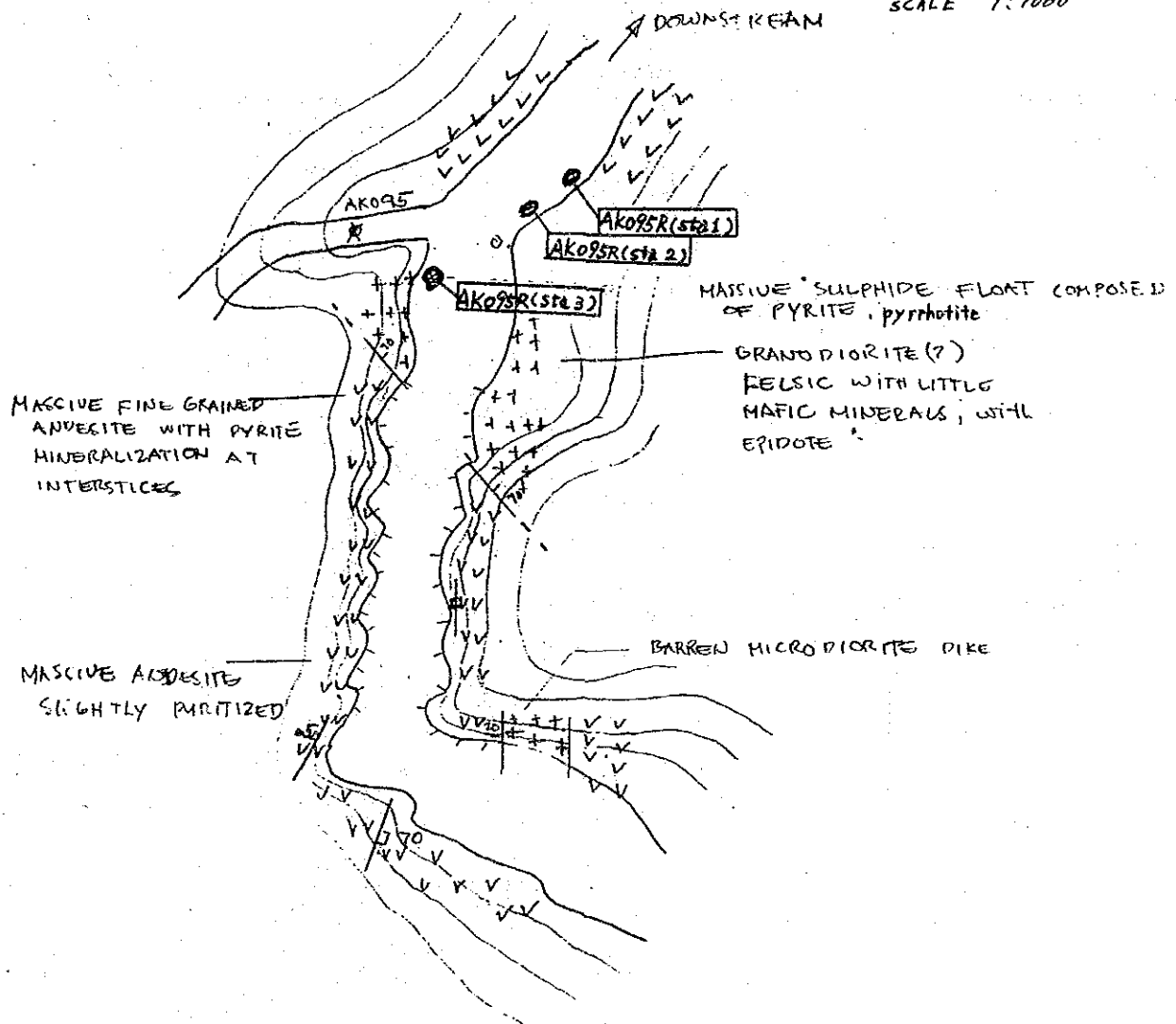
-  CONTOUR
-  SAND
-  BOULDER
-  QUARTZ VEIN



No. 4 (DIWAGAO)
CAUAYAN



SCALE 1:1000



No. 5 (DICAMAY RIVER I)

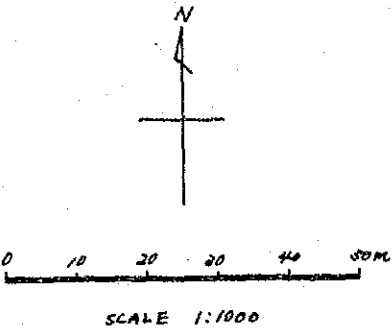
No. 6 (DICAMAY RIVER II)

CAUAYAN

HEMATITE DEPOSIT WITH
GOETHITE CLAST
EARTHY HEMATITE
IN CALCIRUDITE

AK144R

TERRACE DEPOSIT



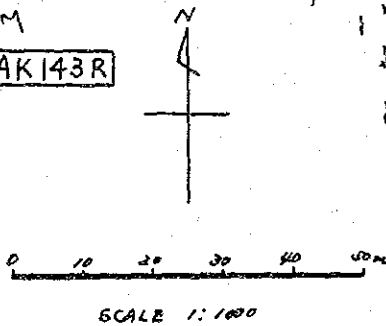
AK144
6

MASSIVE ANDESITE

No. 6 (DICAMAY RIVER II)

HEMATITE DEPOSIT
EARTHY HEMATITE IN
CALCIRUDITE
PILL DEPOSIT IS PROMINENT
UP TO 4KM. DISTANCE along
STREAM

AK143R



TERRACE DEPOSIT

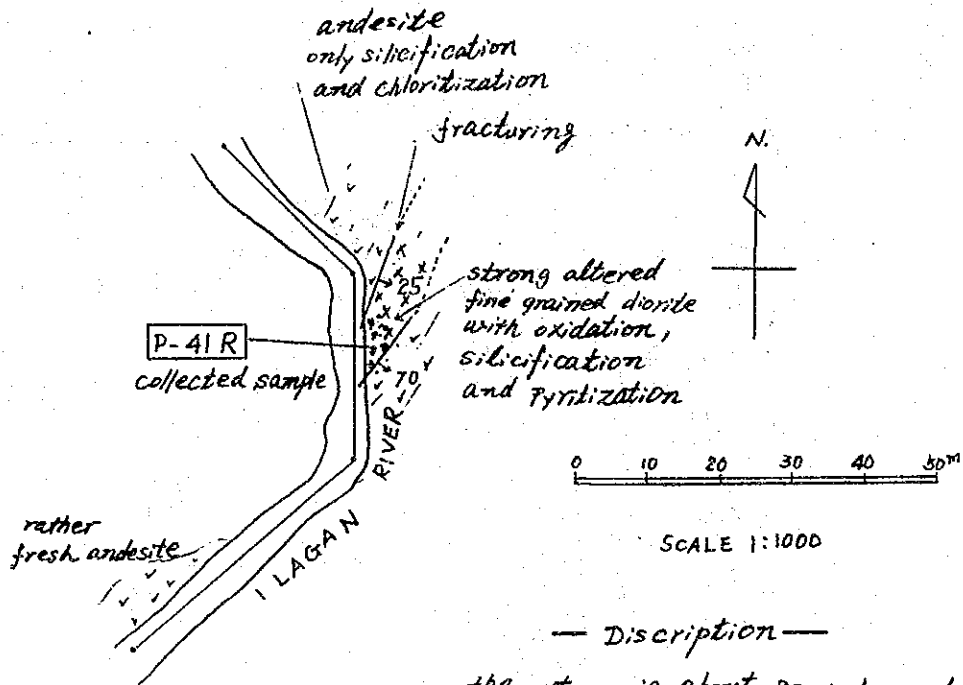
BIOCLASTIC
MASSIVE LIMESTONE

ANDESITE WITH
OVERLYING CONGLOMERATE
PILLAW STRUCTURE SPATIAL

AK143

NO. 7 (ILAGAN RIVER)

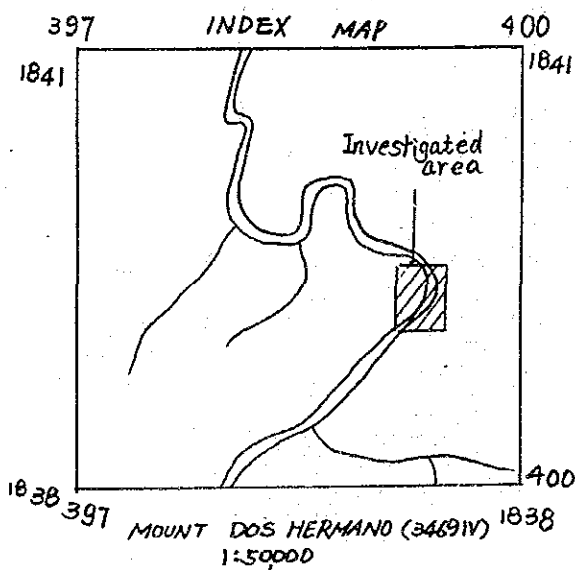
CAUAYAN



— Description —

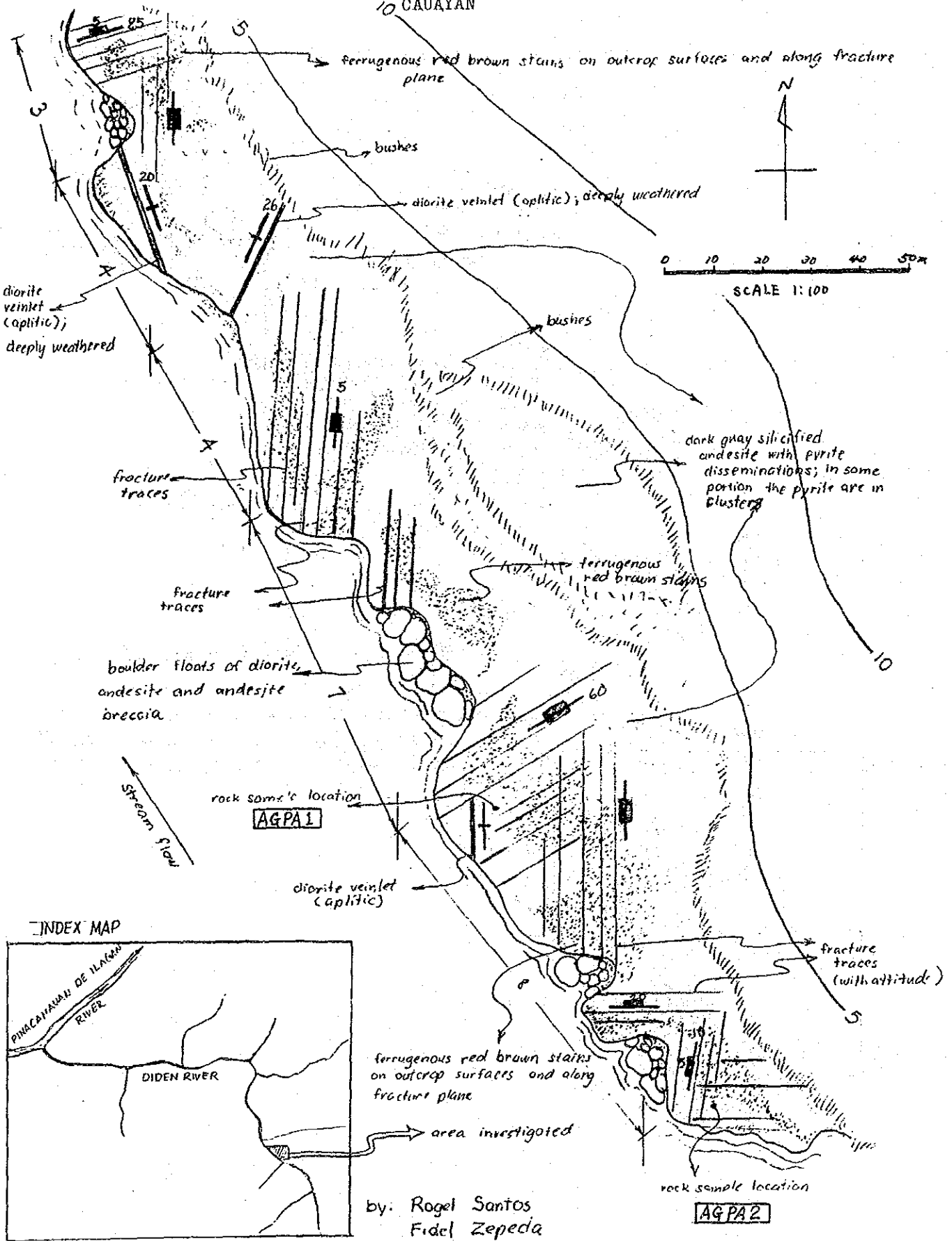
the outcrop is about 80m toward North to south direction.

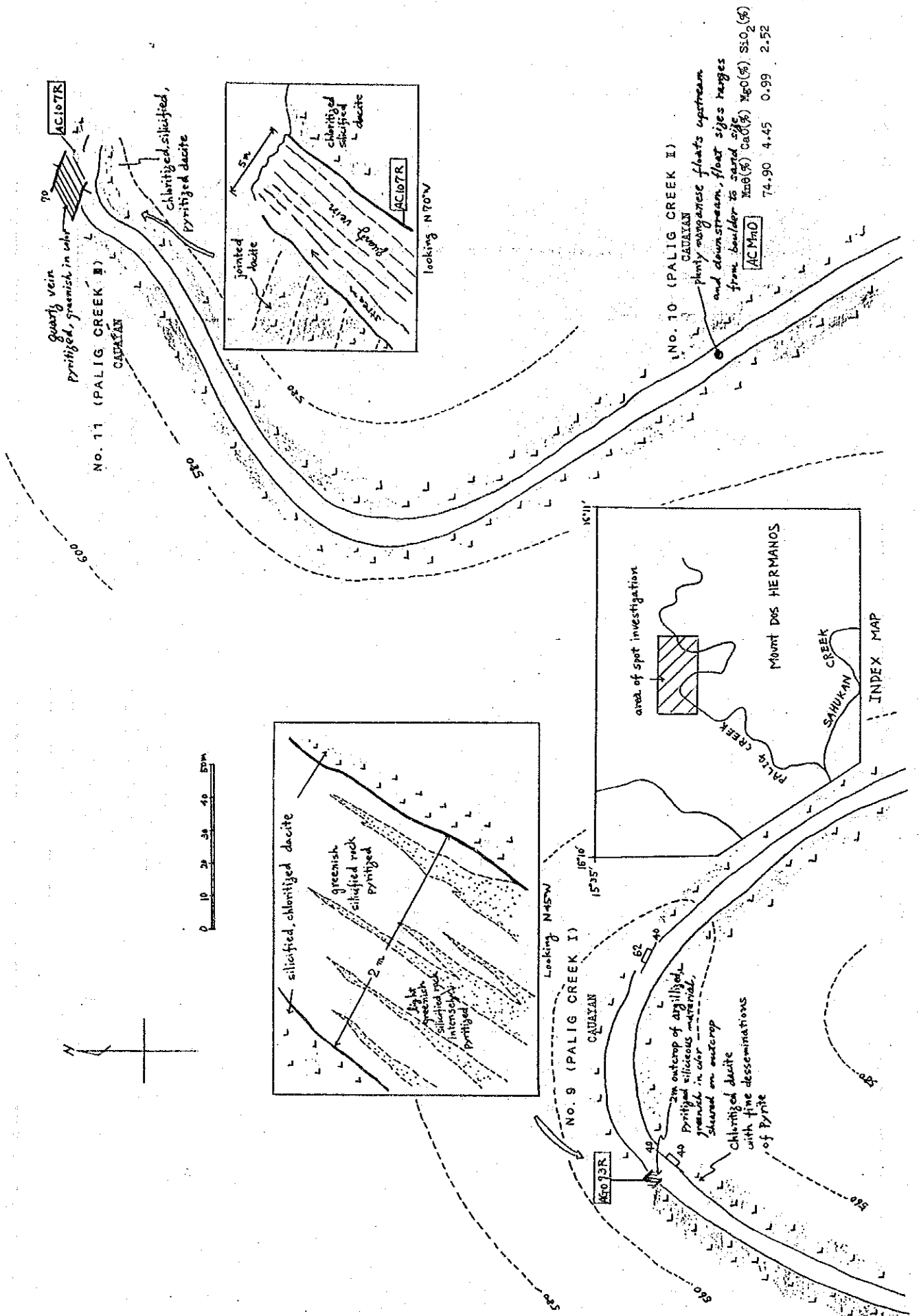
Strong oxidation was observed on the having fractured portion with silicification, chloritization and pyritization



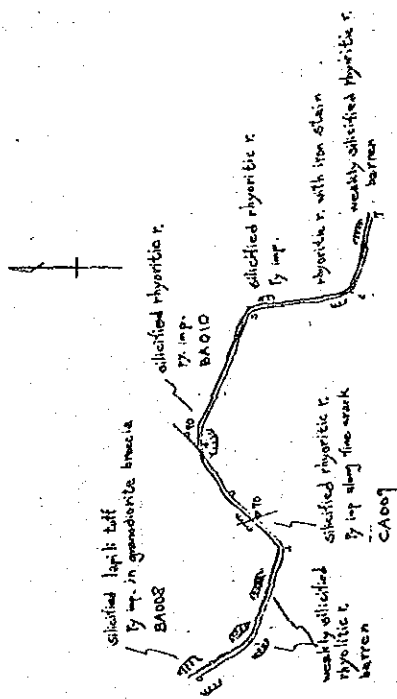
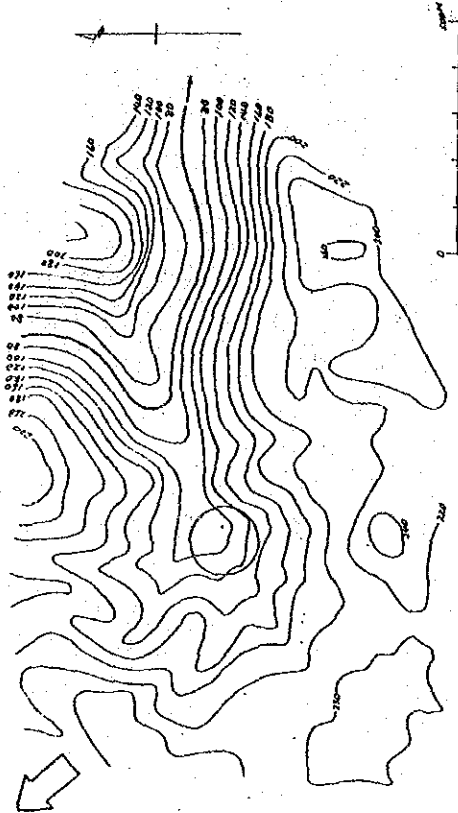
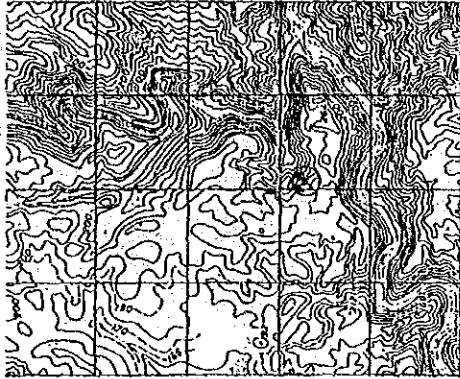
NO. 8 (DIDEN RIVER)

10 CAUAYAN

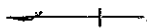
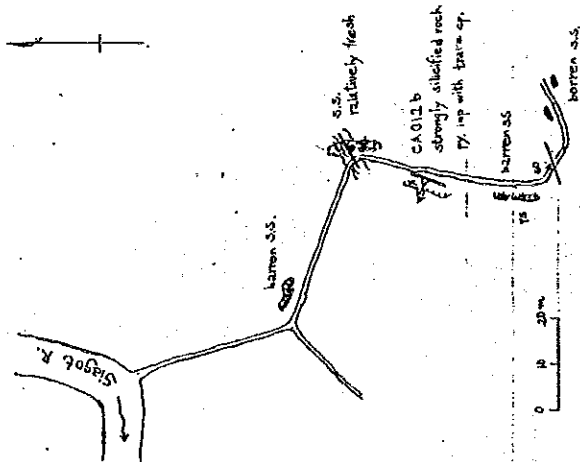
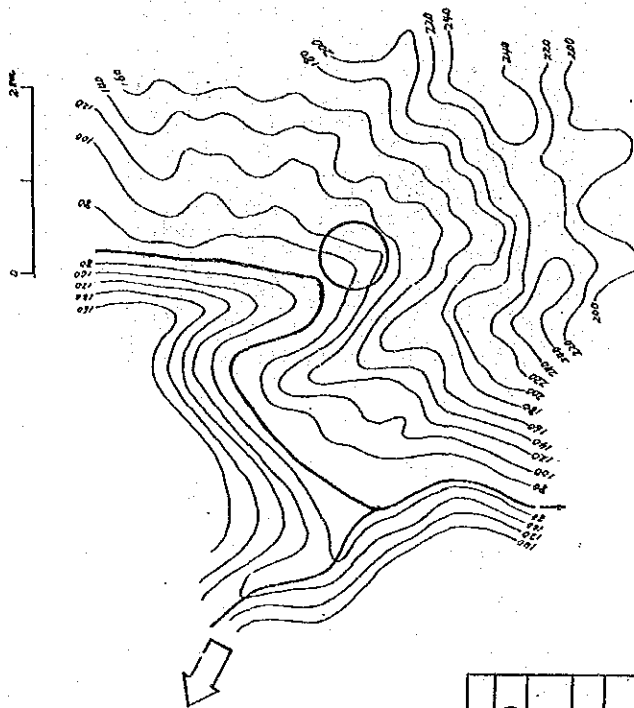
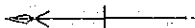
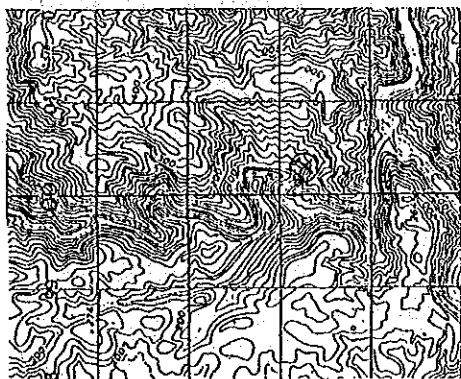




LUPIGUE
(3471-III)

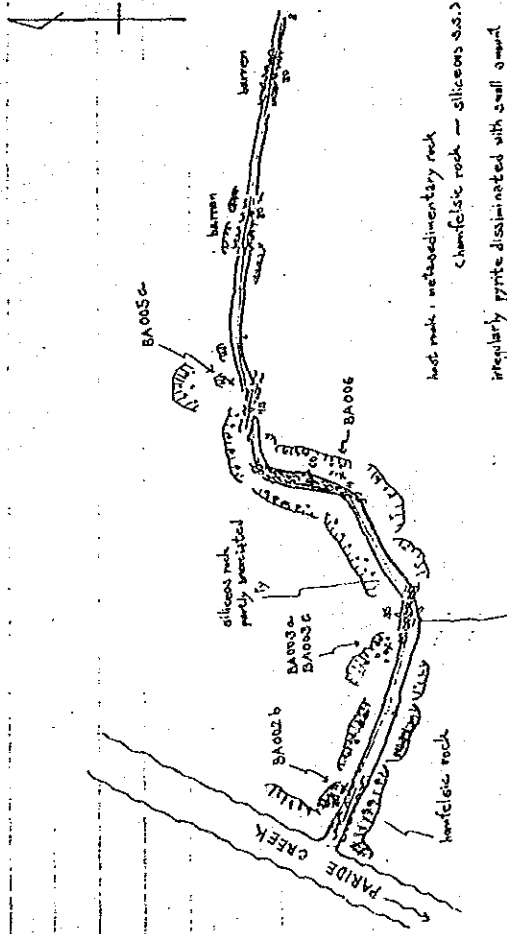
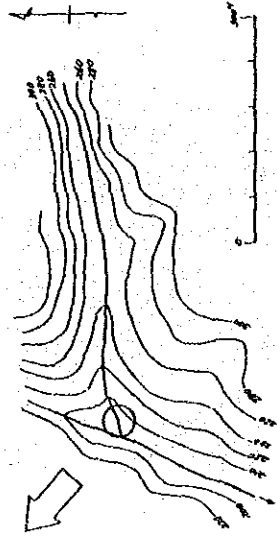
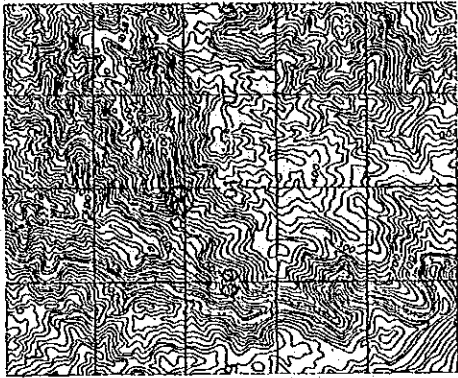


LUPIGUE
(3471-III)



SPOT INVESTIGATION
NO. 2 (Ilagan)
SIAGOT
LUPIGUE
JUNE, 1986

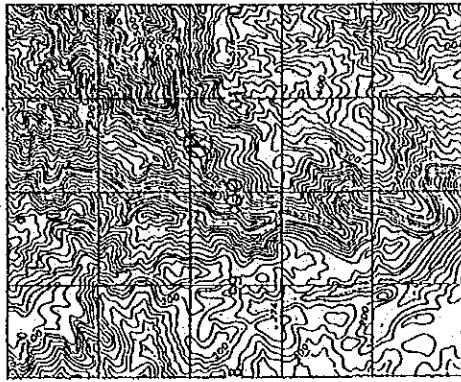
LUPIGUE
(3471-III)



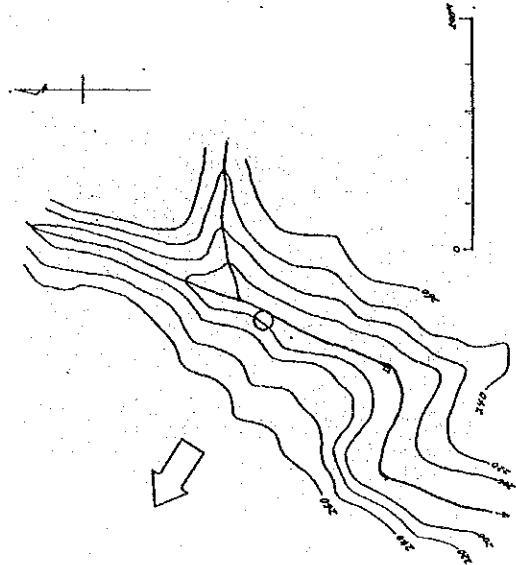
hot rock, sedimentary rock
 chemifelsic rock - siliceous ss.s.
 irregularly pyrite disseminated with small amount
 of chloropyrite

SPOT INVESTIGATION
NO. 3 (Ilagan)
ILAGAN No.1
LUPIGUE
JUNE, 1966

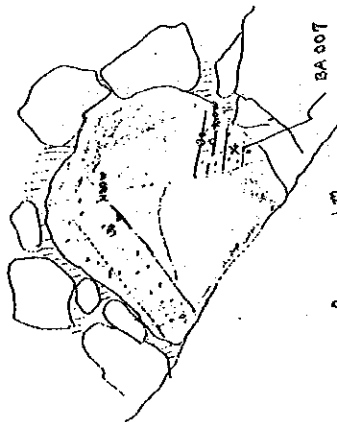
LUPIGUE
3471-III



0 200 400

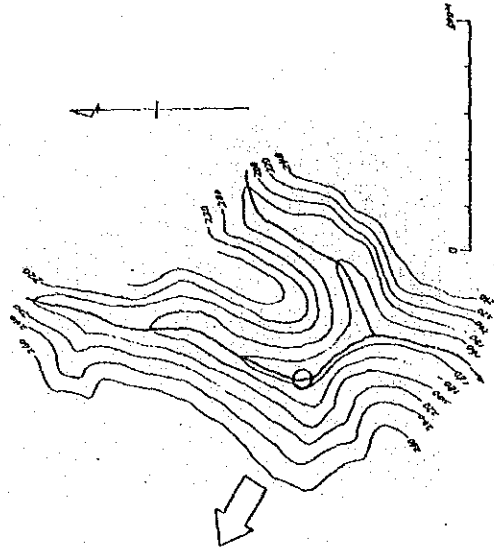
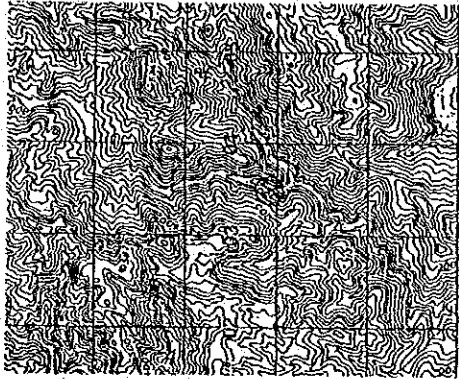


Small outcrop of altered quartz diorite
massy limonite stain on surface
Dy-cp trace inf.

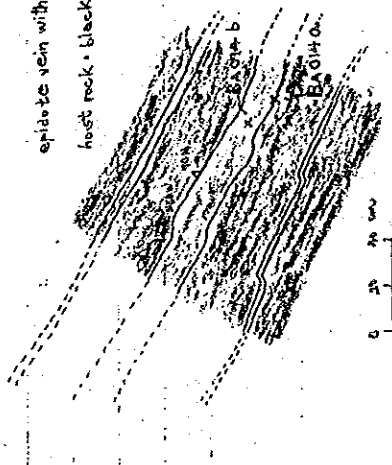


SPOT INVESTIGATION
NO. 4 (Ilagan)
ILAGAN, No. 2
LUPIGUE
JUNE, 1986

LUPIGUE
(3471-II)

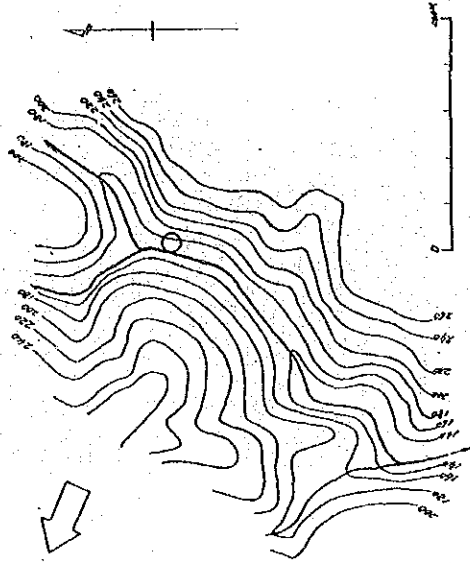


epidote vein with py. & trace ep.
host rock - black wdgst

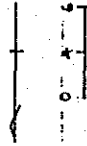
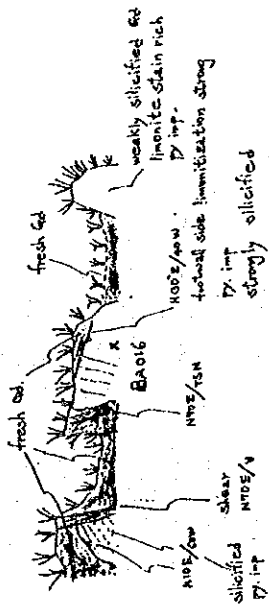


SPOT INVESTIGATION
NO. 5 (Tagan)
MENUMA No. 1
LUPIGUE
JUNE 1986

LUPIGUE
(3471-III)

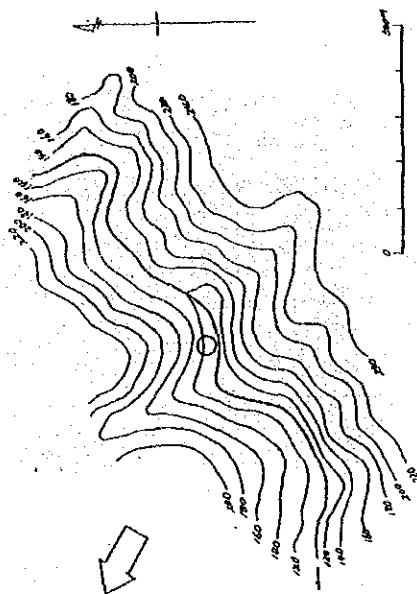
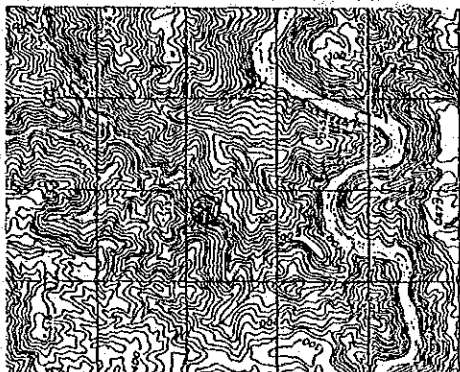


Left side of the Menuma R.

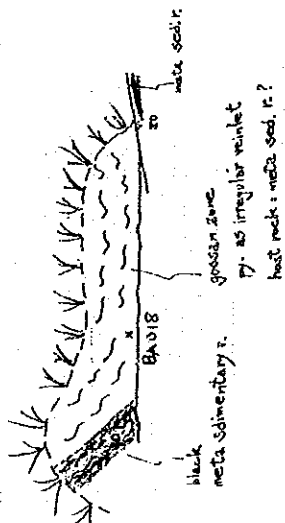


SPOT INVESTIGATION
NO. 6 (IIA22)
MENUMA No. 2
LUPIGUE
JUNE 1986

LUPIGUE
(3471-III)

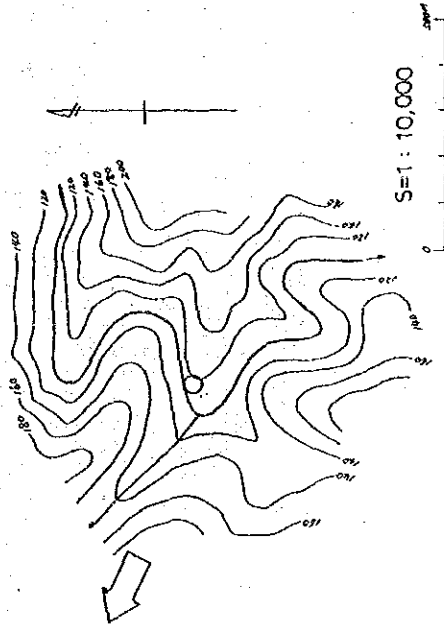
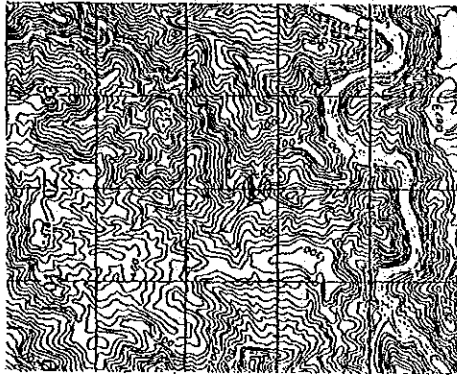


Right side of the Menuma R.

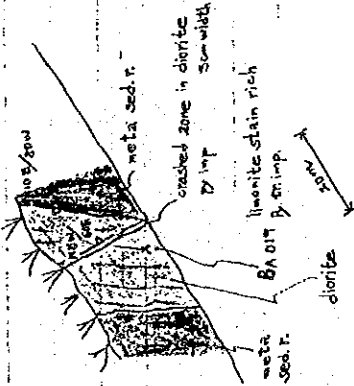


SPOT INVESTIGATION
NO. 7 (ILAGAN)
MENUMA. No. 3
LUPIGUE
JUNE. 1986

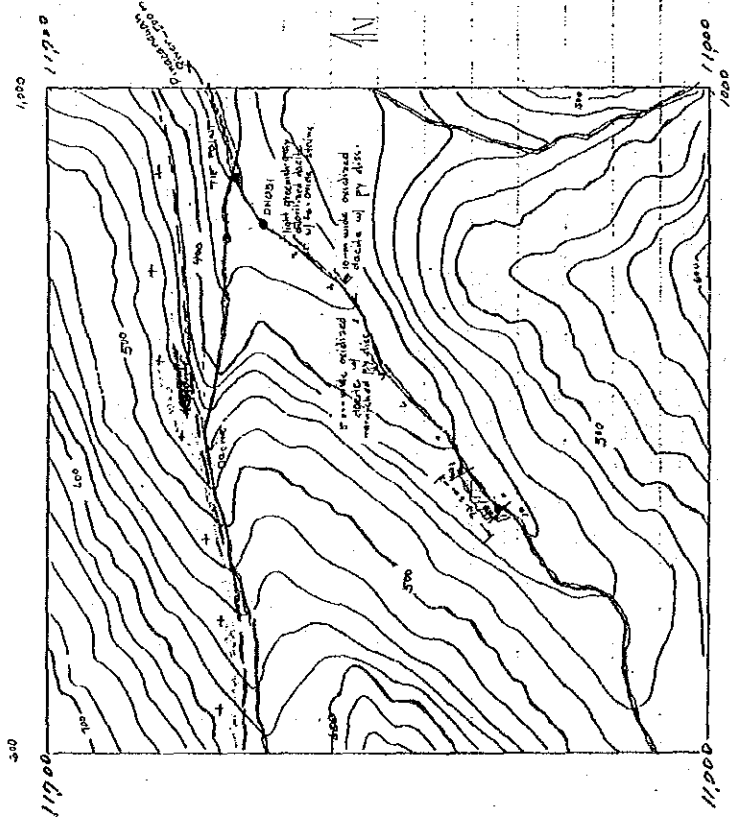
LUPIGUE
(3471-III)



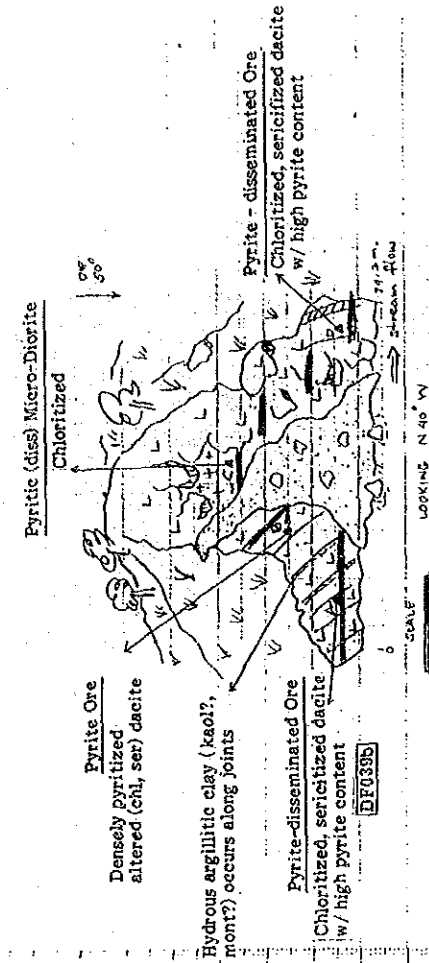
Left side of the Menuma R.



SPOT INVESTIGATION
NO. 8 (Itegan)
MENUMA, No. 4
LUPIGUE
JUNE, 1986

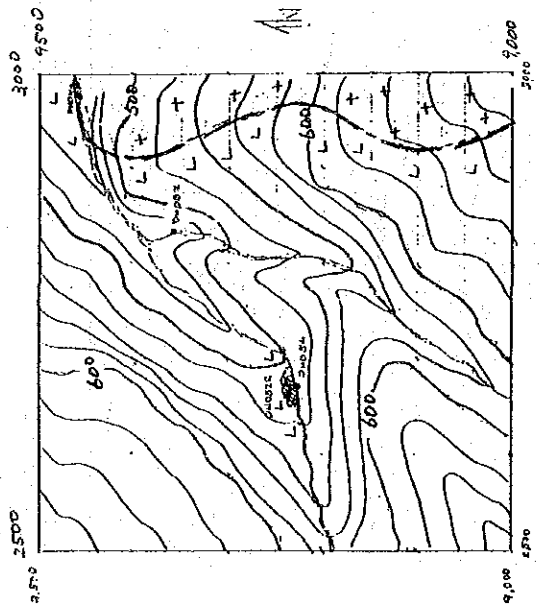


- LEGEND:
- contour line
 - Stream
 - line of traverse (tape)
 - SPOT INVESTIGATION AREA
 - Stream sediment sample
 - Outcrop
 - in ferred geologic contact
 - joint



- LEGEND
- ▲ rock sample
 - ▬ channel sample
 - ▬ scree material
 - ▬ vegetation
 - ▬ dacite
 - ▬ diorite
- NOTE:
- Alteration colors/stains
1. Reddish (deep) - hematite? (Fe-Oxide)
 2. Reddish brown - limonite?
 3. Bluish - Azurite?
 4. Yellowish - sulfide alteration

I CASABLAGAN (TUGUEGARAO)



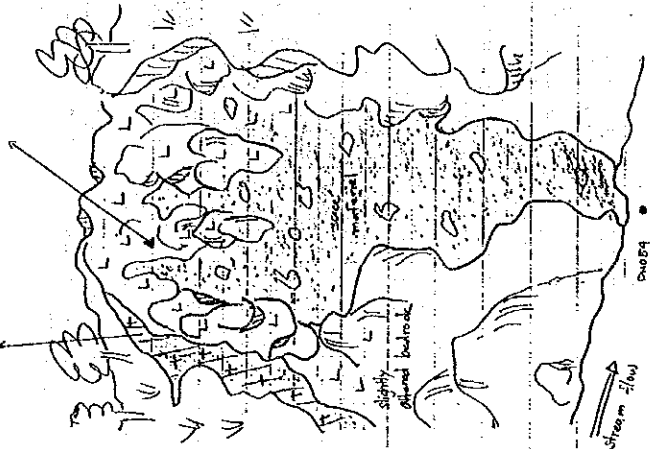
LEGEND

- - - contour line
- stream
- ▨ SPOT INVESTIGATION AREA
- Stream sediment sample
- Rock sample
- - - Inferred geologic contact

Alteration minerals concord w/
Qtz? - Sericite - Pysite
assemblage.
(Qtz is doubtful if primary
or secondary)

DH052R Hered dacite

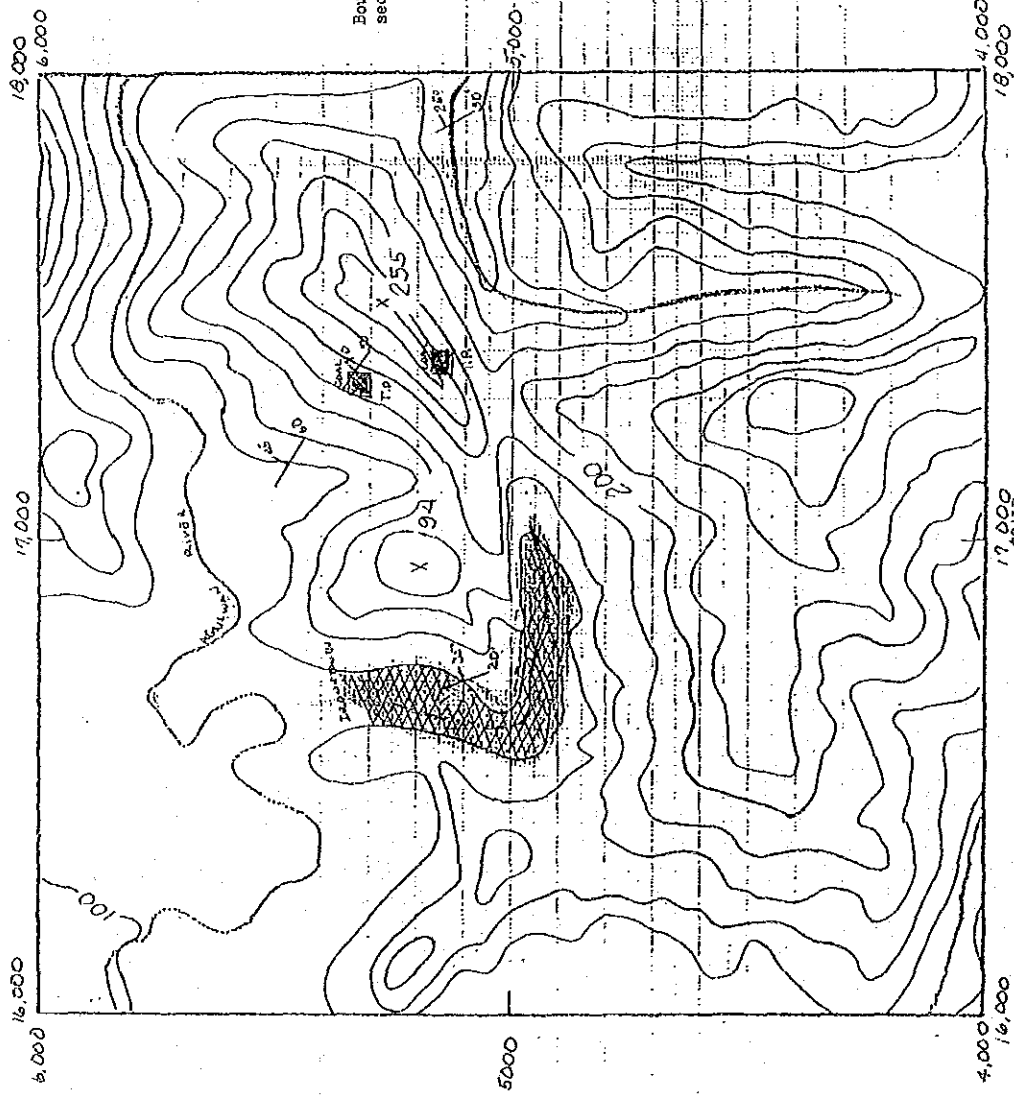
Micro-diorite?



LEGEND:

- ▨ - rock sample
- - stream sediment sample
- ▨ - diorite (micro?)
- ▨ - dacite

2 DINACDACAN (TUGUEGARAO)



(B) CAPISSAYAN (W)

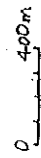
Outcrop of Ironstone interbeds with fine grain sandstone & shale in some portion, it occurs as thin bed or nodules on the surface of outcrop, approximate length is 100 m.

Boulders contained secondary iron oxide. Siderite, Limonite, Hematite, Pyrite, Magnetite and Goethite are observed.



(A) CAPISSAYAN (E)

Two test pit observed in the area about 1 meter square, coal associated sandstone and shale can be seen in it, it seems to be initial stage of development.



- LEGEND
- 300- Contour line
 - Stream
 - Spot investigation area
 - Dip & strike of beds
 - Test pit of coal
- SCALE 0 100 200 300 400 100 M

