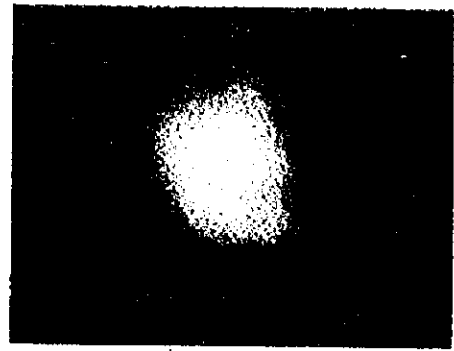
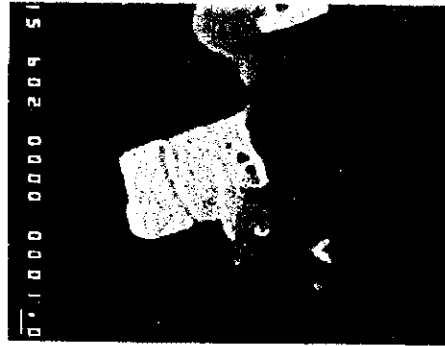


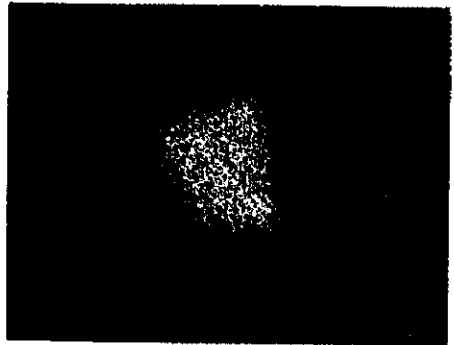
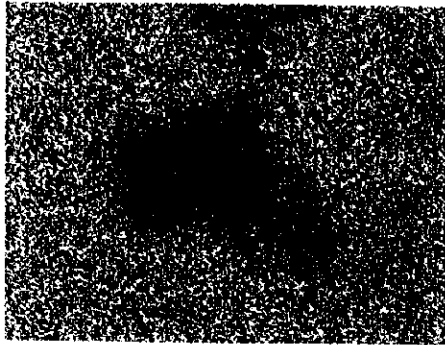
Results of EPMA analysis

A009

Sample Number : 1
 Acc. Voltage : 15 k.v
 Current : 0.05 μ A



As. Sb. \rightarrow

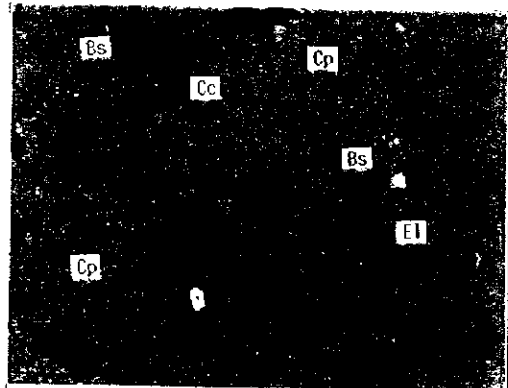
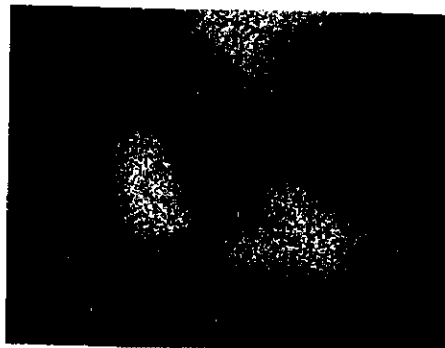
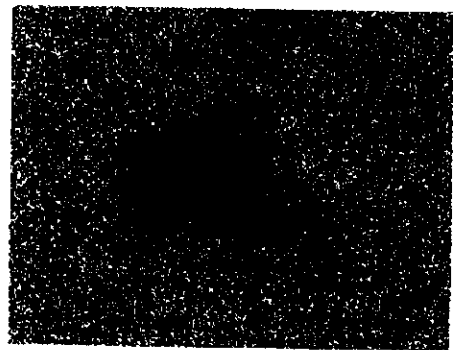
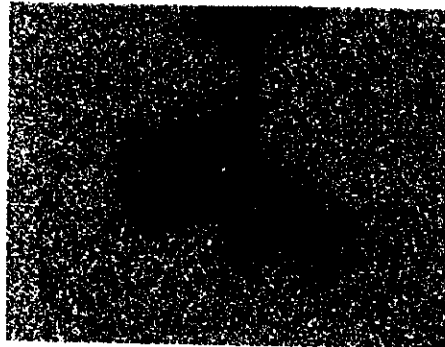


Distribution of selected elements

BSE image	Au
	Cu Ag



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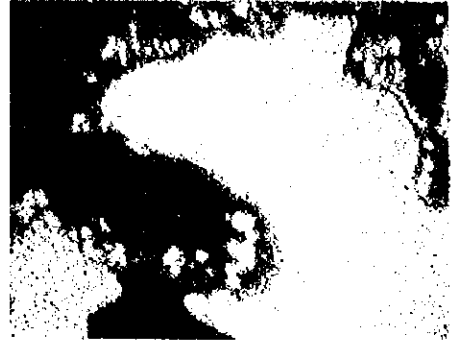


Fe S
Bi

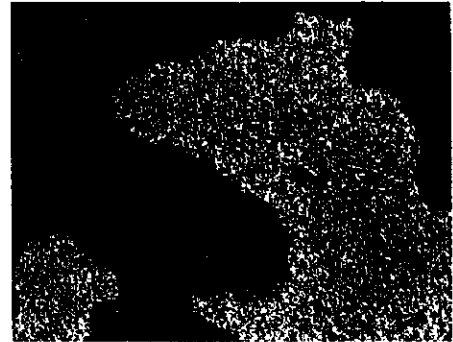
Results of EPMA analysis

A-015

Sample Number : 2
 Acc. Voltage : 15 kV
 Current : 0.05 μ A



As, Sb, Pb

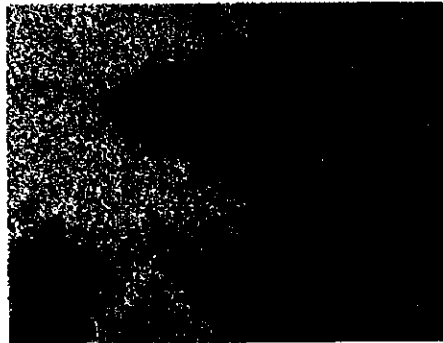


Distribution of selected elements

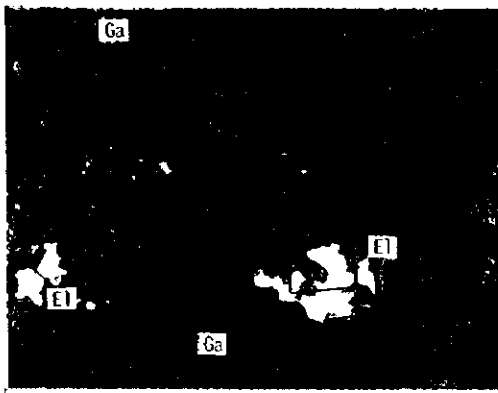
BSE image	Au
	Cu Ag



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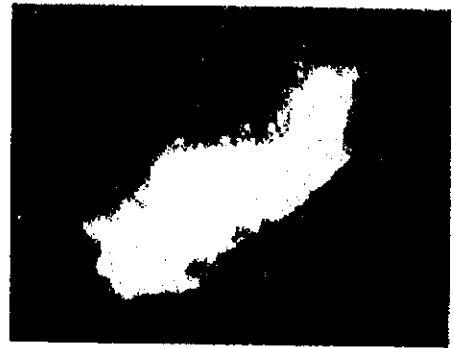
Fe O



Results of EPMA analysis

A 092

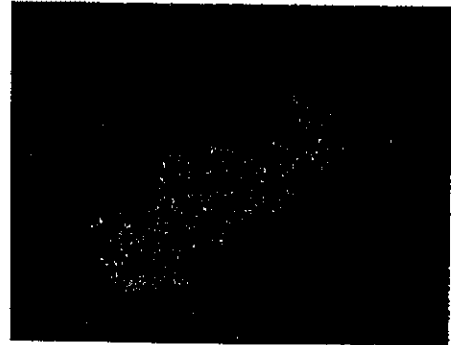
Sample Number : 3
 Acc. Voltage : 15 k v
 Current : 0.05 μ A



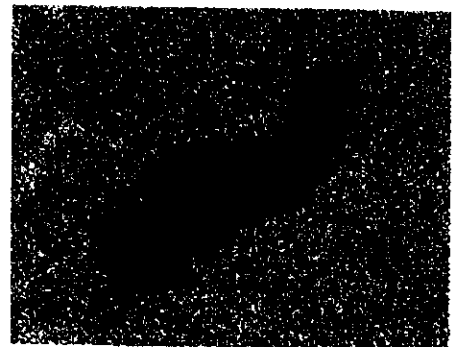
As, Sb, S, Fe

Distribution of selected elements

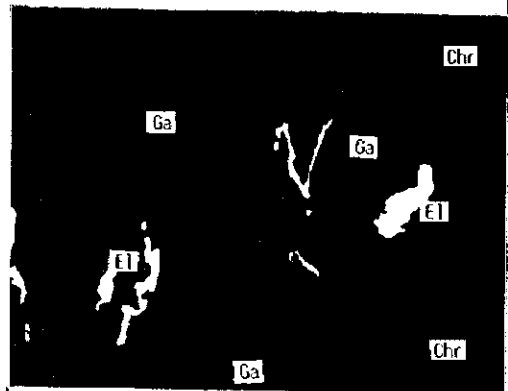
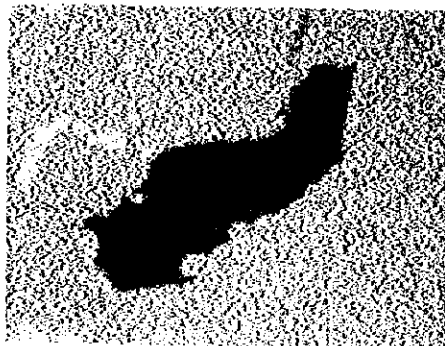
BSE image | Au
 Cu | Ag



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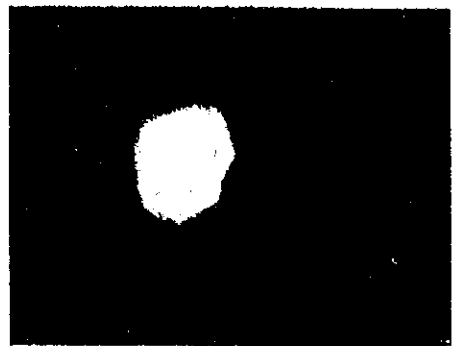
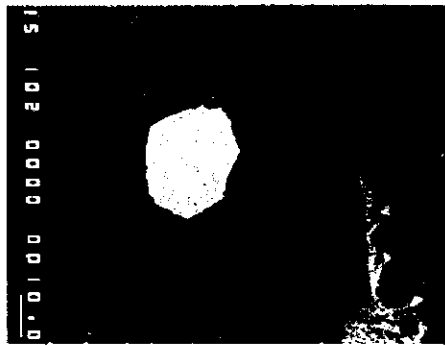
Fe | O
 Si



Results of EPMA analysis

A-113

Sample Number : 1
 Acc. Voltage : 15 kV
 Current : 0.05 μ A



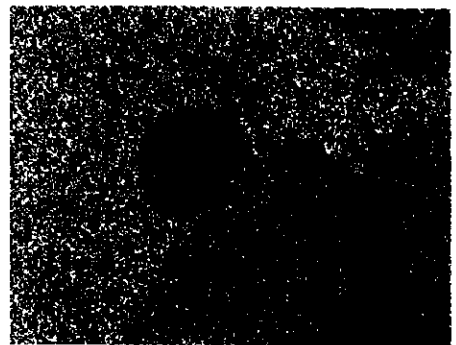
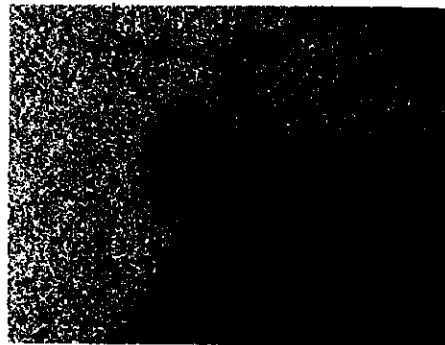
As, Sb, S, ...

Distribution of selected elements

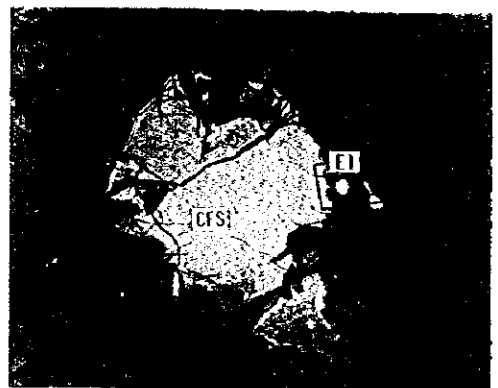
BSE image | Au
 Cu | Ag



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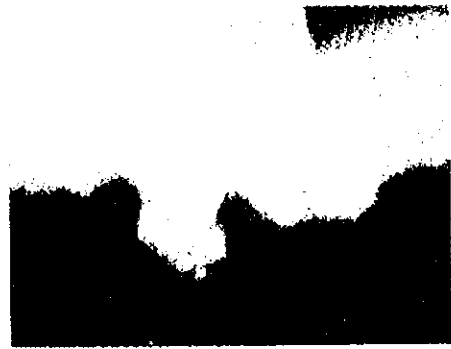
Fe | O
 Si |



Results of EPMA analysis

TI-150

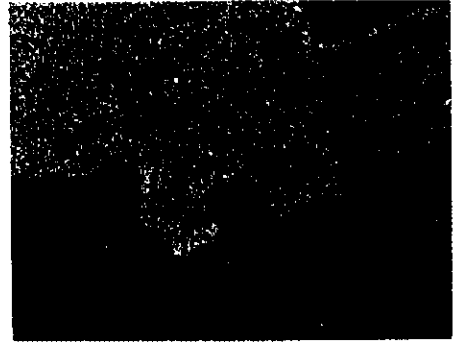
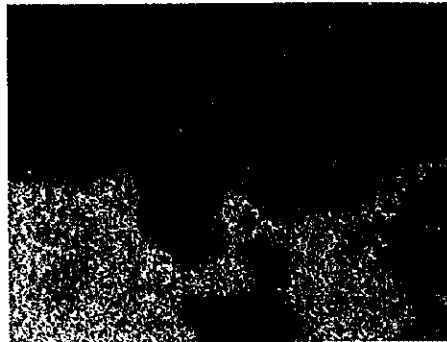
Sample Number : 5
 Acc. Voltage : 15 kV
 Current : 0.05 μ A



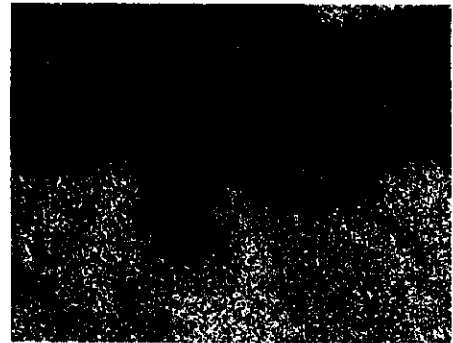
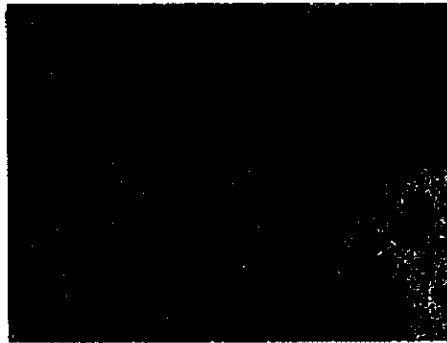
As, Sb, S, Pb

Distribution of selected elements

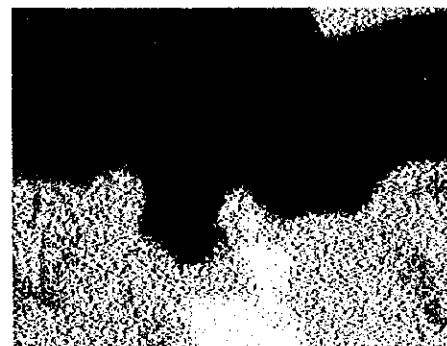
BSE Image | Au
 Cu | Ag



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Fe O
 Si





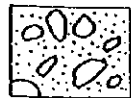
Appendix 12 Results of Isotopic Dating in K-Ar Method

Sample No.	Specimen and locality	Material Analyzed	Isotopic Age (Ma)	Radiogenic ^{40}Ar (10^{-5} scc/g)	% $^{40}\text{Ar}^{*1}$	K (wt%)
T1-212	altered biotite-hornblende granodiorite porphyry from trench T1	whole rock	261±13	3.02 3.15	99.1 98.2	2.82 2.83
T2-226	altered hornblende granodiorite porphyry from trench T2	whole rock	262±13	2.93 3.10	98.8 97.9	2.82 2.75
A-018	weakly altered granodiorite porphyry from the west of Kichi-Sandyk district	whole rock	274±14	3.36 3.39	96.4 98.4	2.94 2.93
A-134	fresh, coarse grained quartz monzonite from the south-west of Kichi-Sandyk district	whole rock	304±15	3.81 3.81	98.4 97.9	2.97 2.96

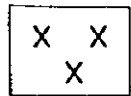
* 1 : air contamination(%)

Appendix 13 Sketches of Trenches in the Kichi-Sandyk Deposit
(T-1, T-2, T-3)

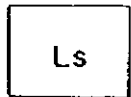
LEGEND



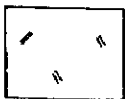
Soil, sand, ancient extraction



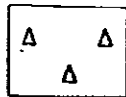
Granodiorite Porphyry



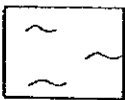
Limestone



Skarnization



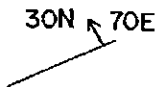
Crushed Zone



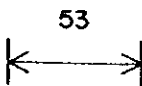
Argillic Alteration



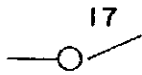
Mineralization
(green Cu, Cp, Bn, Py)



Strike and dip
(joint & fracture)



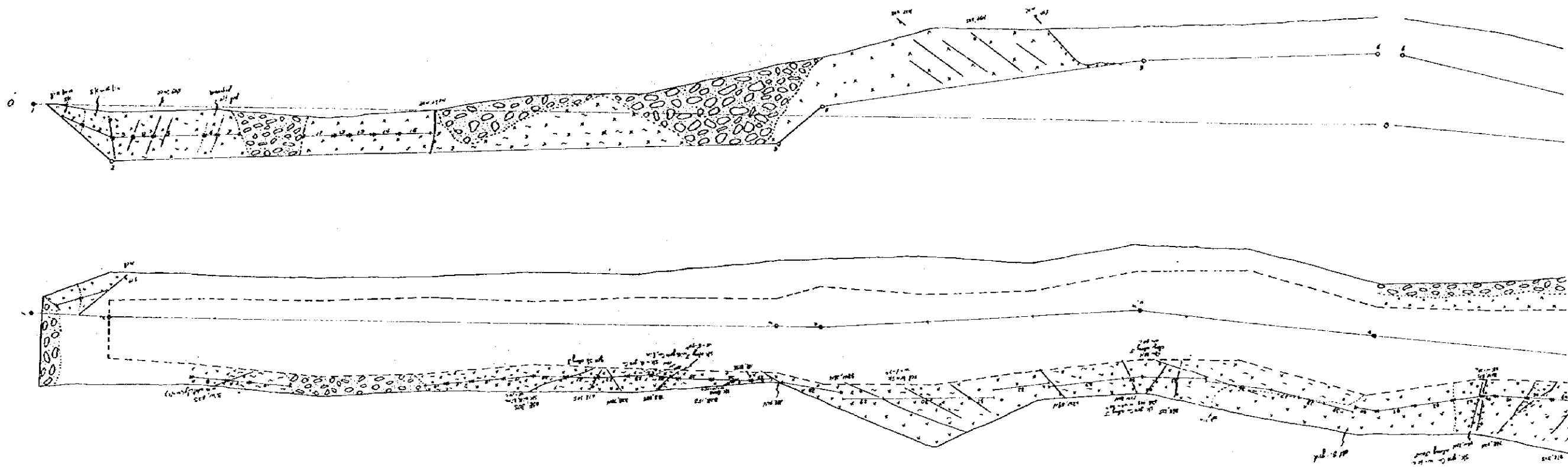
Sample for chemical assay
and collecting length



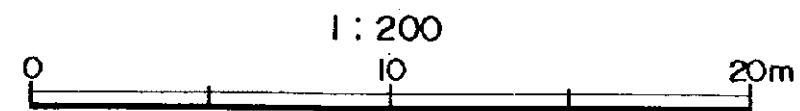
Surveying point

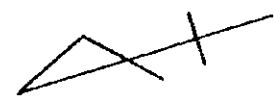
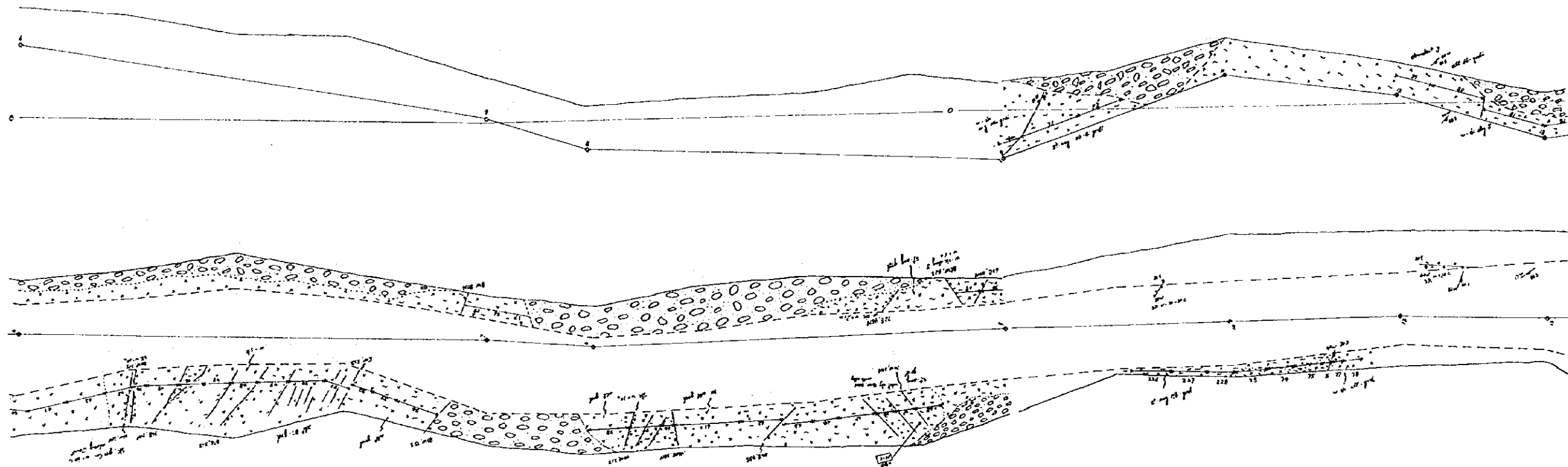
98	1.50	80
99	3.20	150

sampleNo. Au(g/t) length (cm)

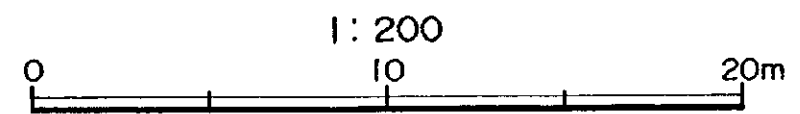


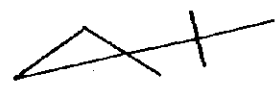
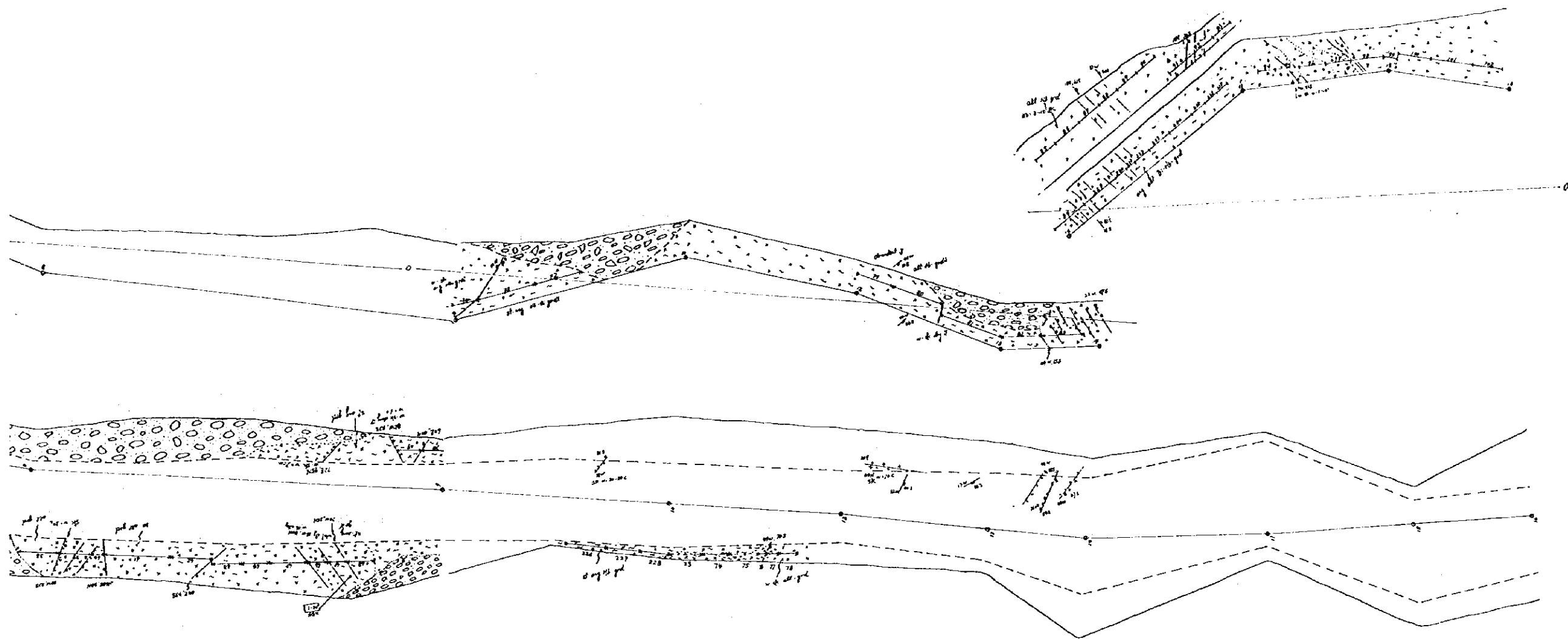
SKETCHES OF TRENCH T-1(1/7)



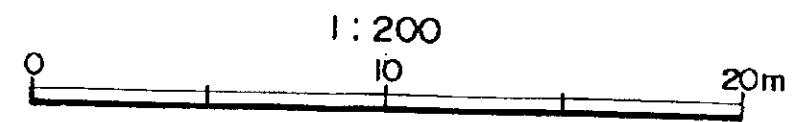


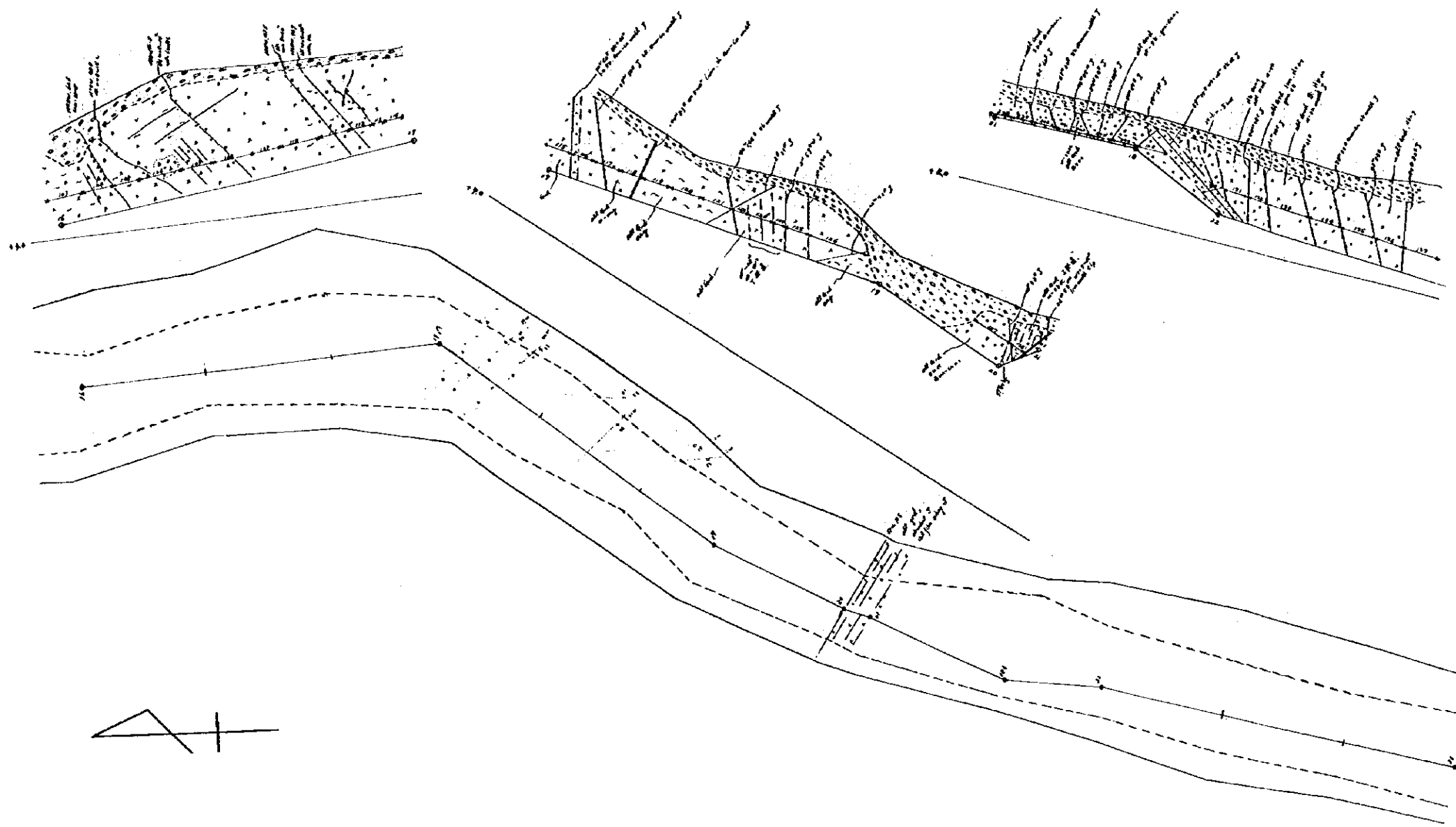
SKETCHES OF TRENCH T-1(2/7)



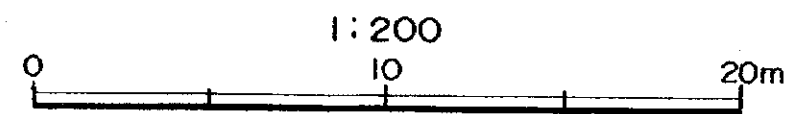


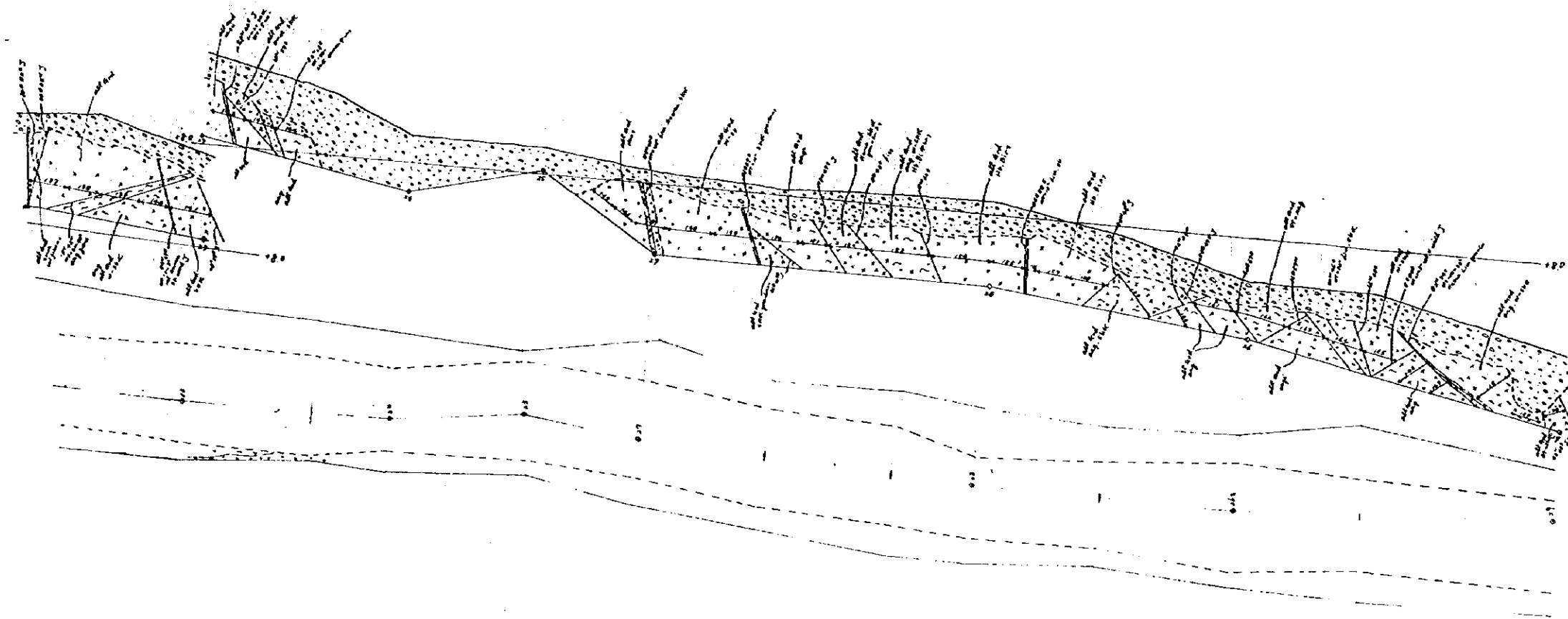
SKETCHES OF TRENCH T-1(3/7)





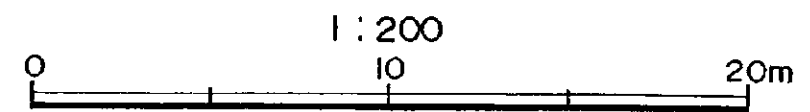
SKETCHES OF TRENCH T-1(4/7)

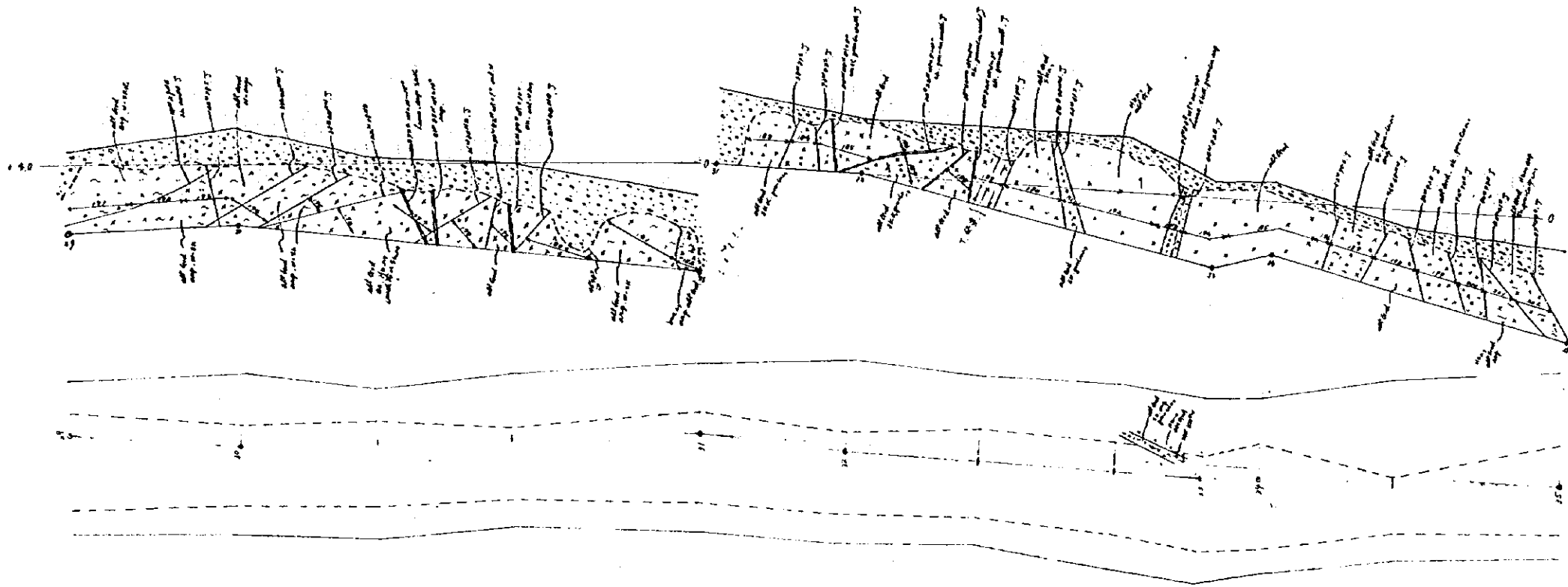




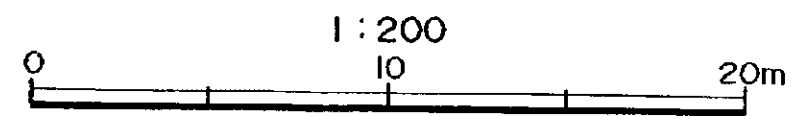
A+

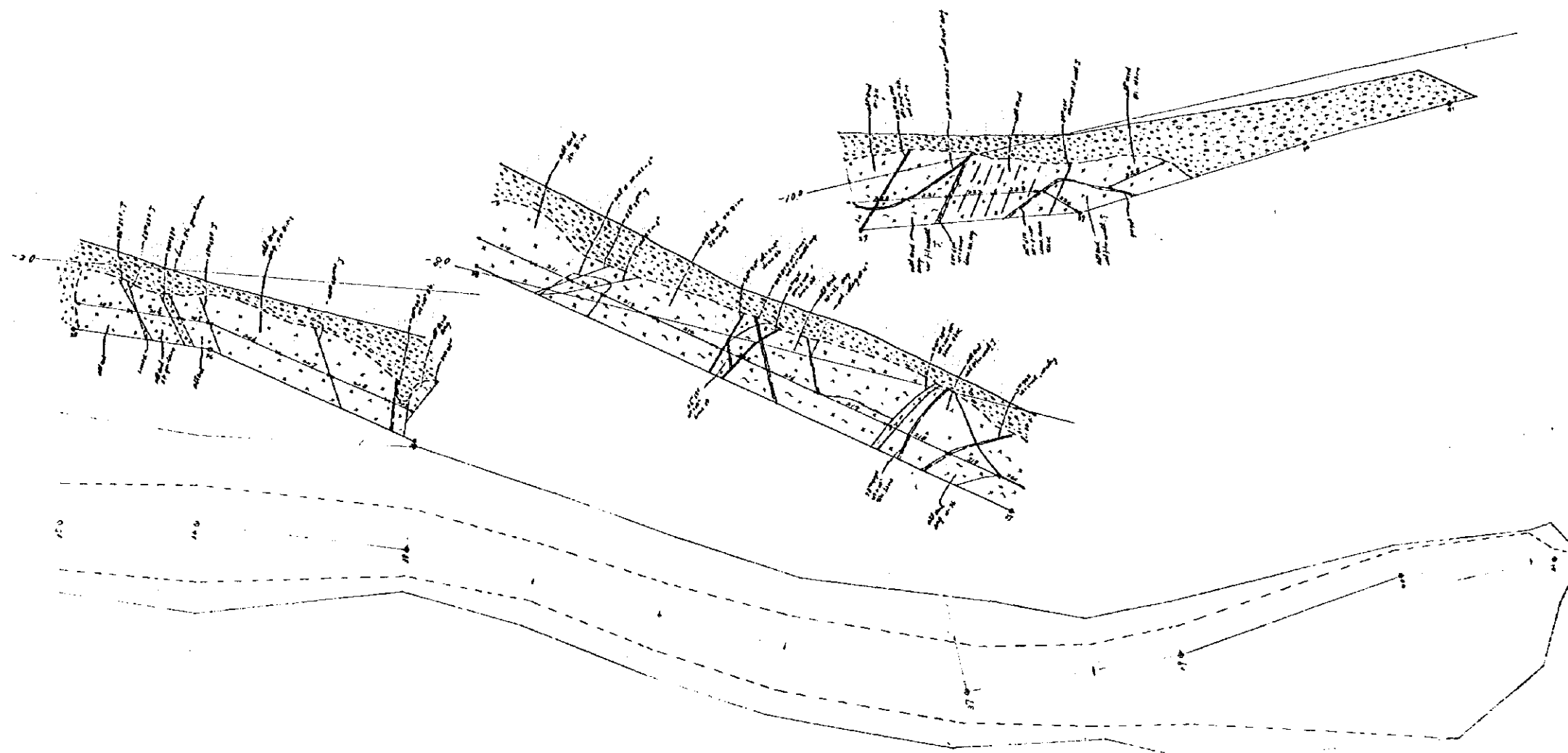
SKETCHES OF TRENCH T-1(5/7)



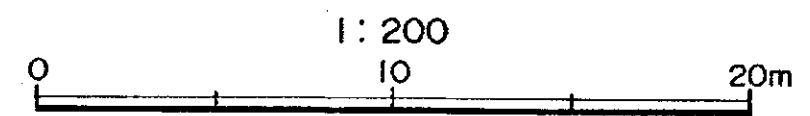


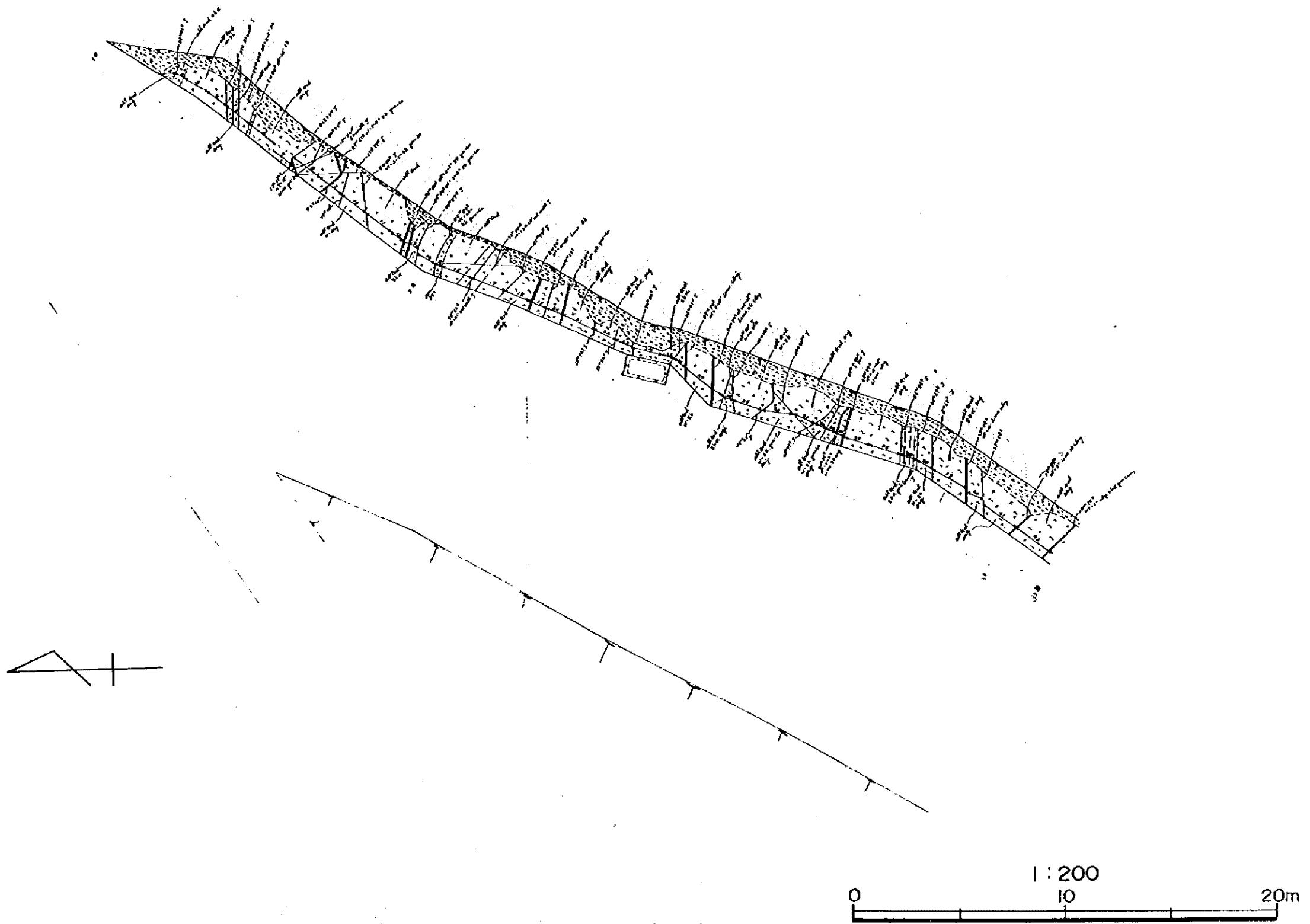
SKETCHES OF TRENCH T-1(6/7)



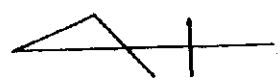
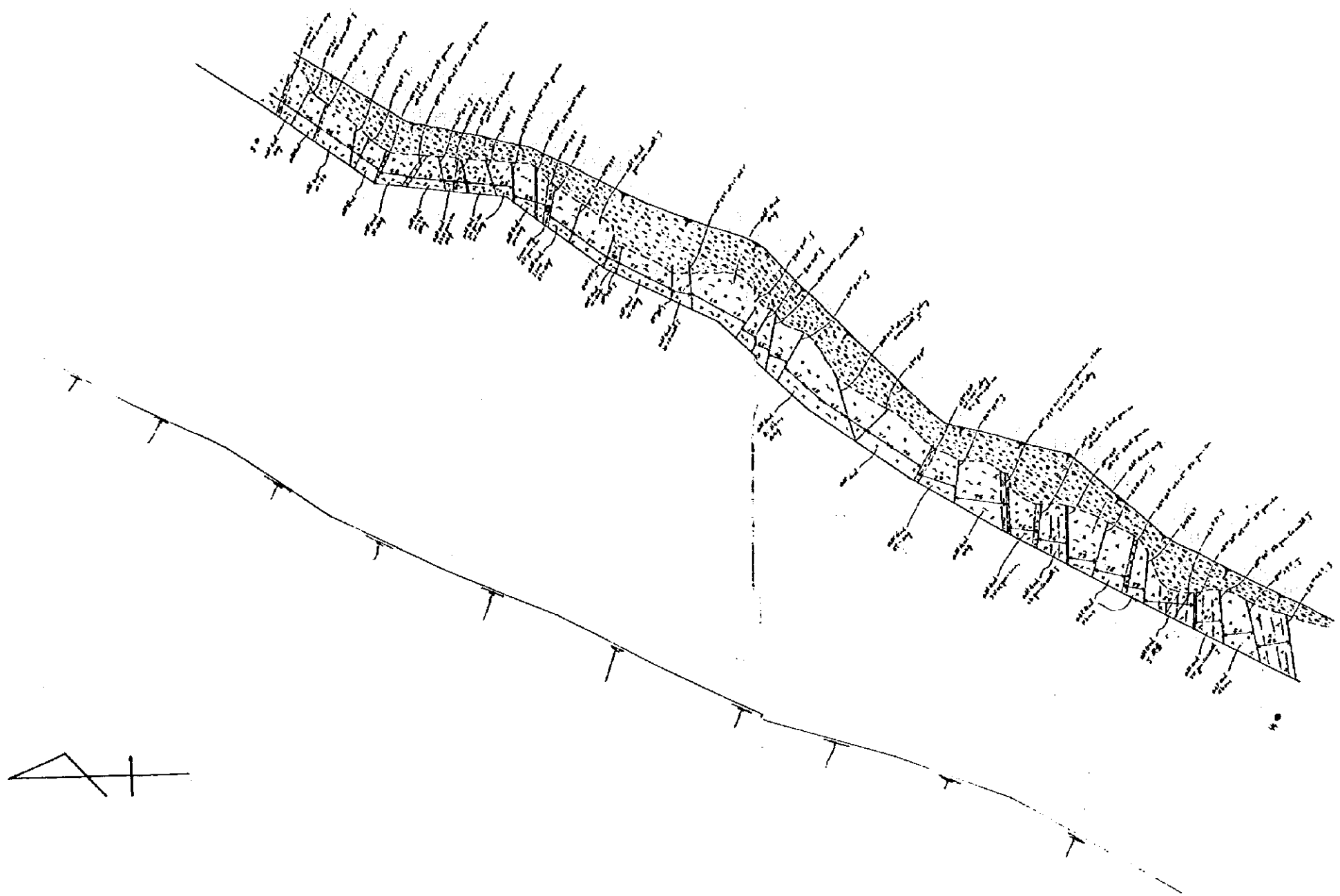


SKETCHES OF TRENCH T-1(7/7)

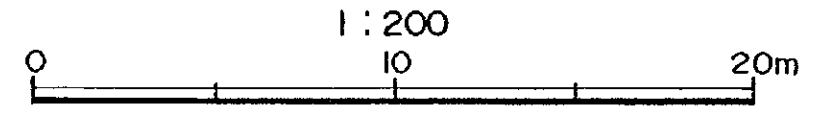


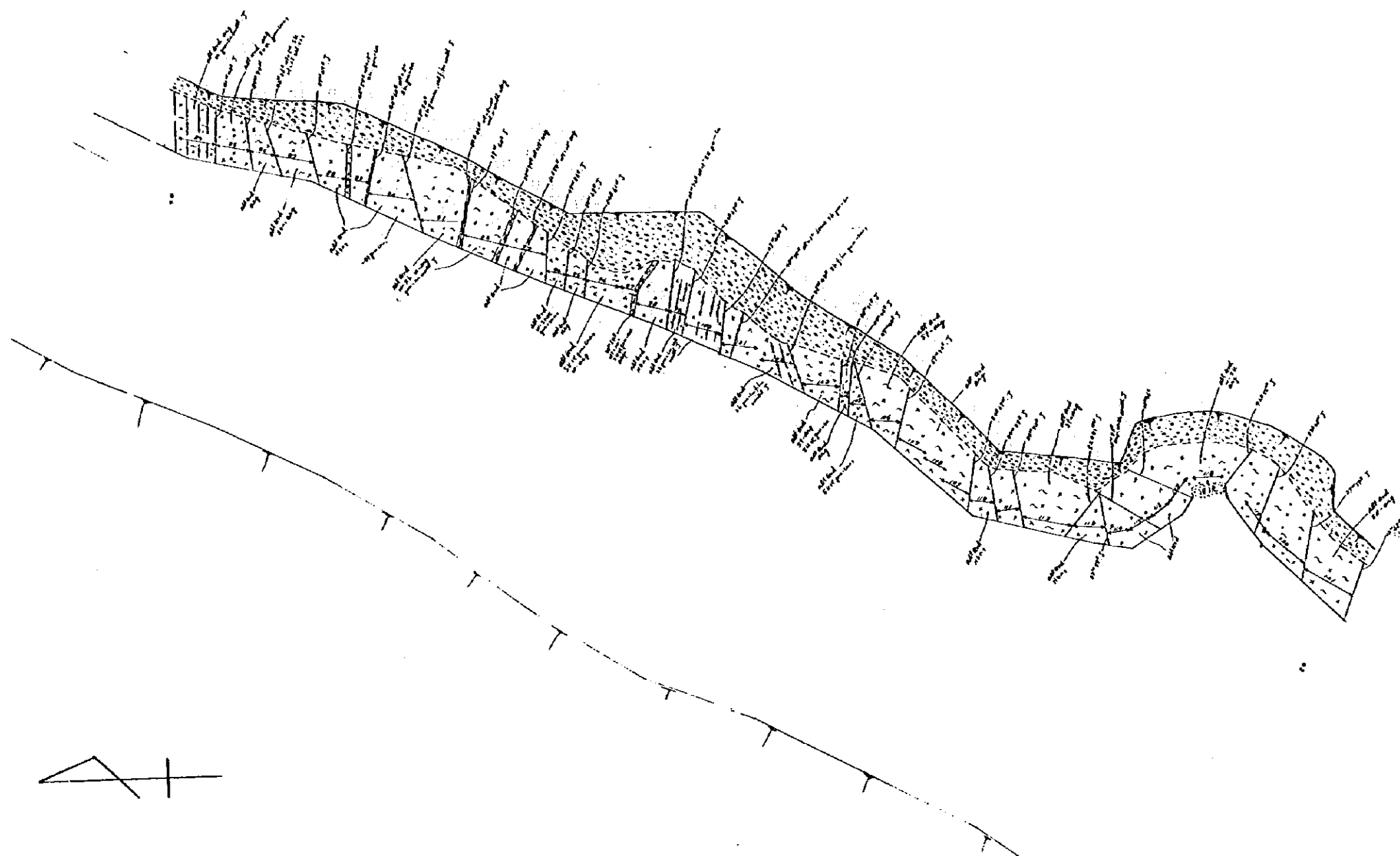


SKETCHES OF TRENCH T-2(1/9)

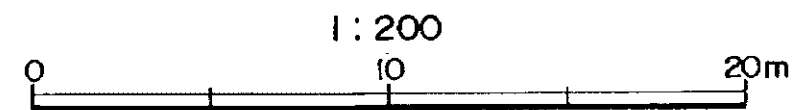


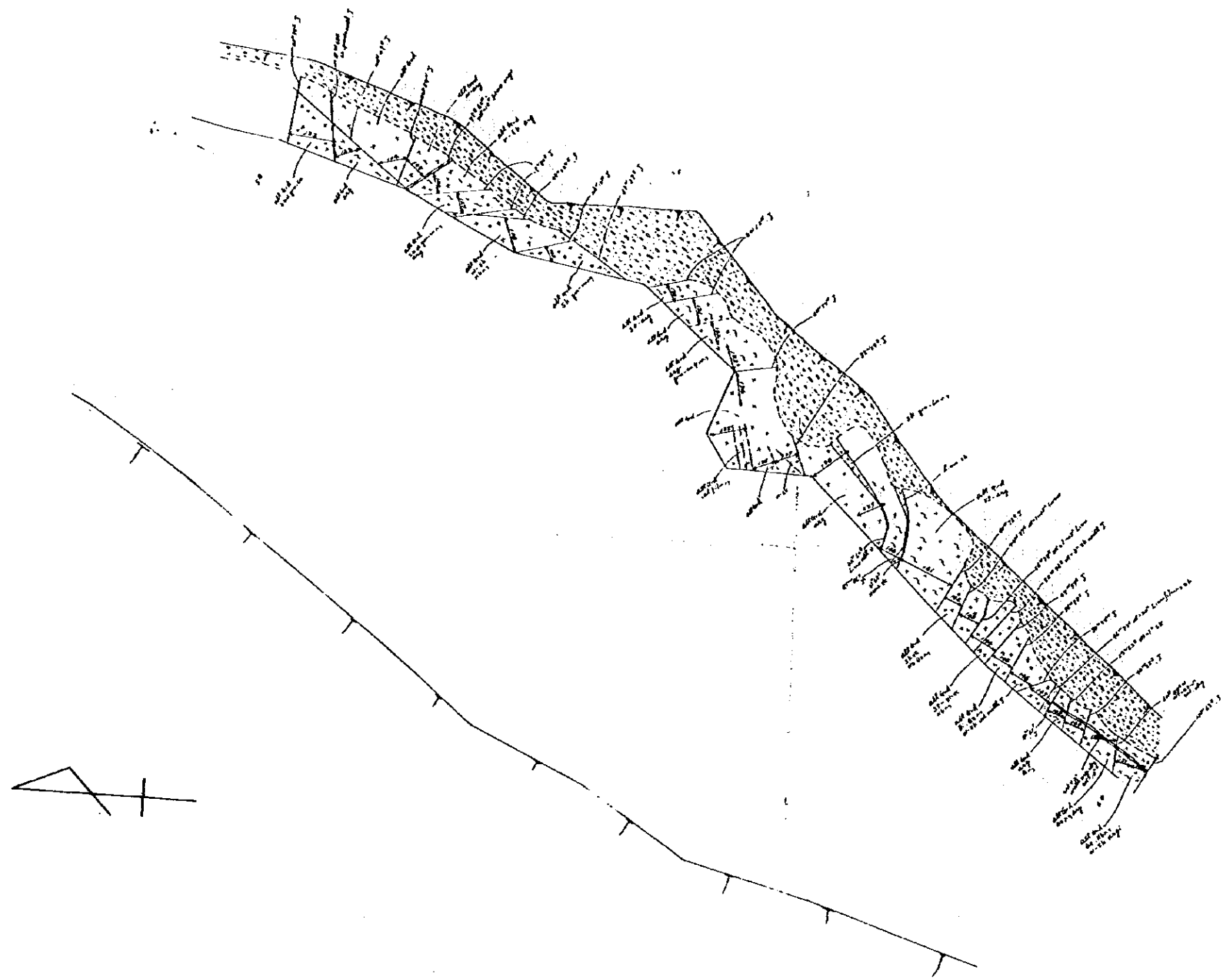
SKETCHES OF TRENCH T-2(2/9)



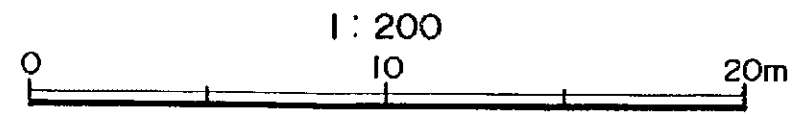


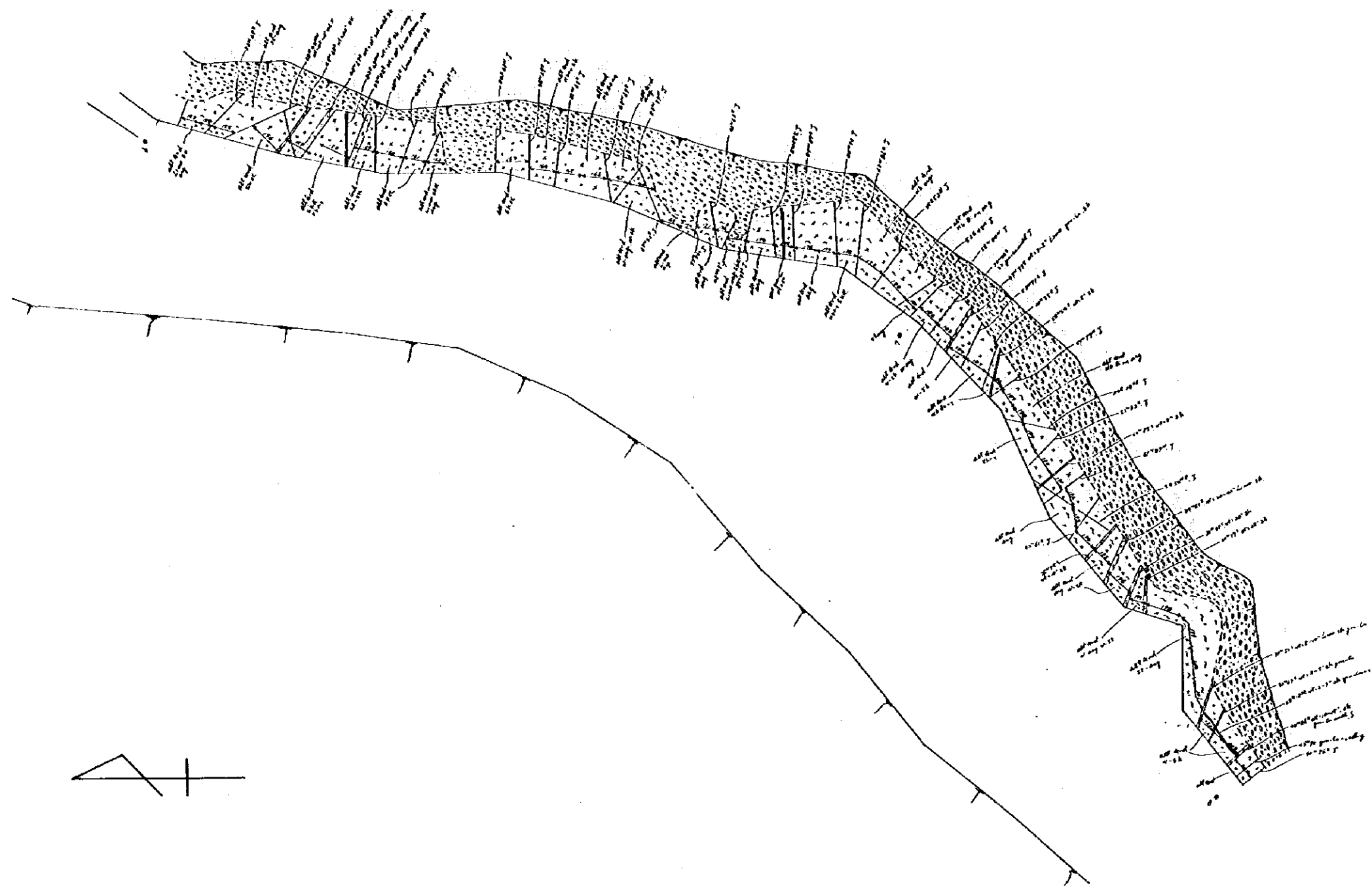
SKETCHES OF TRENCH T-2(3/9)



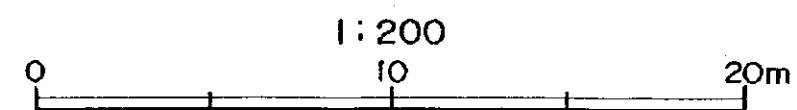


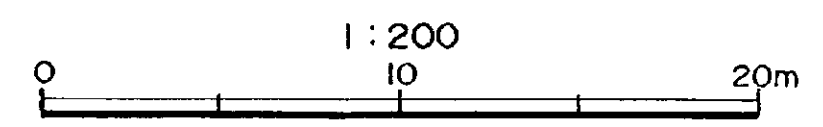
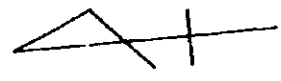
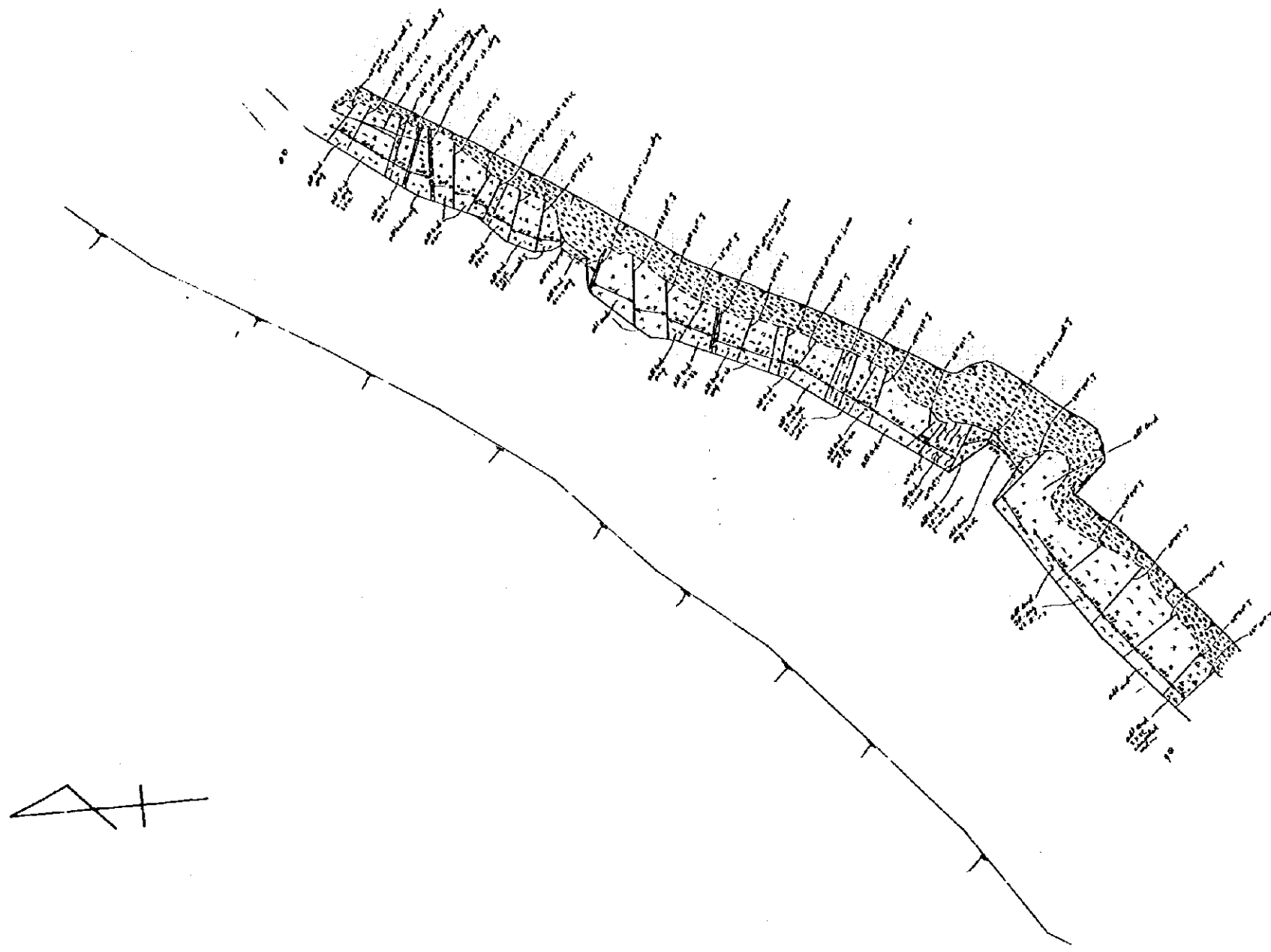
SKETCHES OF TRENCH T-2(4/9)



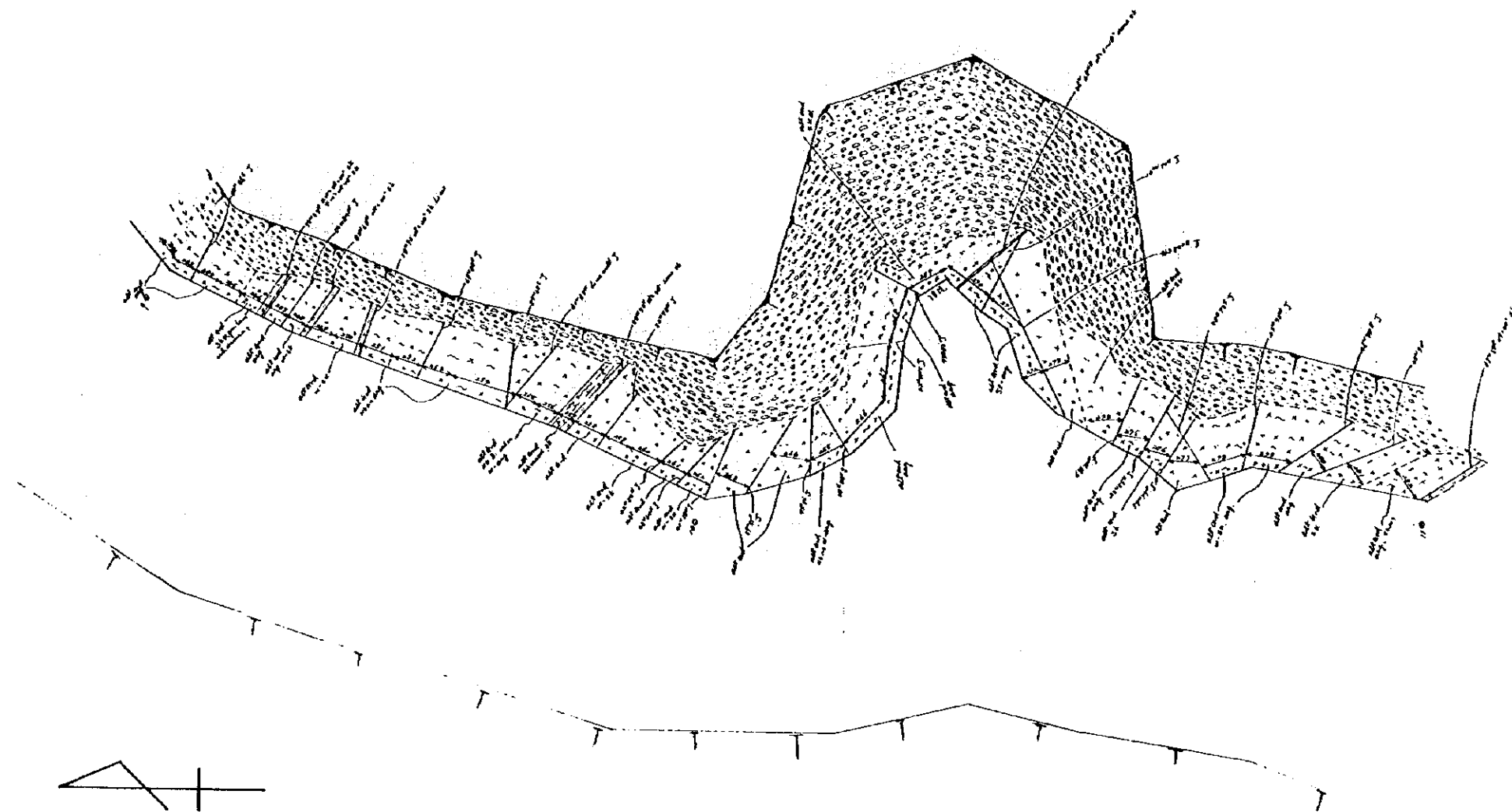


SKETCHES OF TRENCH T-2(5/9)

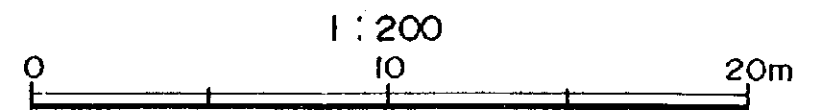


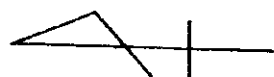
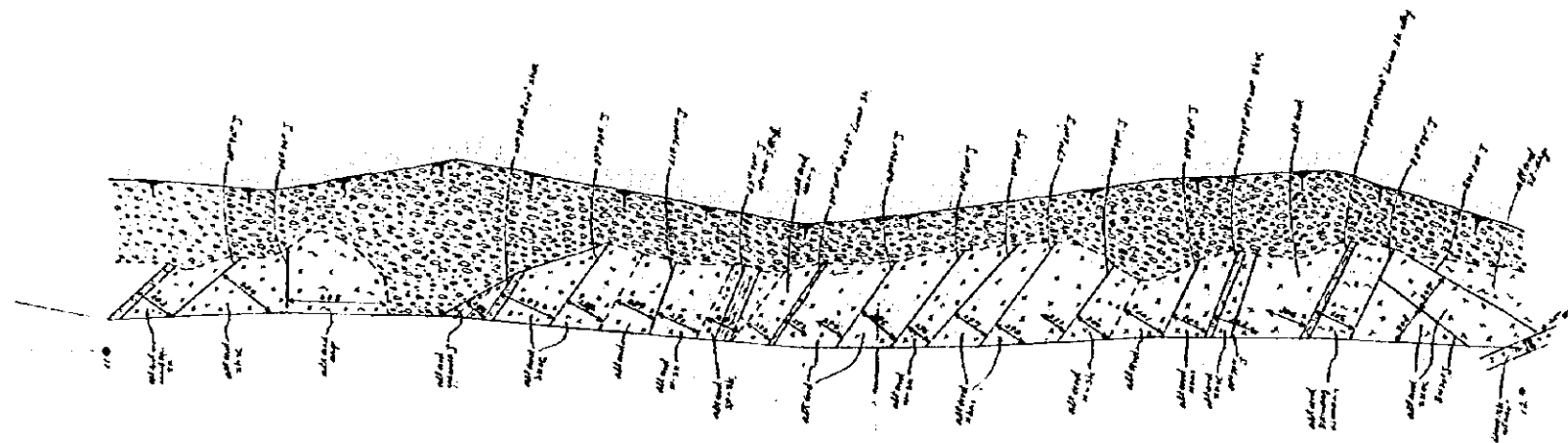


SKETCHES OF TRENCH T-2(6/9)

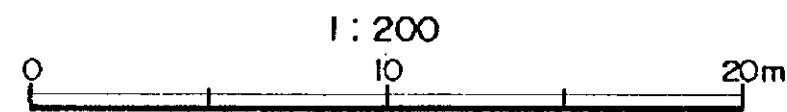


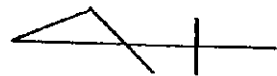
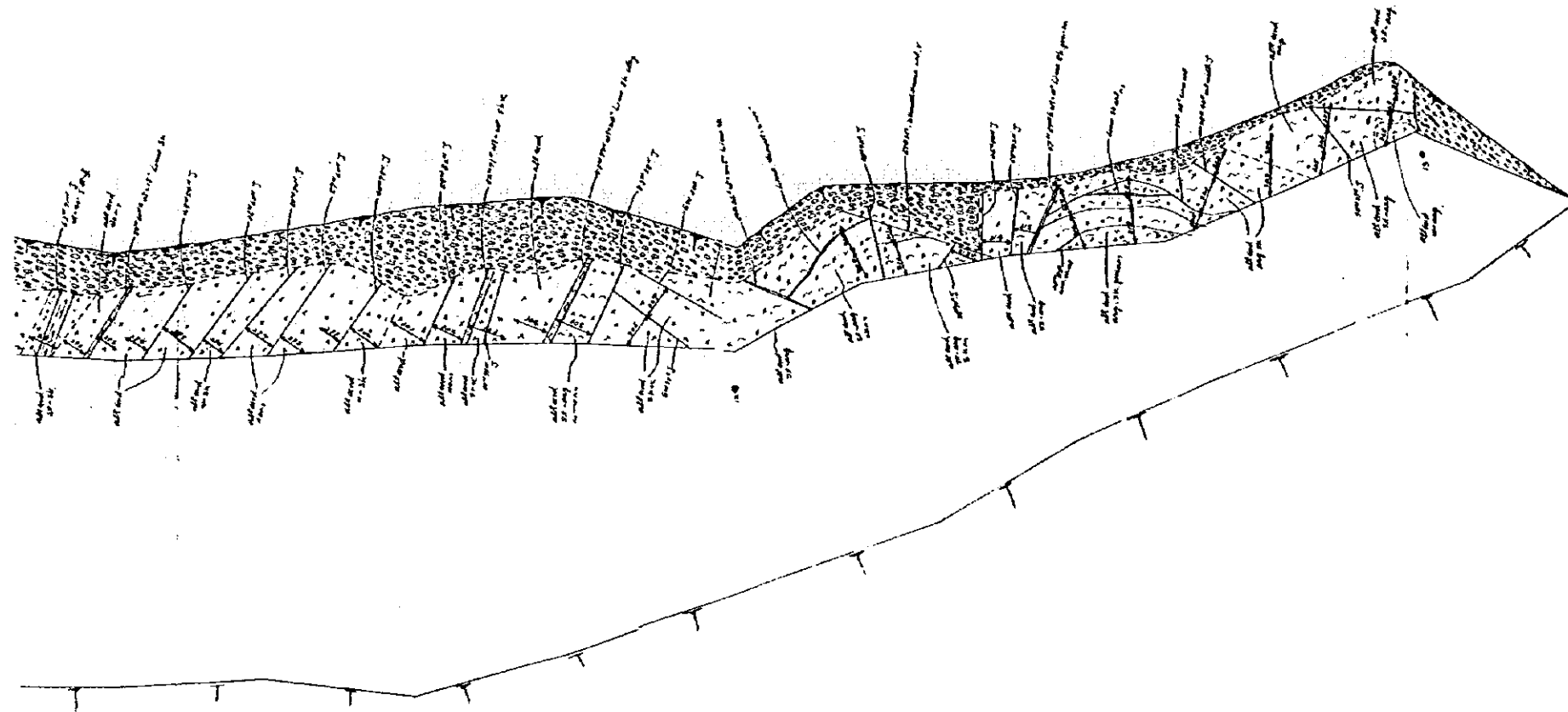
SKETCHES OF TRENCH T-2(7/9)



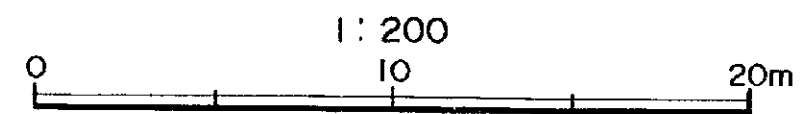


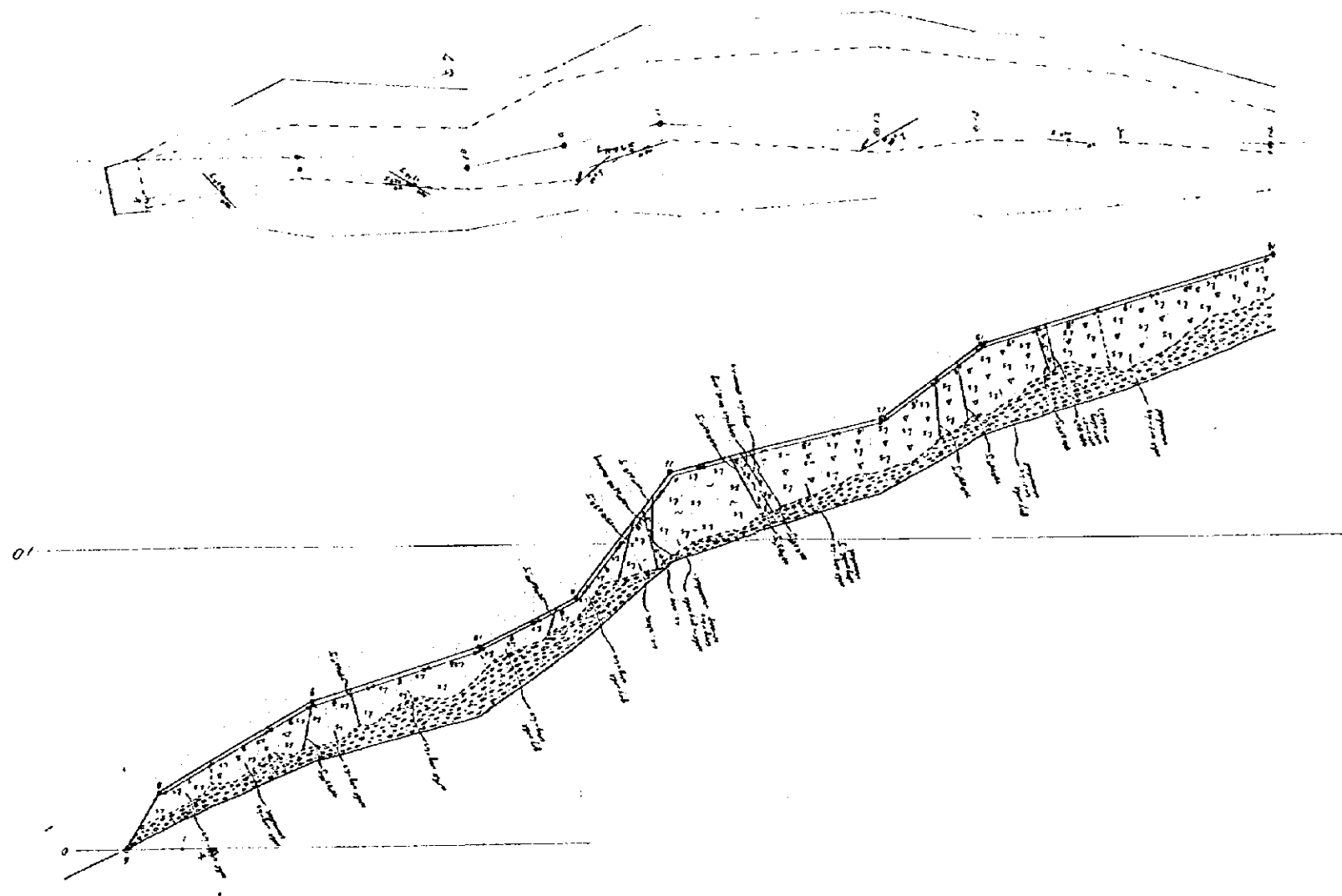
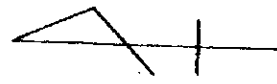
SKETCHES OF TRENCH T-2(8/9)



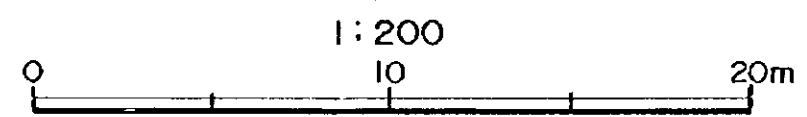


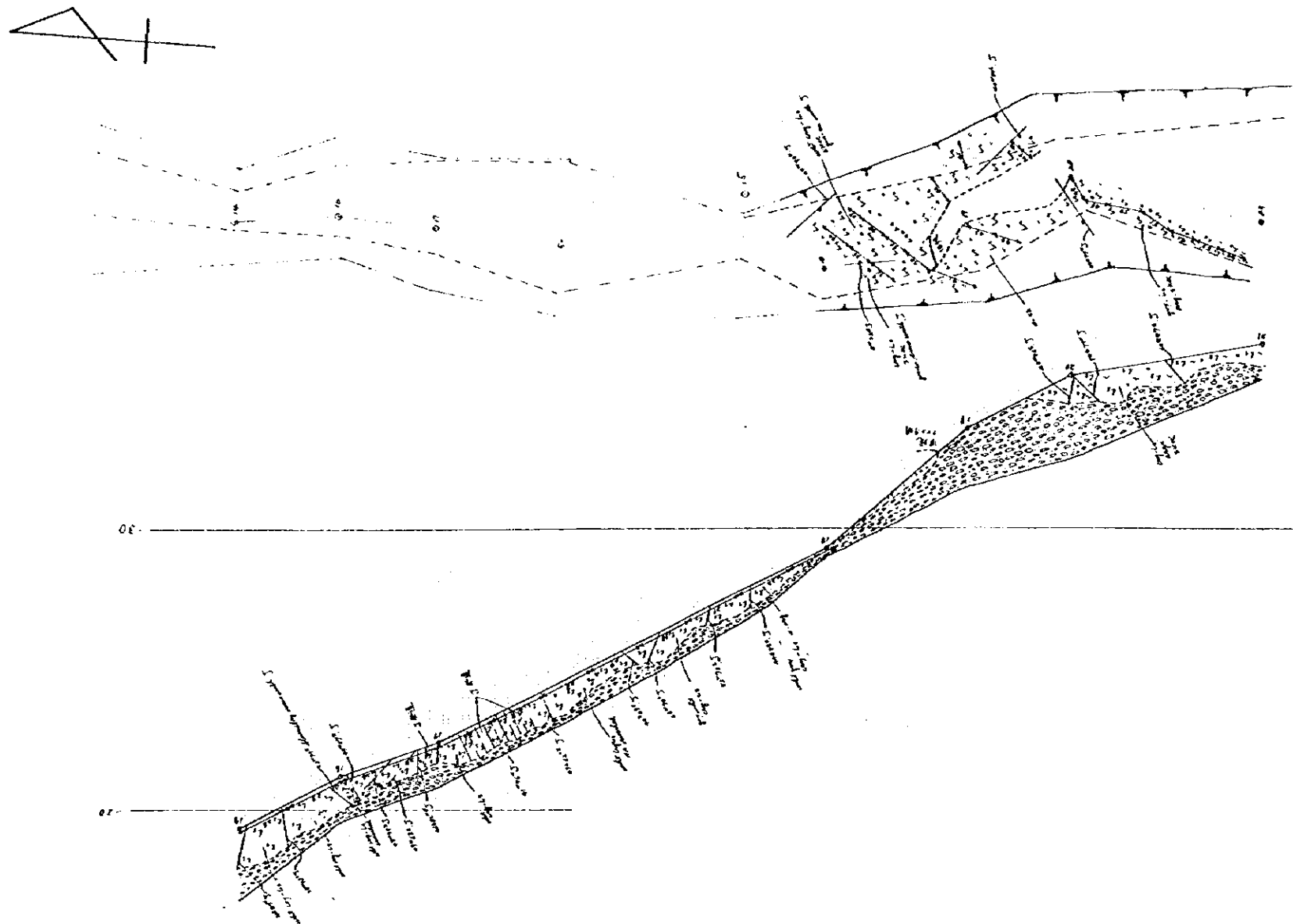
SKETCHES OF TRENCH T-2(9/9)



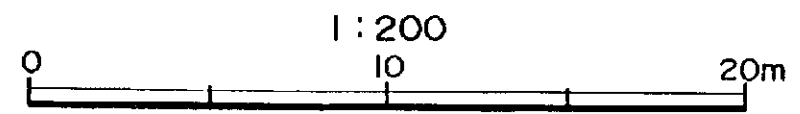


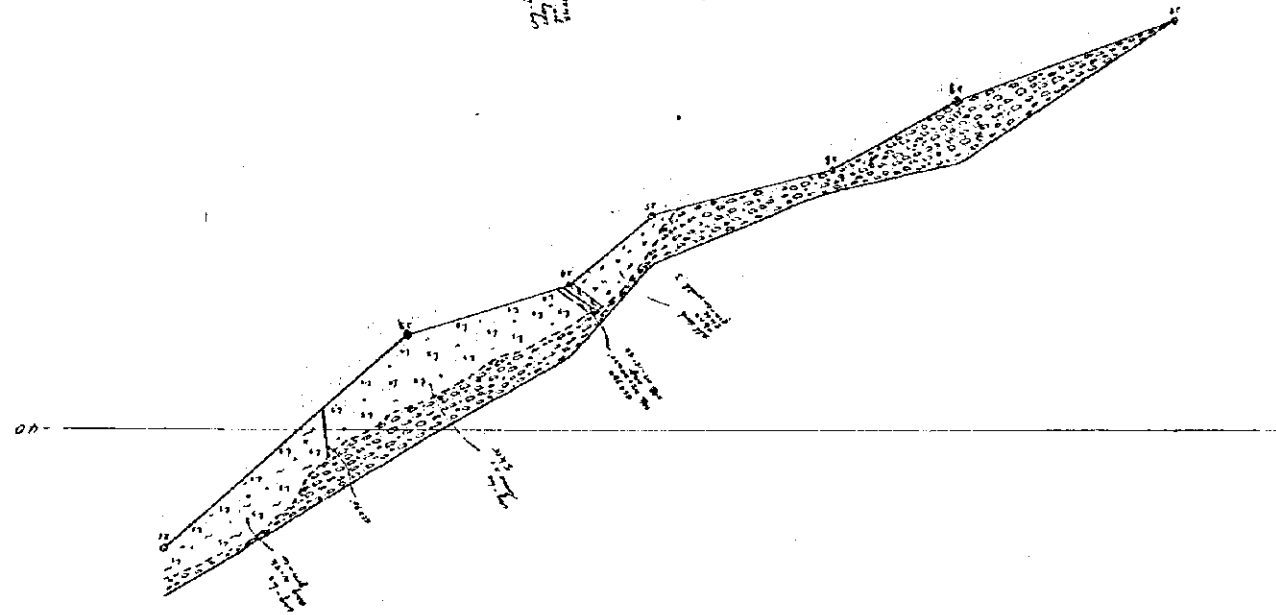
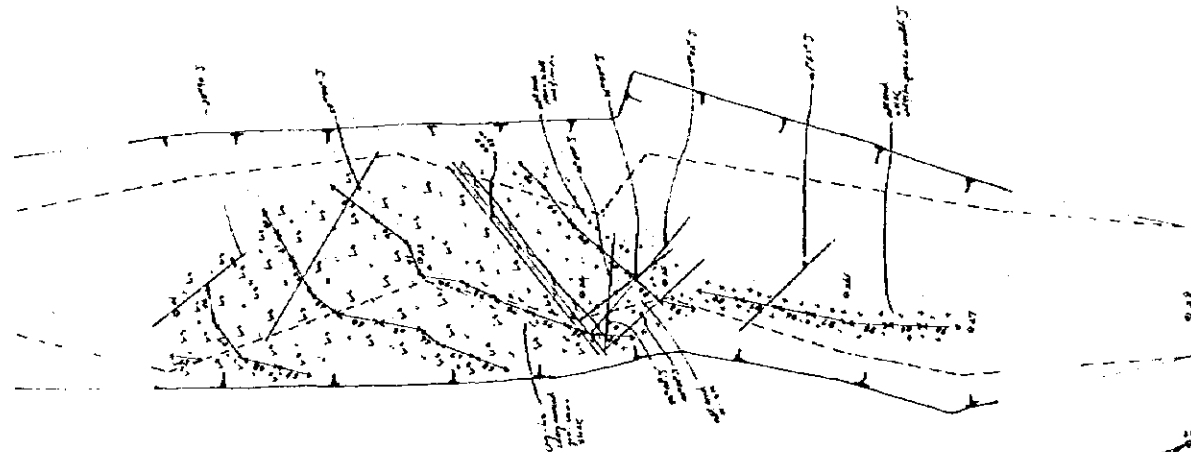
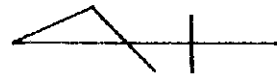
SKETCHES OF TRENCH T-3(1/3)





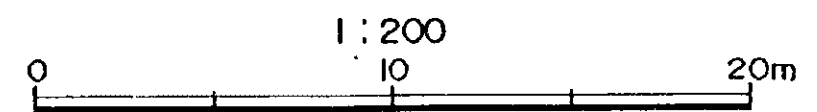
SKETCHES OF TRENCH T-3(2/3)





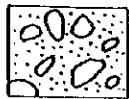
0.5 -

SKETCHES OF TRENCH T-3(3/3)

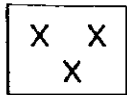


Appendix 14 Sketches of Trenches in the Kichi-Sandyk Deposit
(R-1, R-2)

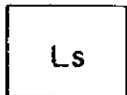
LEGEND



Soil, sand, ancient extraction



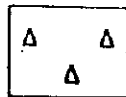
Granodiorite Porphyry



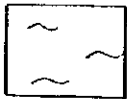
Limestone



Skarnization



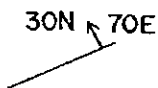
Crushed Zone



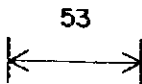
Argillic Alteration



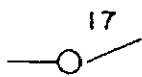
Mineralization
(green Cu, Cp, Bn, Py)



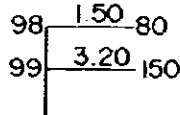
Strike and dip
(joint & fracture)



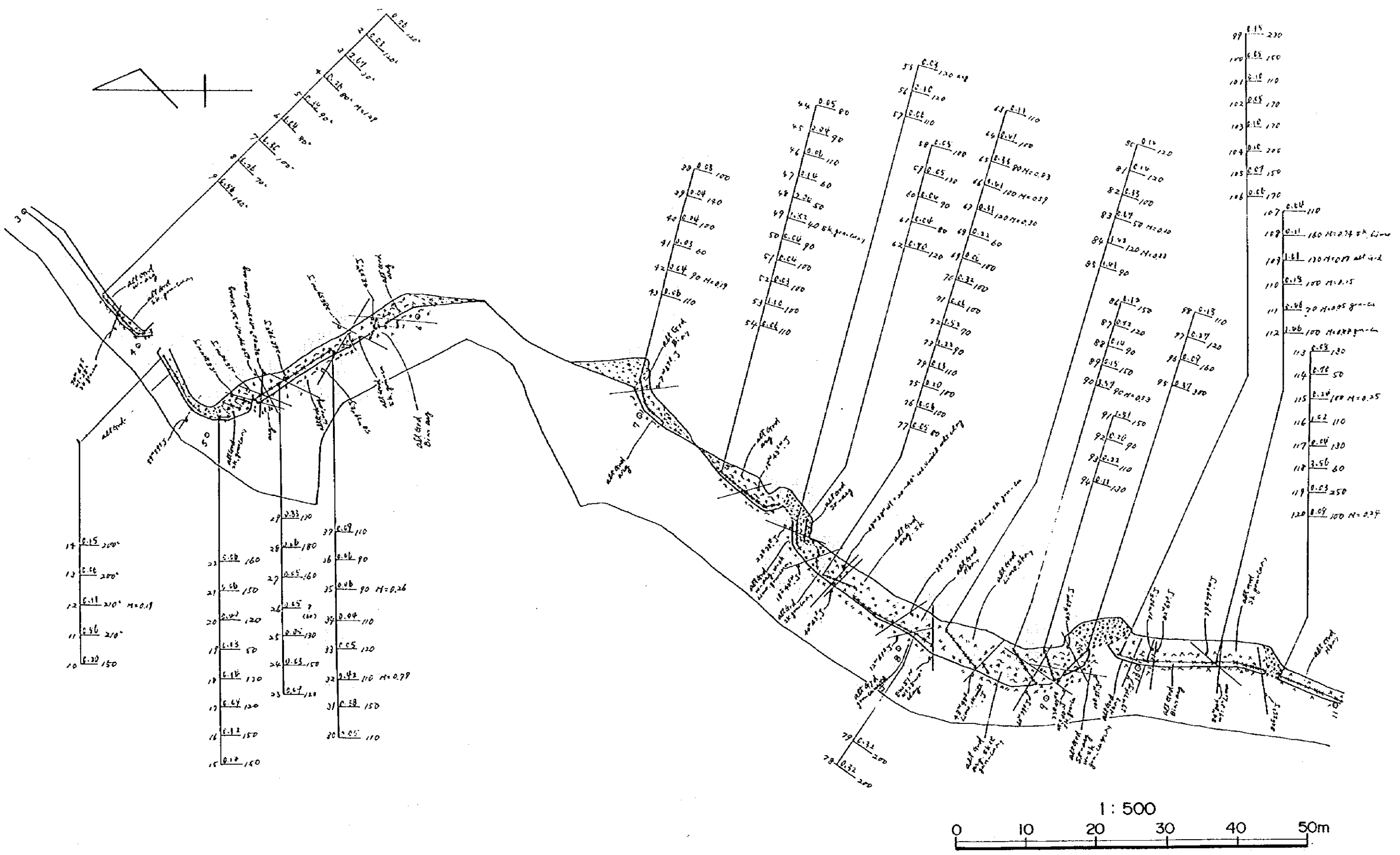
Sample for chemical assay
and collecting length



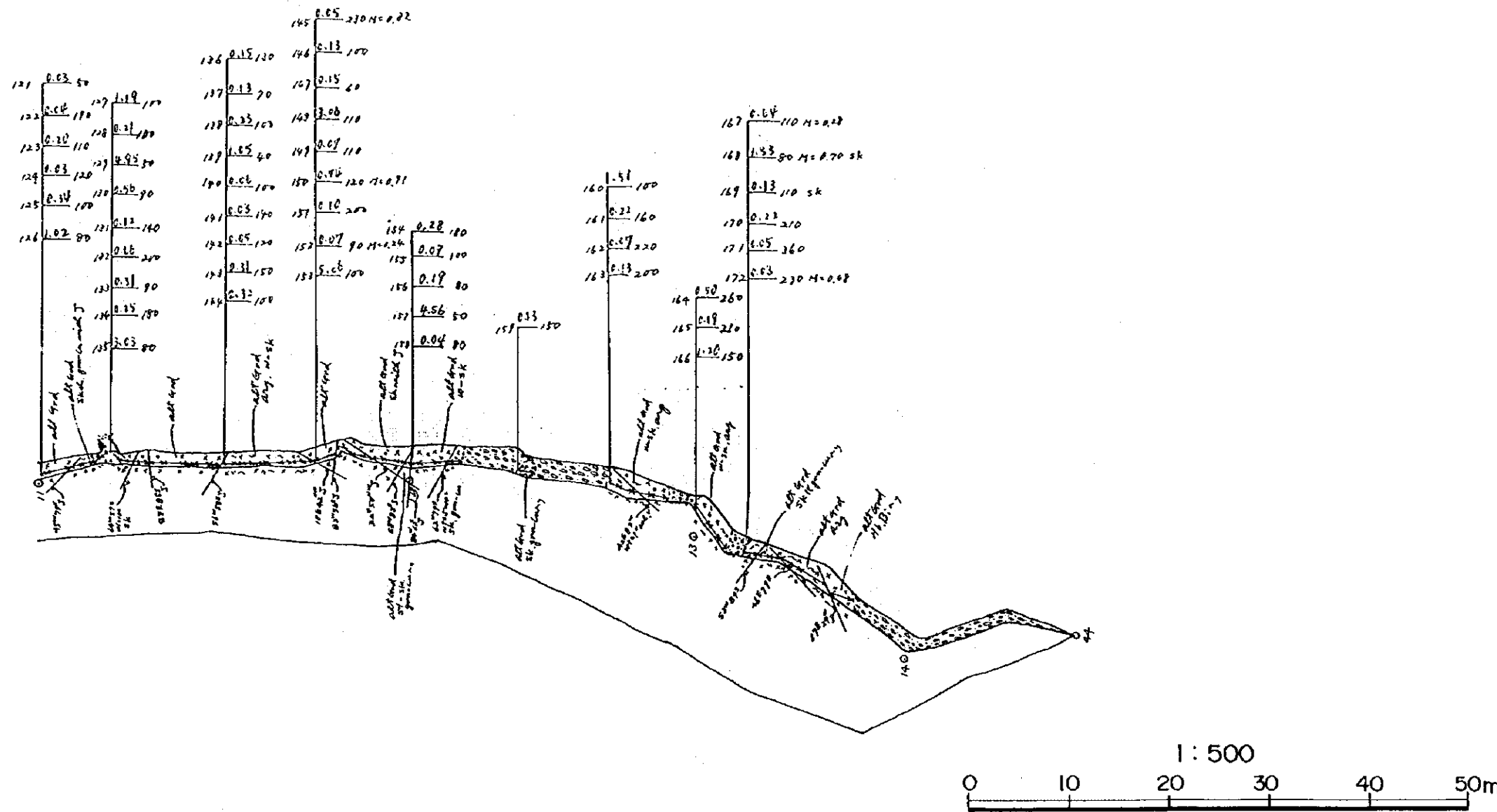
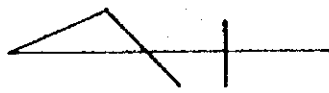
17
Surveying point



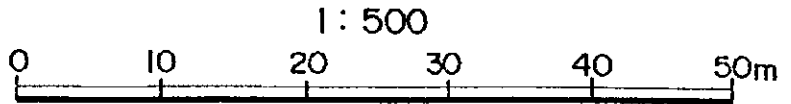
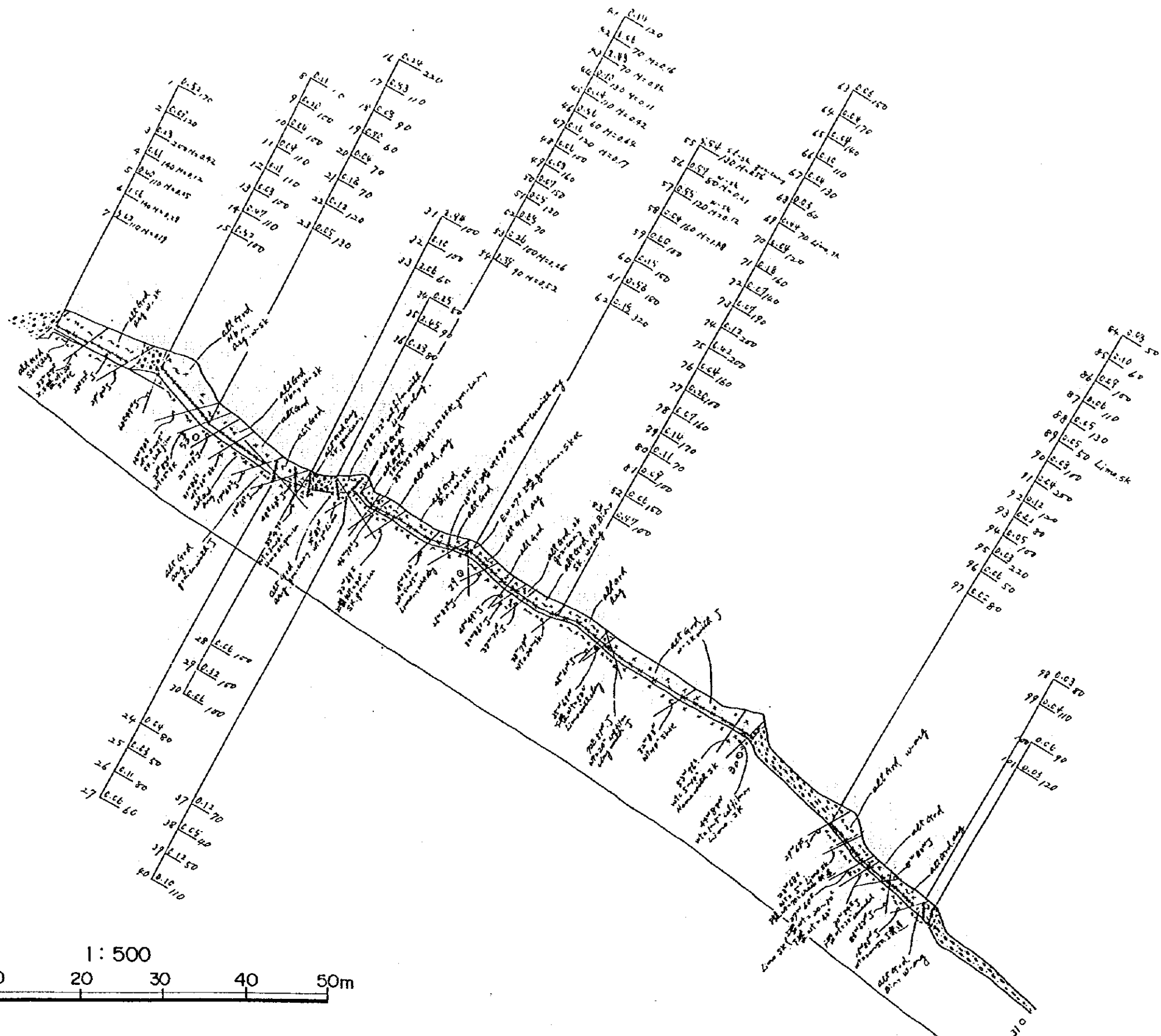
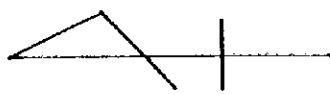
sampleNo $\frac{\text{Au(g/t)}}{\text{length(cm)}}$



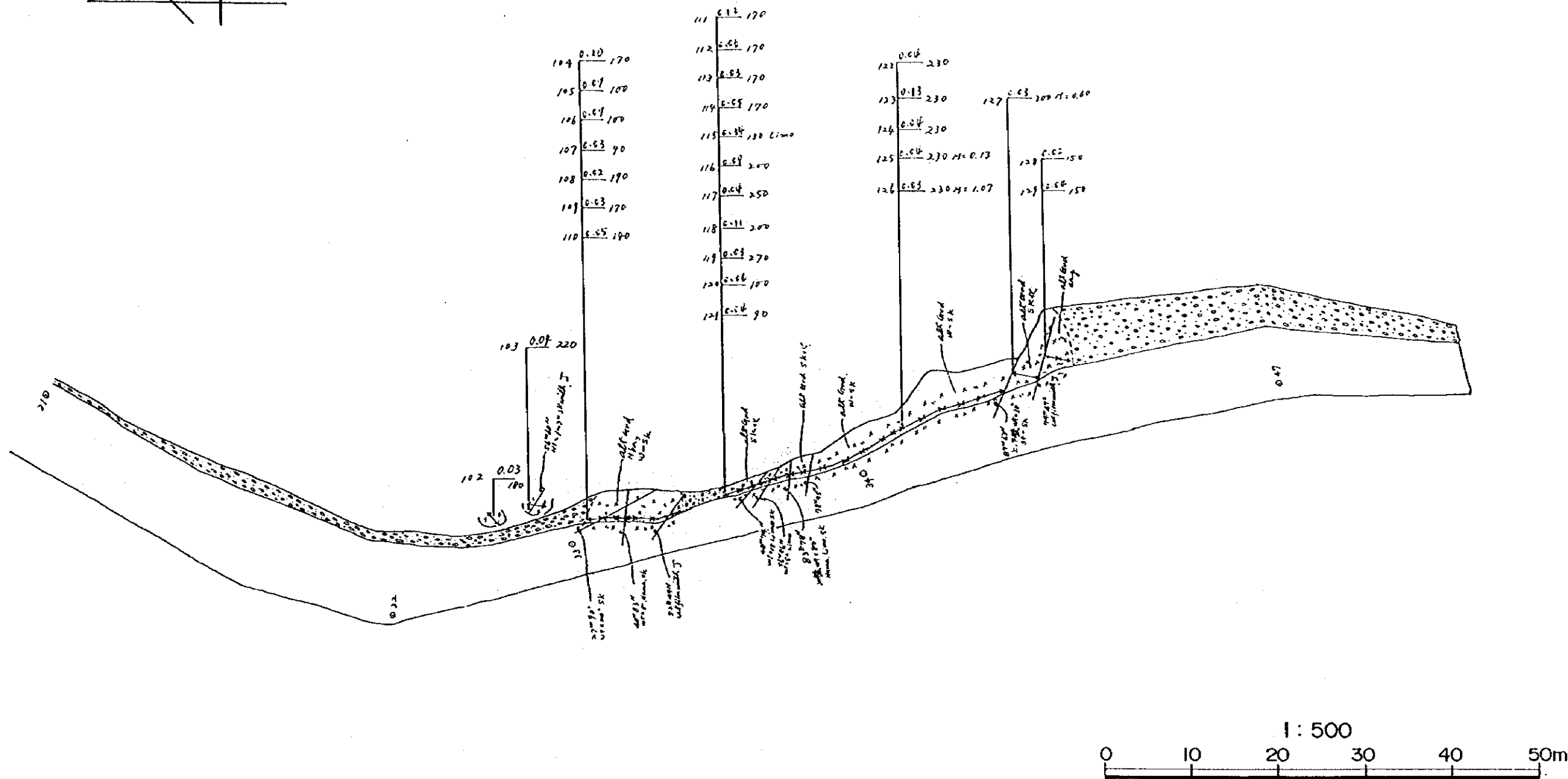
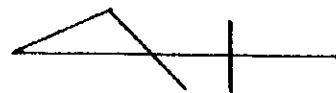
SKETCHES OF TRENCH R-1 (1/2)



SKETCHES OF TRENCH R-1 (2/2)



SKETCHES OF TRENCH R-2 (1/2)



SKETCHES OF TRENCH R-2 (2/2)

2,800
3,000

3,000

3,200

3,400

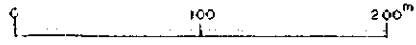
3,600

3,800

4,000

4,200

4,400



5,400

5,200

5,000

4,800

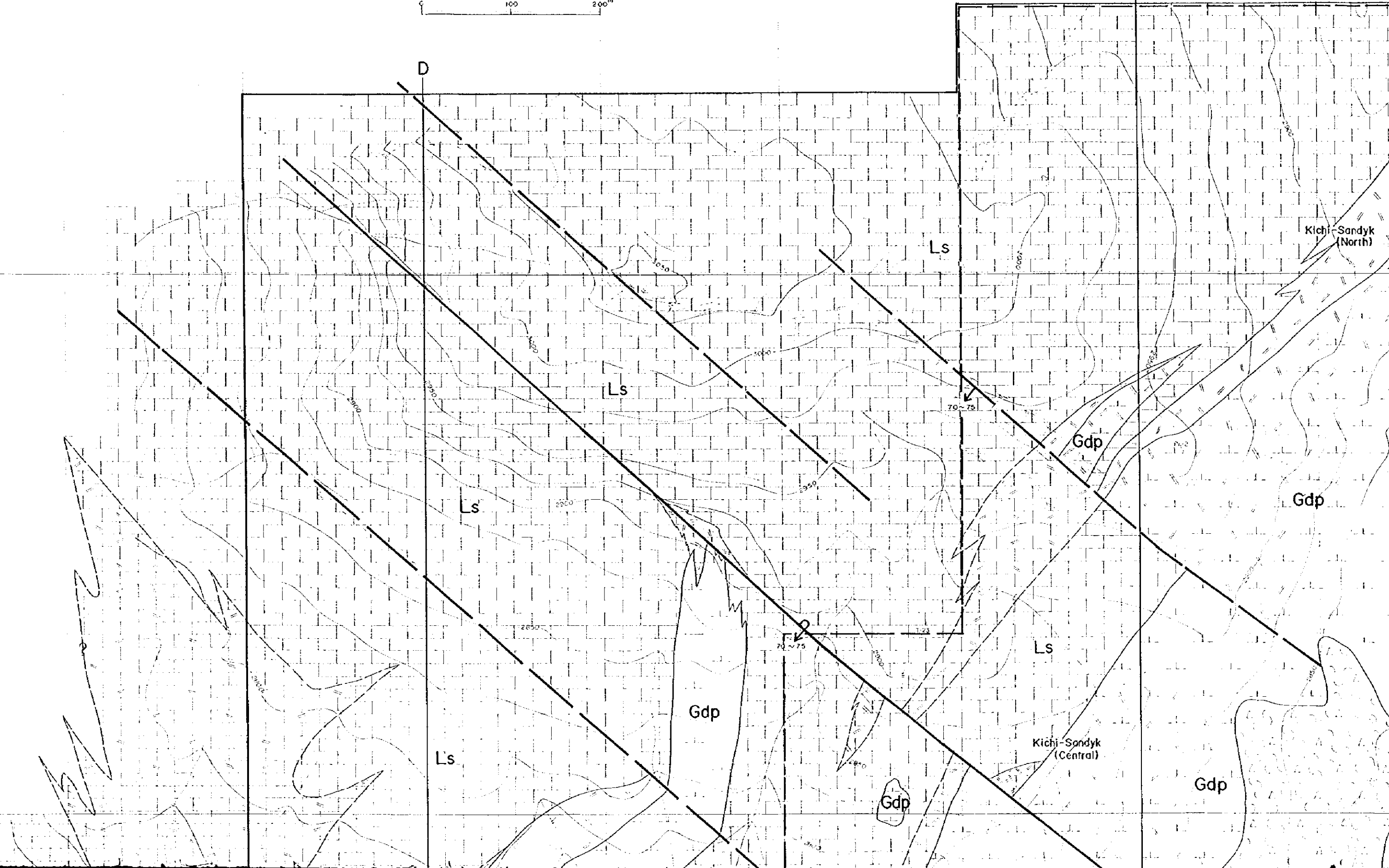
4,600

A

D

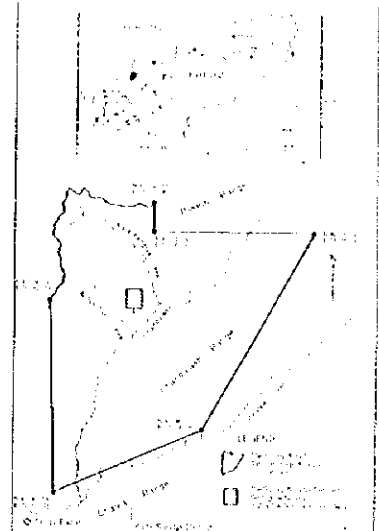
C

B



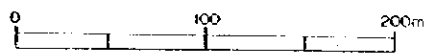
THE MINERAL EXPLORATION
IN
THE KICHI-SANDYK DISTRICT
THE KARGHYZ REPUBLIC
(PHASE D)

Geological Map of the Kichi-Sandyk District
(1:2,000)



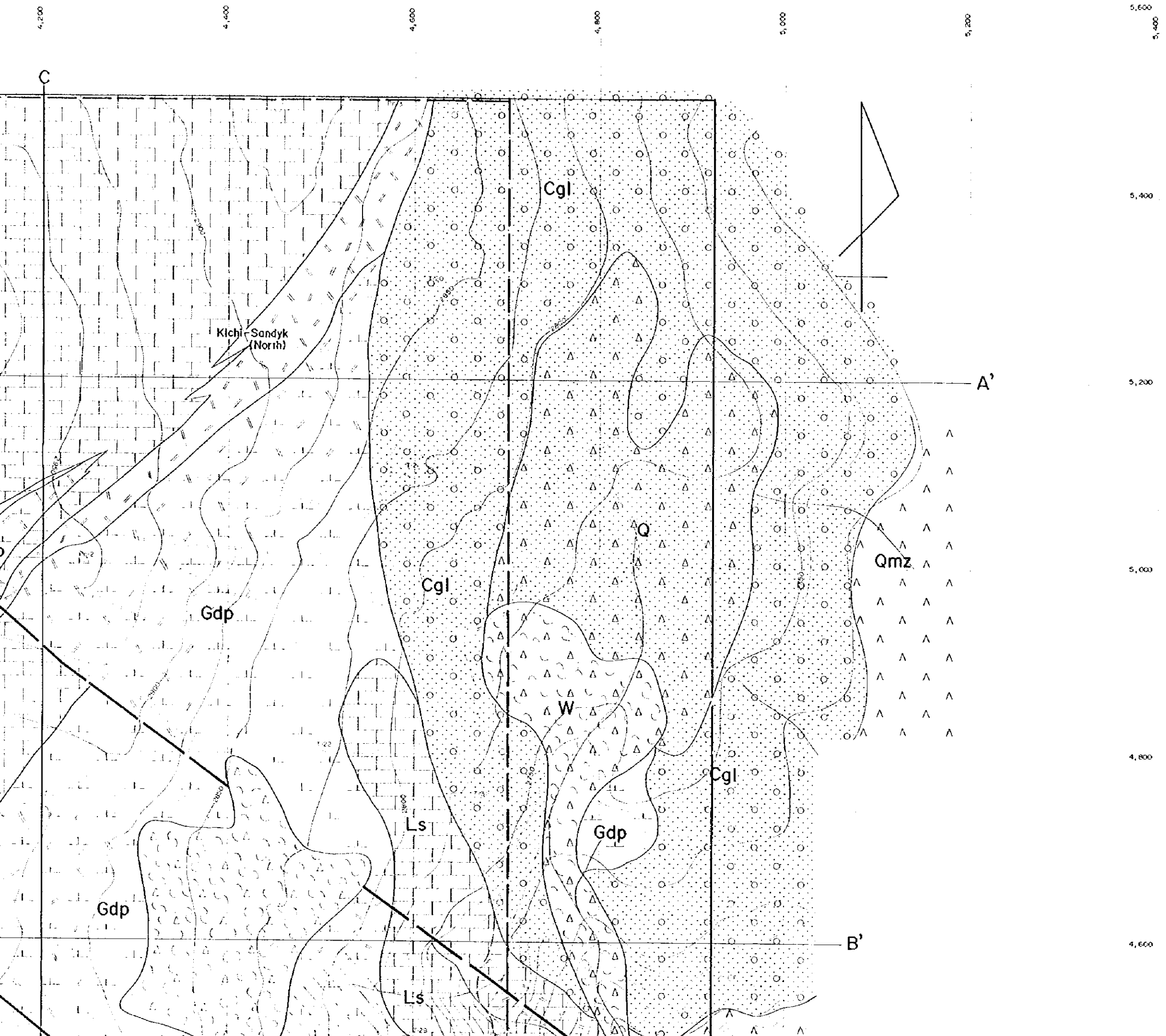
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1998
Prepared by MIRRECO

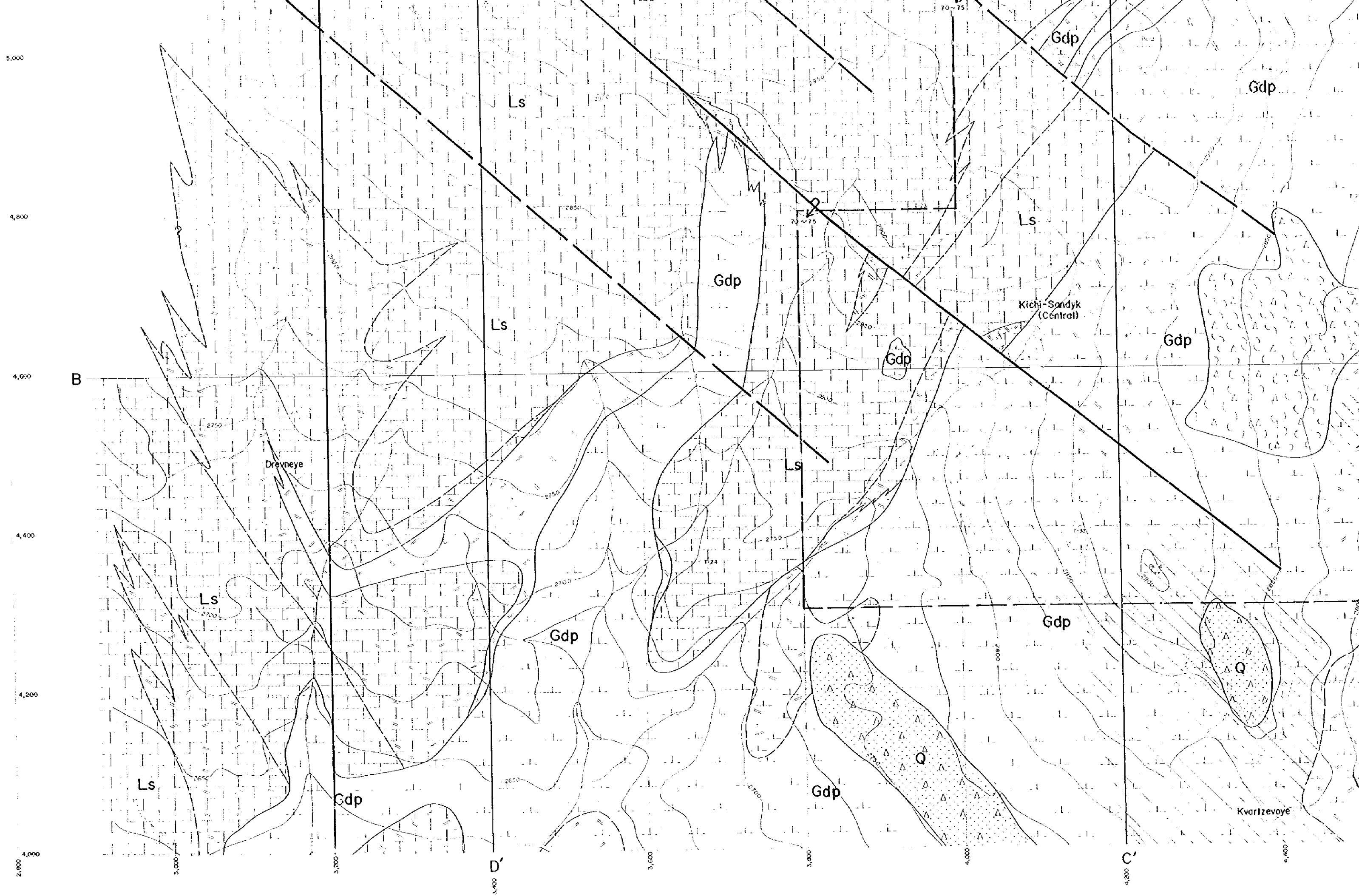
1 : 2,000

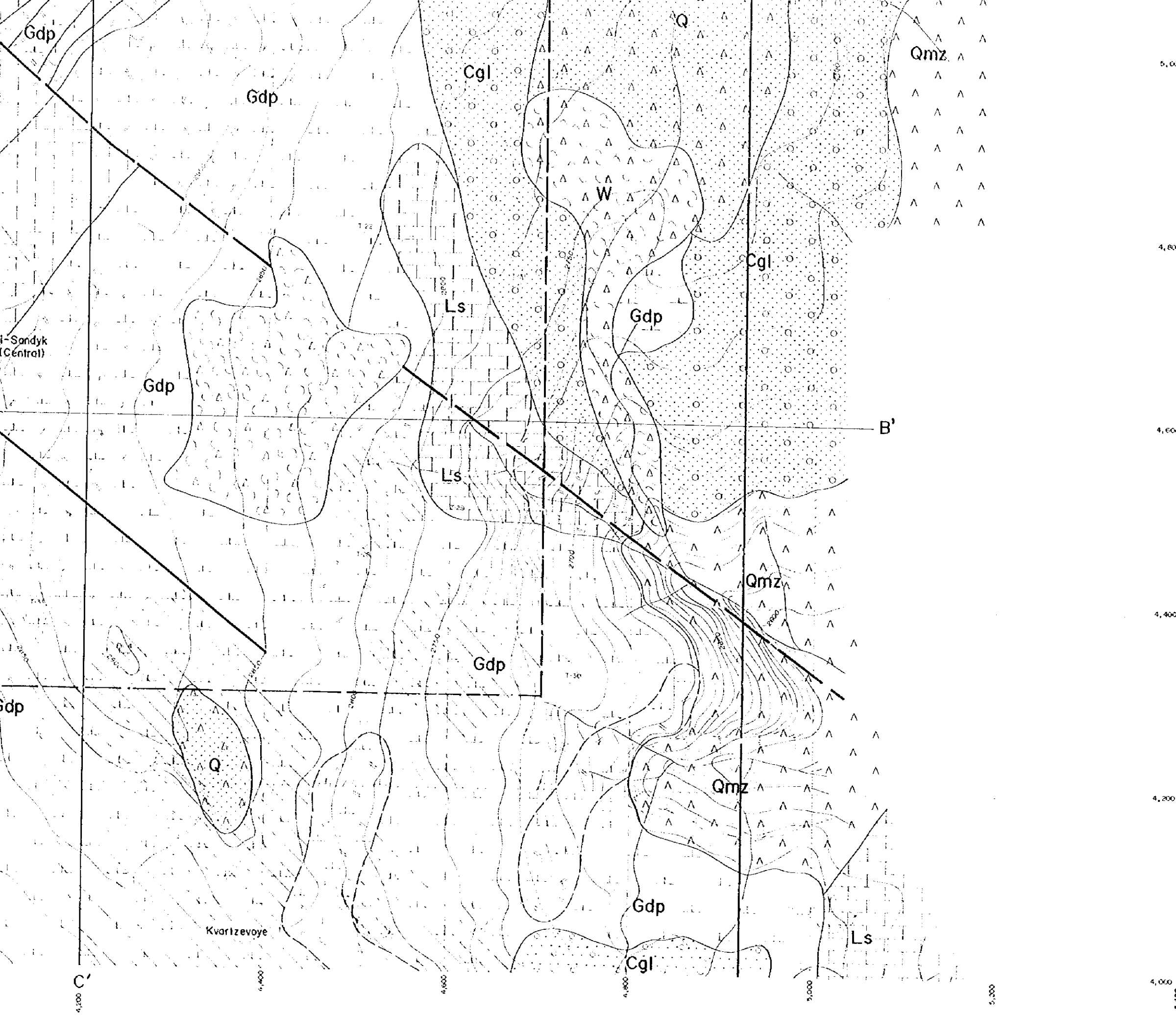


LEGEND

- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marble
- [Intrusive Rocks]
- Permian Gdp granodiorite porphyry (choimansay complex)
- Carboniferous Qmz quartz monzonite (sandalash complex)
- massive skarn (exo skarn)
- skarnized limestone
- granodiorite porphyry
- silicified granodiorite porphyry (endo skarn)
- mineralized zone
- strike and dip of strata
- fault
- inferred fault
- geological survey
- detailed geological

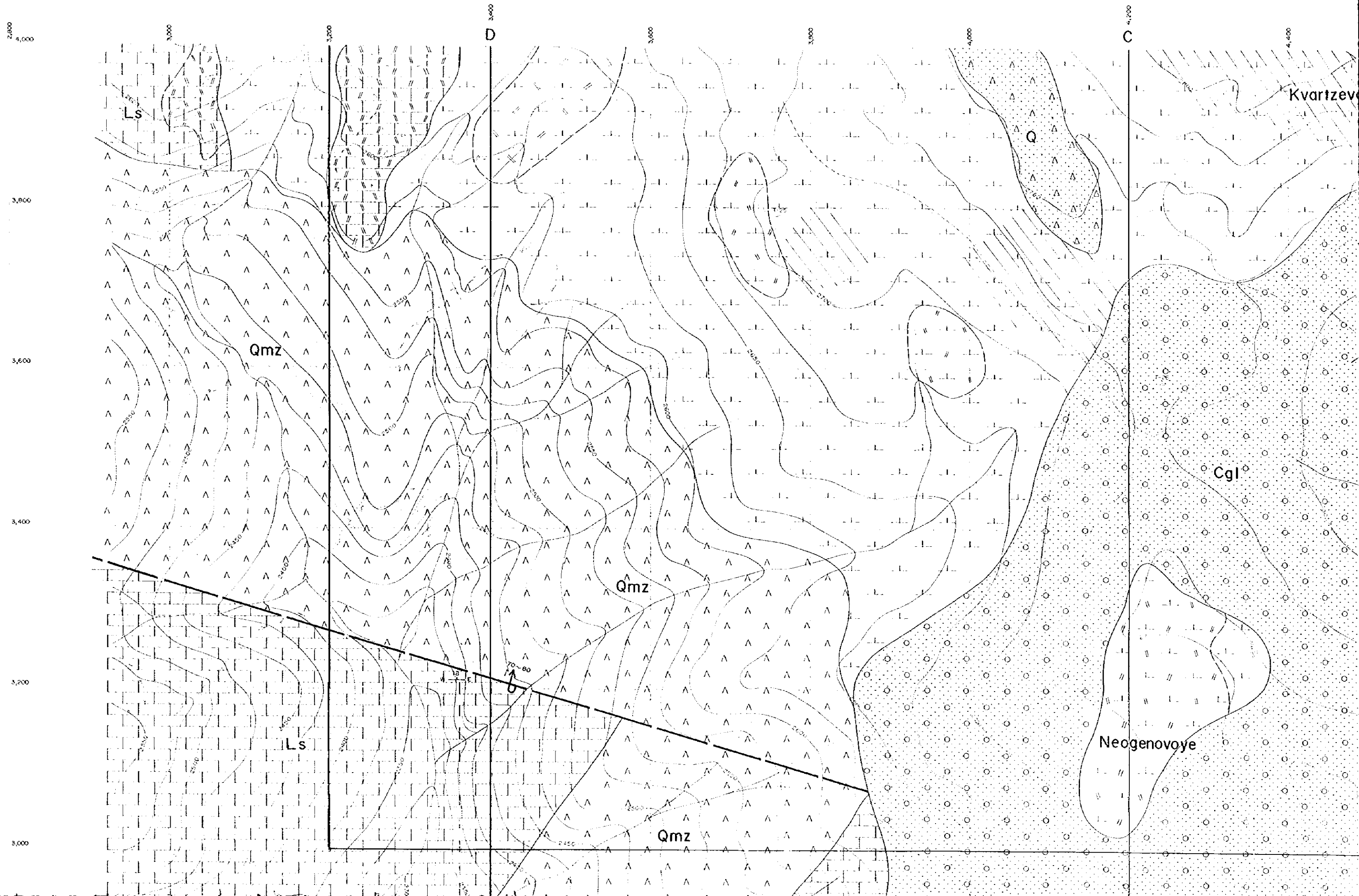


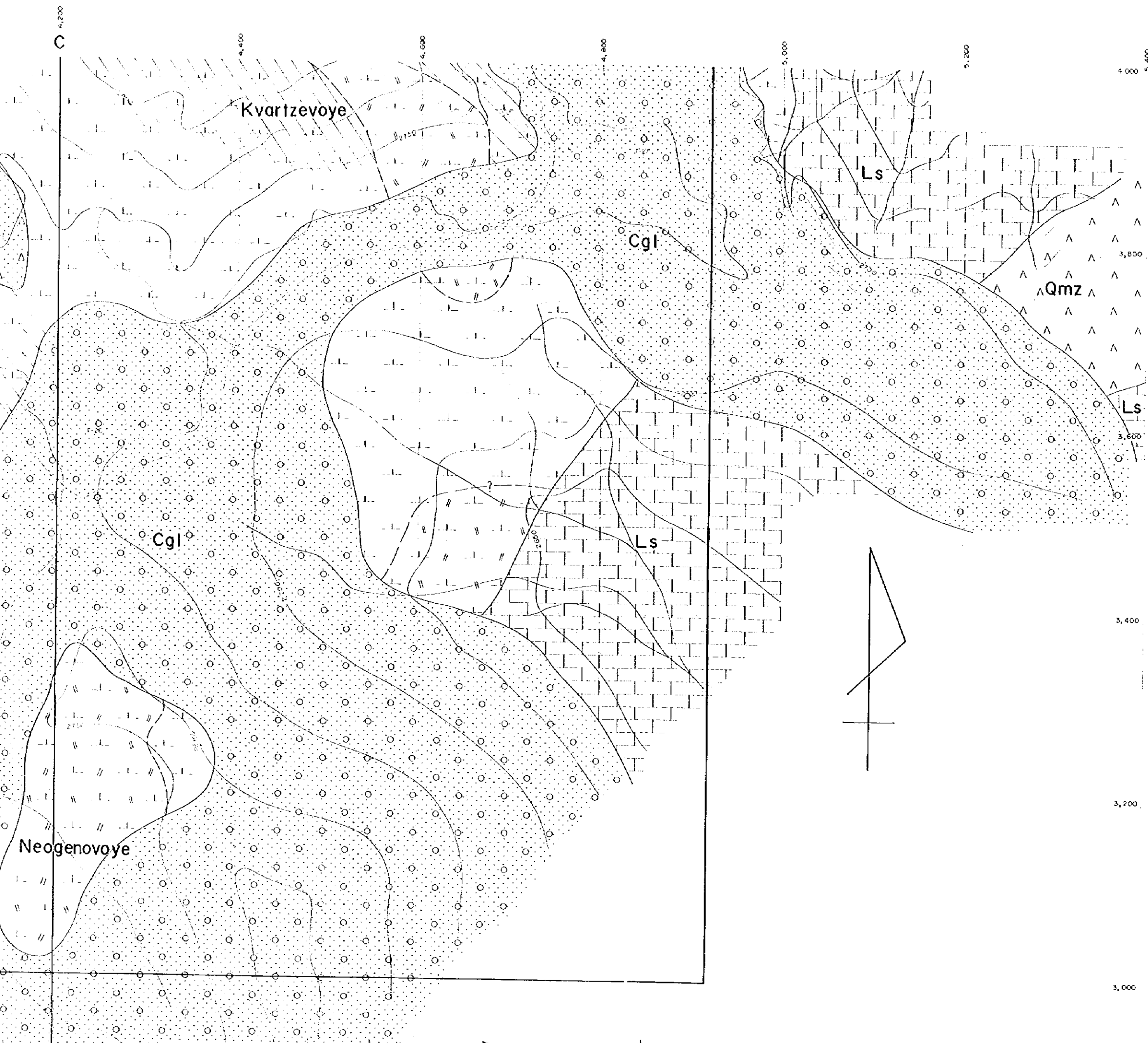




LEGEND

	W	waste, ancient extractions
	Q	Quaternary sand, clay unconsolidated sediments
	C	Tertiary conglomerate
	Ls	Carboniferous limestone, marble
(Intrusive Rocks)		
	Gdp	Permian granodiorite porphyry (chalmersay complex)
	Qmz	Carboniferous quartz monzonite (sandokash complex)
		massive skarn (exo skarn)
		granodiorite porphyry
		skarnized limestone
		silicified granodiorite porphyry (endo skarn)
		mineralized zone
		fault
		strike and dip of strata
		inferred fault
		geological survey area (1:2,000)
		detailed geological survey area (1:1,000)

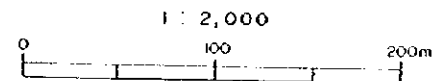




PL. JI-3-1 (2)

**THE MINERAL EXPLORATION
 IN
 THE KICH-SANDYK DISTRICT
 THE KYRGHYZ REPUBLIC
 (PHASE D)**
 Geological Map of the Kich-Sandyk District
 (1:2,000)

JAPAN INTERNATIONAL COOPERATION AGENCY
 METAL MINING AGENCY OF JAPAN
 FEBRUARY 1988
 Prepared by IMMECO



- LEGEND**
- W waste, ancient extractions
 - Quaternary
Q sand, clay unconsolidated sediments
 - Tertiary
C conglomerate
 - Carboniferous
Ls limestone, marble
 - [Intrusive Rocks]

Permian
Gdp granodiorite porphyry (Chalmersky complex)
 - Carboniferous
Qmz quartz monzonite (Sandalash complex)
 - massive skarn (exo skarn)
 - skarned limestone
 - granodiorite porphyry
 - skarned limestone (endo skarn)
 - mineralized zone
 - strike and dip of strata
 - fault
 - inferred fault

3,400
3,200
3,000
2,800
2,600

2,800
2,400

3,000

3,200

3,400

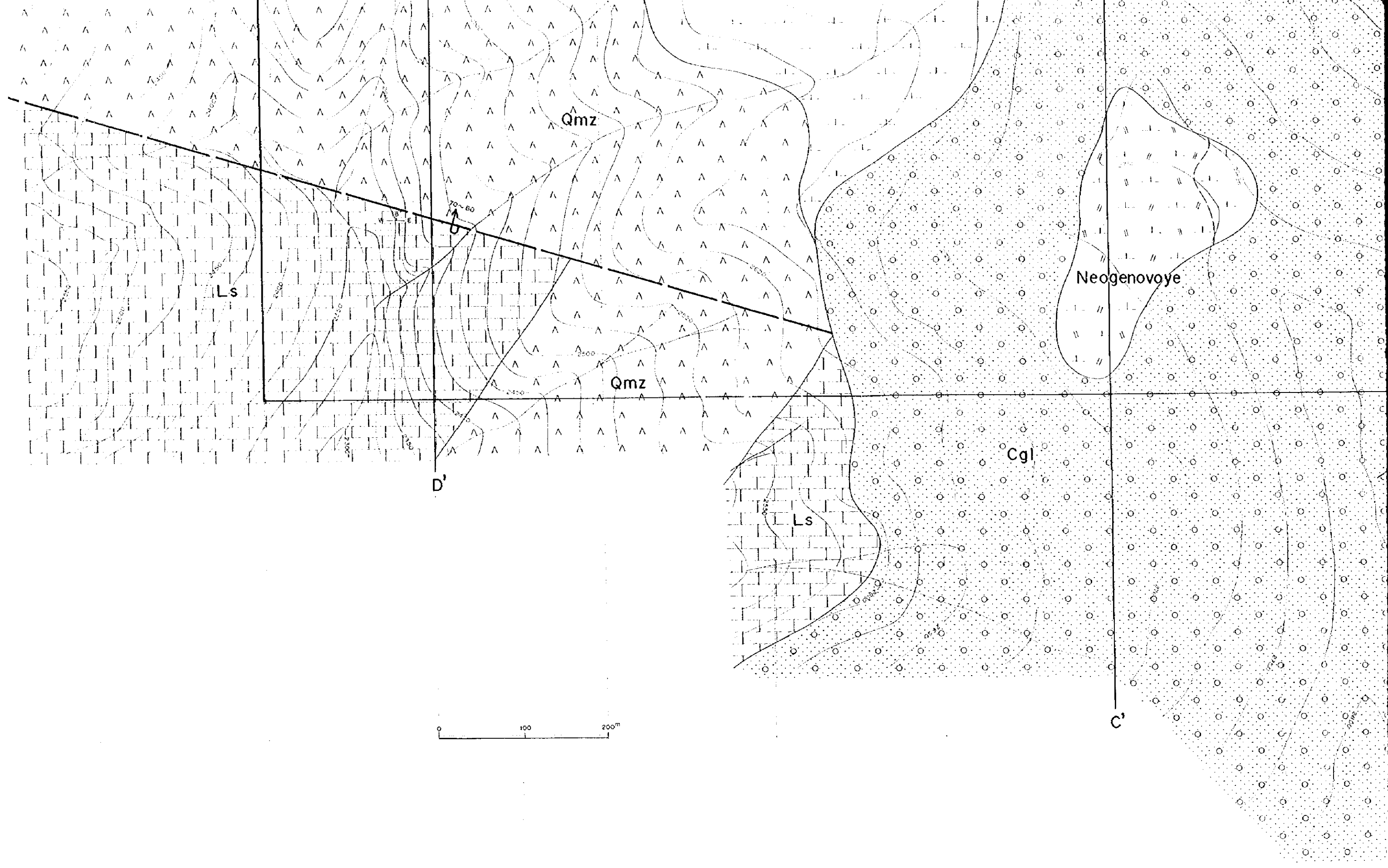
3,600

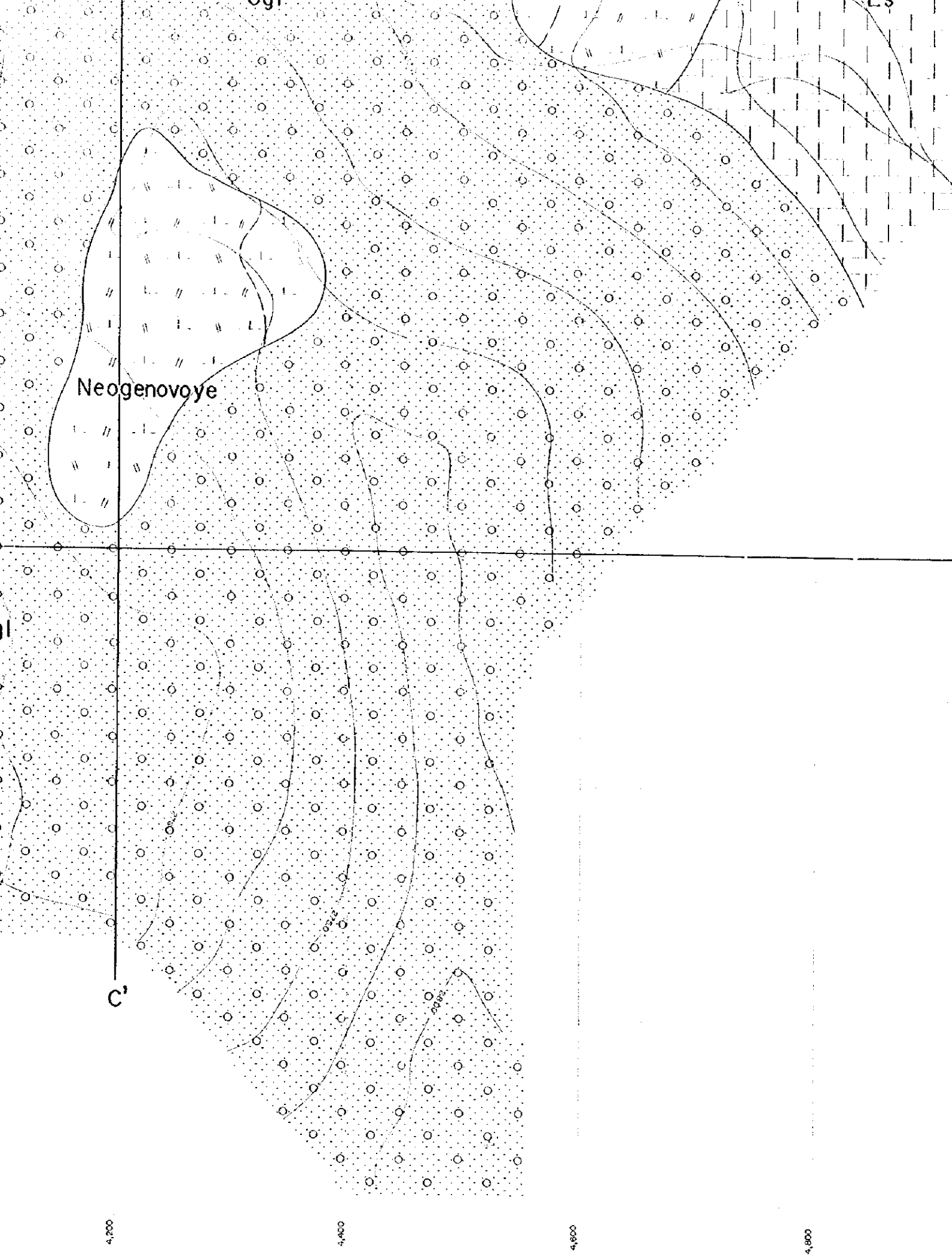
3,800

4,000

4,200

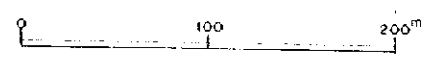
4,400





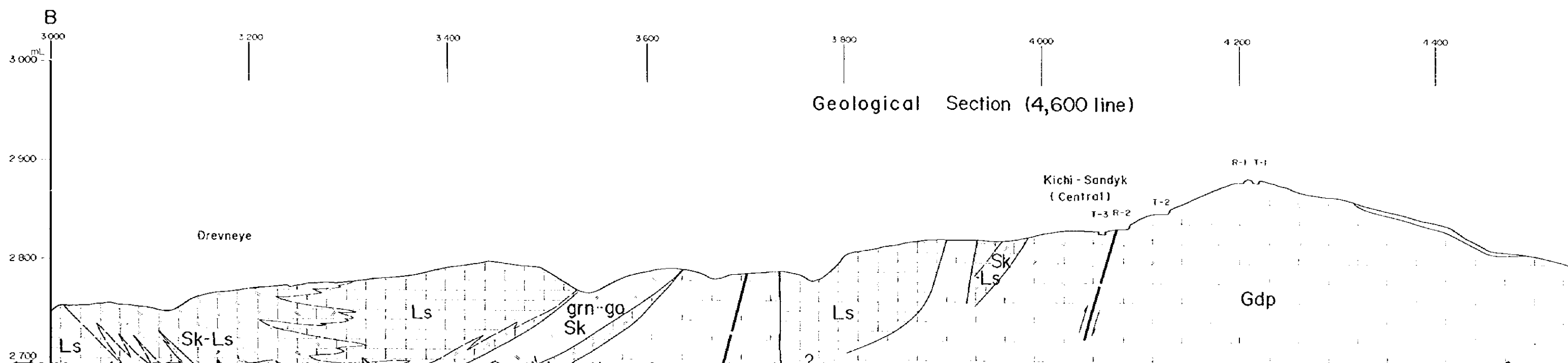
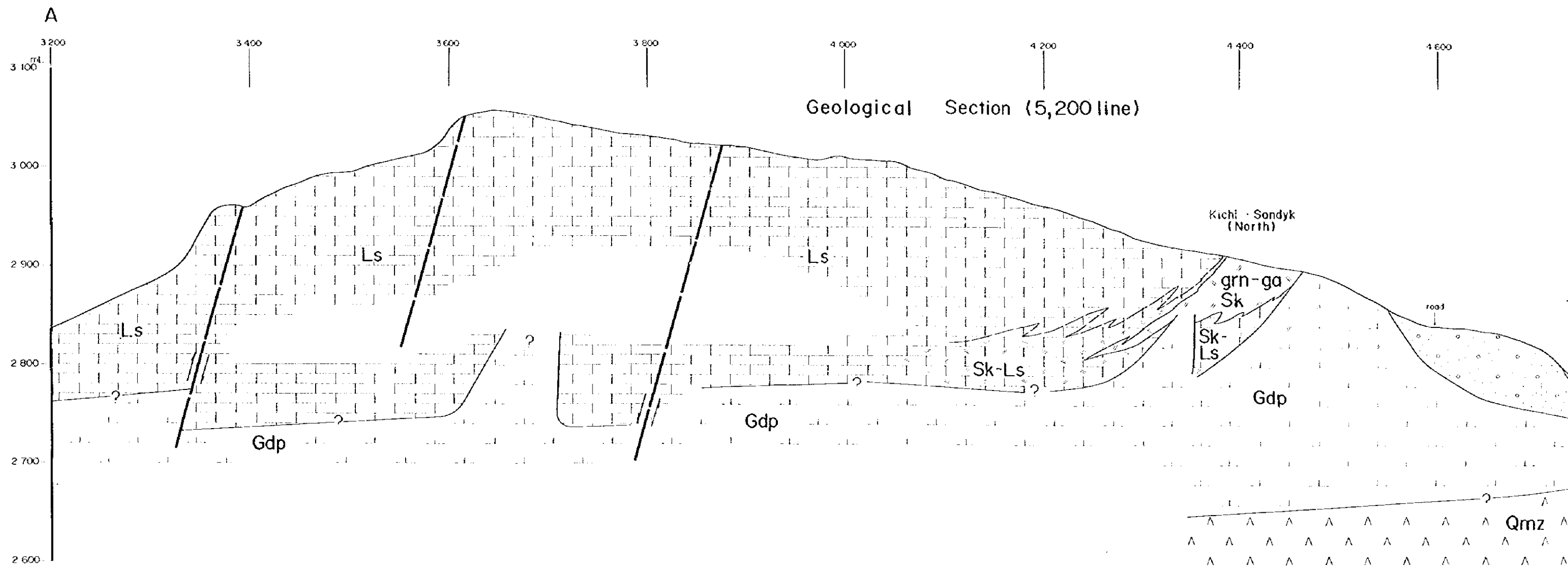
4,200 4,400 4,600 4,800 5,000 5,200 5,400

3,400 3,200 3,000 2,800 2,600 2,400

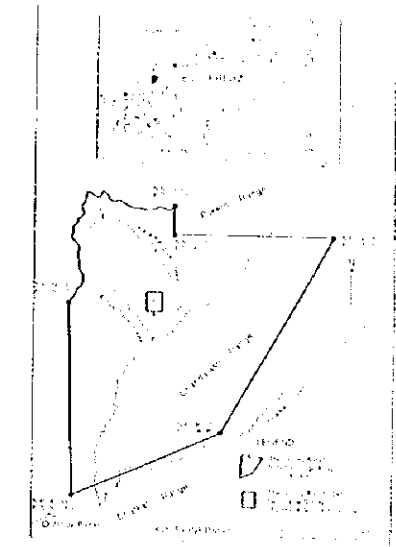


LEGEND

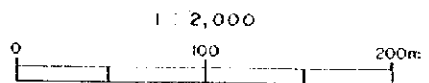
- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marl
- (Intrusive Rocks)
- Permian Gdp granodiorite porphyry (chalmersay complex)
- Carboniferous Qmz quartz monzonite (sordalush complex)
- massive skarn (exo skarn)
- skarnized limestone
- granodiorite porphyry
- silicified granodiorite porphyry (endo skarn)
- mineralized zone
- fault
- strike and dip of strata
- inferred fault
- geological survey area (1:2,000)
- detailed geological survey area (1:1,000)



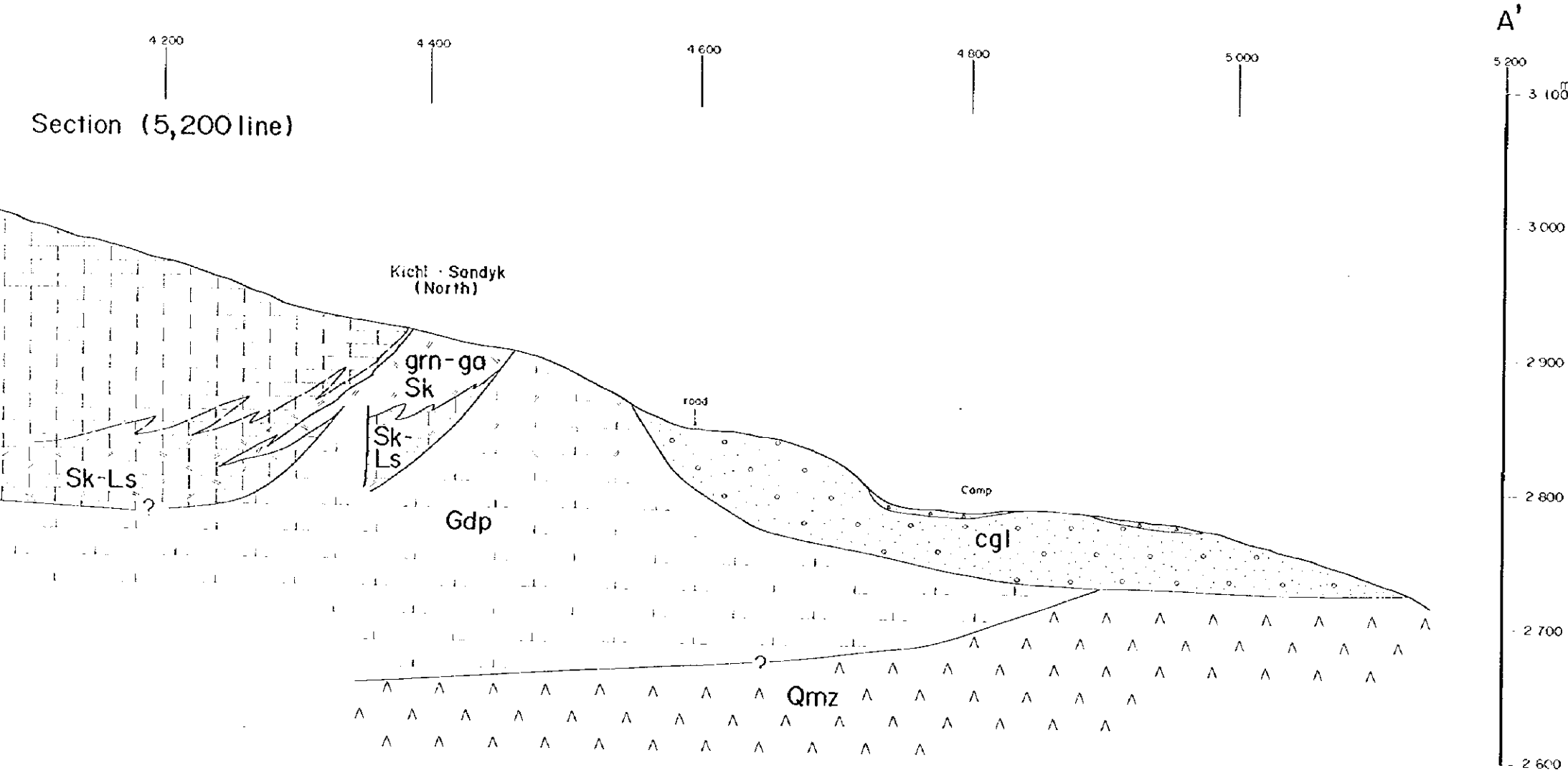
THE MINERAL EXPLORATION
IN
THE KICHI-SANDYK DISTRICT
THE KYRGYZ REPUBLIC
(PHASE I)
Geological Cross Section (A-A', B-B') of the
Kich-Sandyk District (1:2,000)



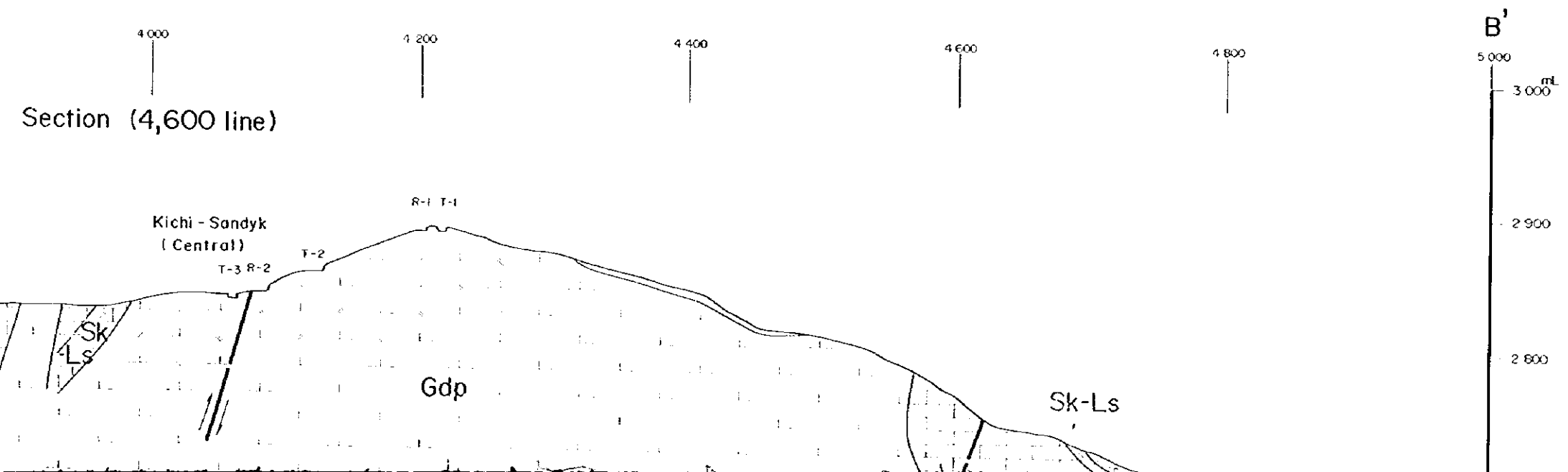
JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1998
Prepared by MIRECO



Section (5,200 line)

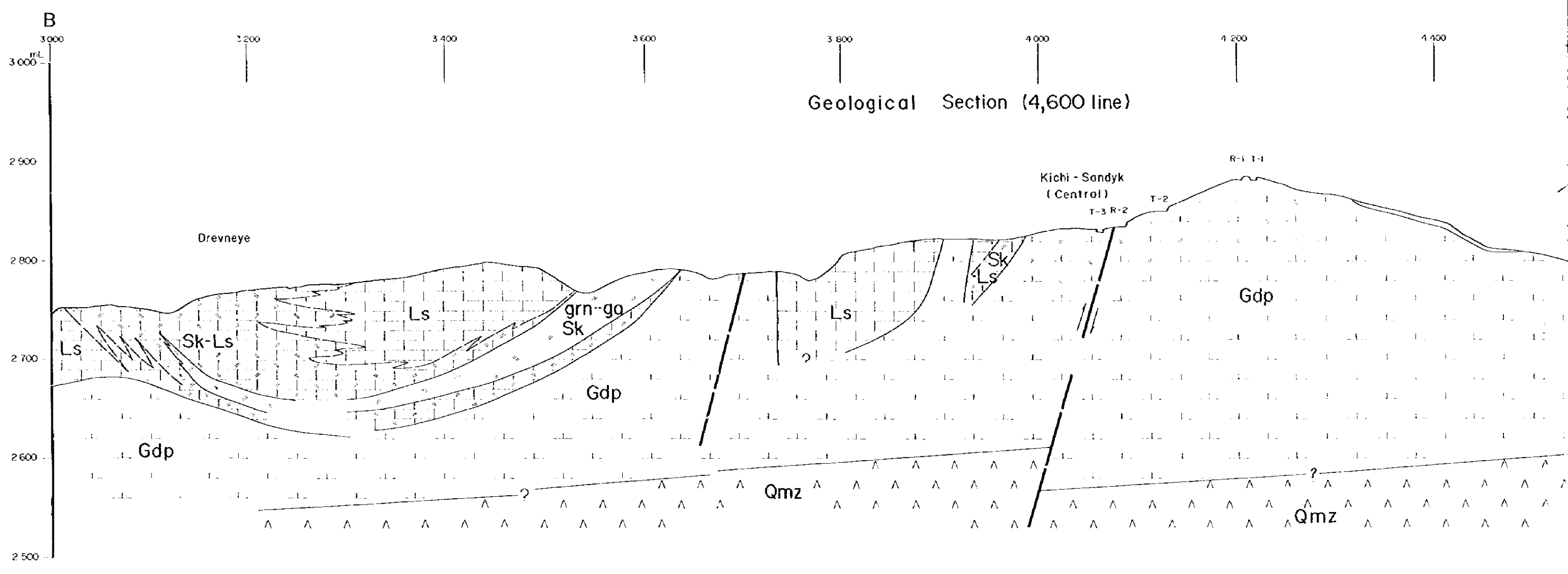
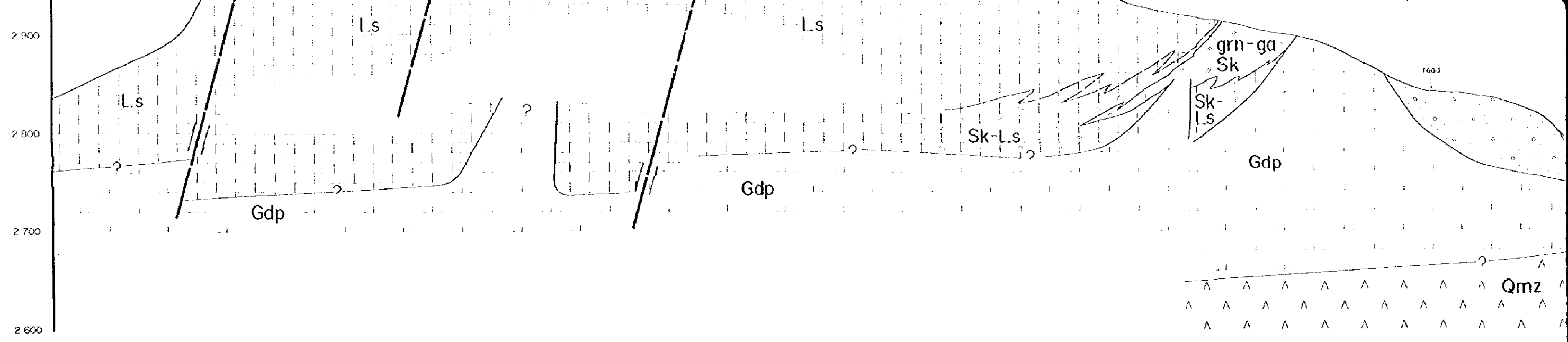


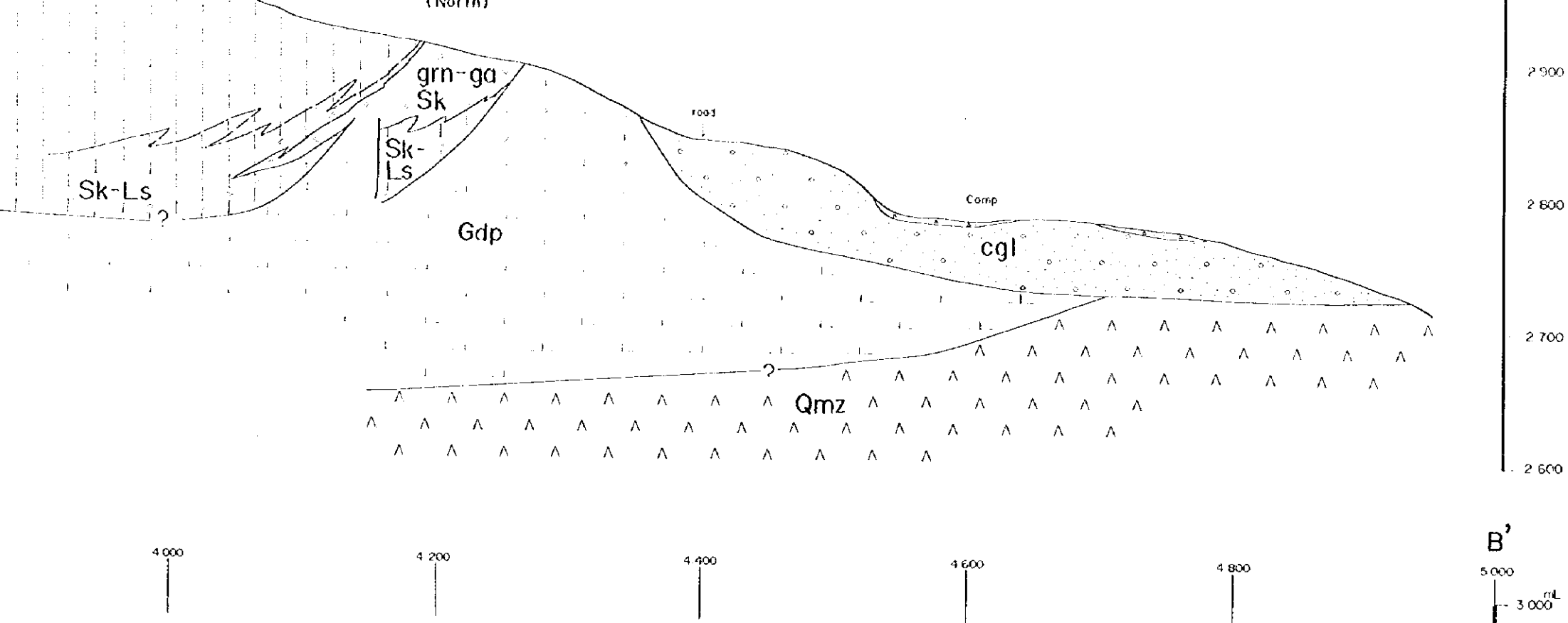
Section (4,600 line)



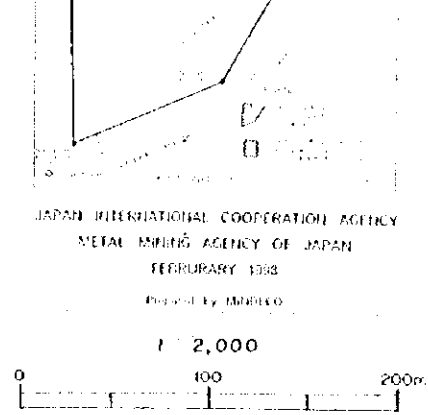
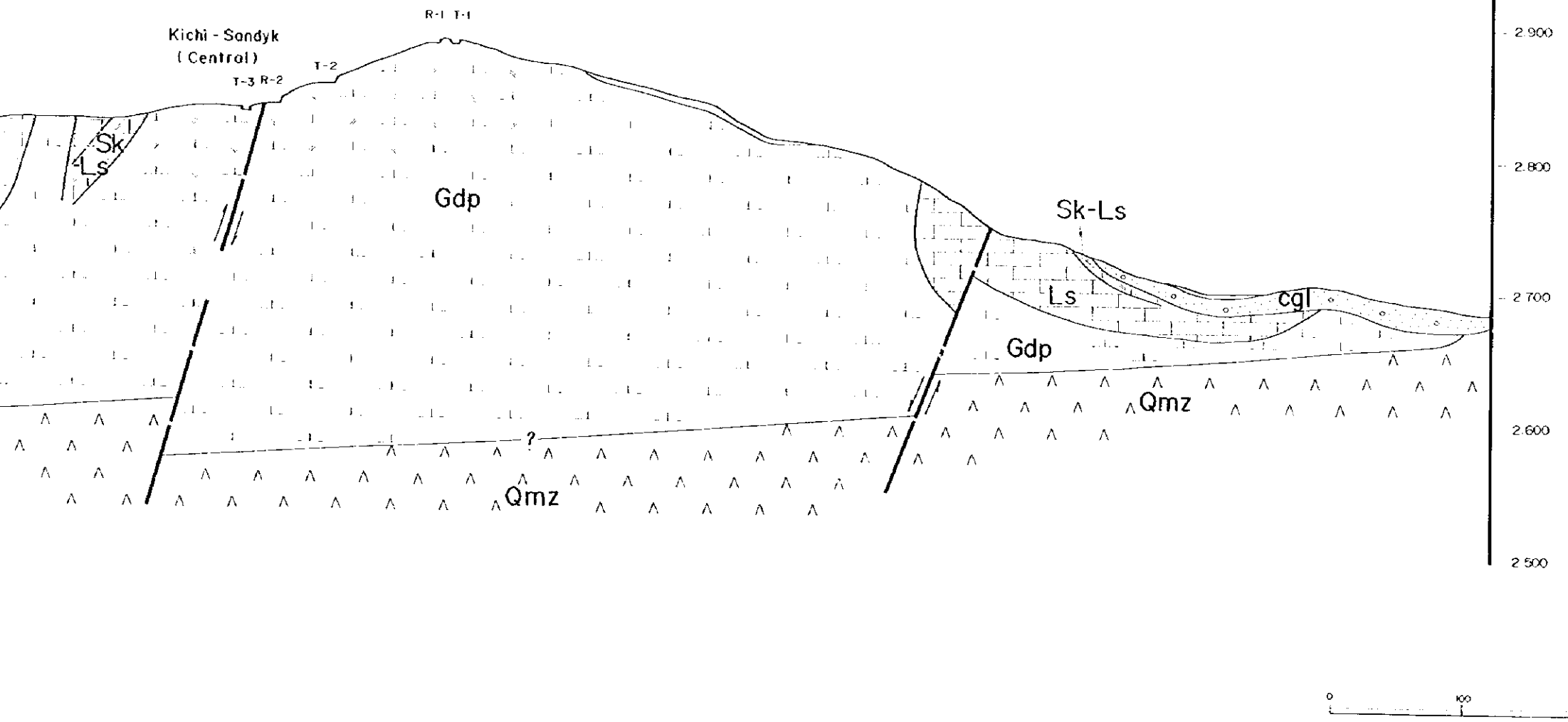
LEGEND

- W waste, ore, extraction
- Quaternary Q sand, clay, unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marl
- [Intrusive Rocks]
- Permian Gdp granodiorite porphyry (aldamaysay complex)
- Carboniferous Qmz quartz monzonite (sandolash complex)
- massive skarn (exo skarn)
- skarnized limestone
- granodiorite porphyry
- skarnized granodiorite porphyry (endo skarn)
- fault
- inferred fault

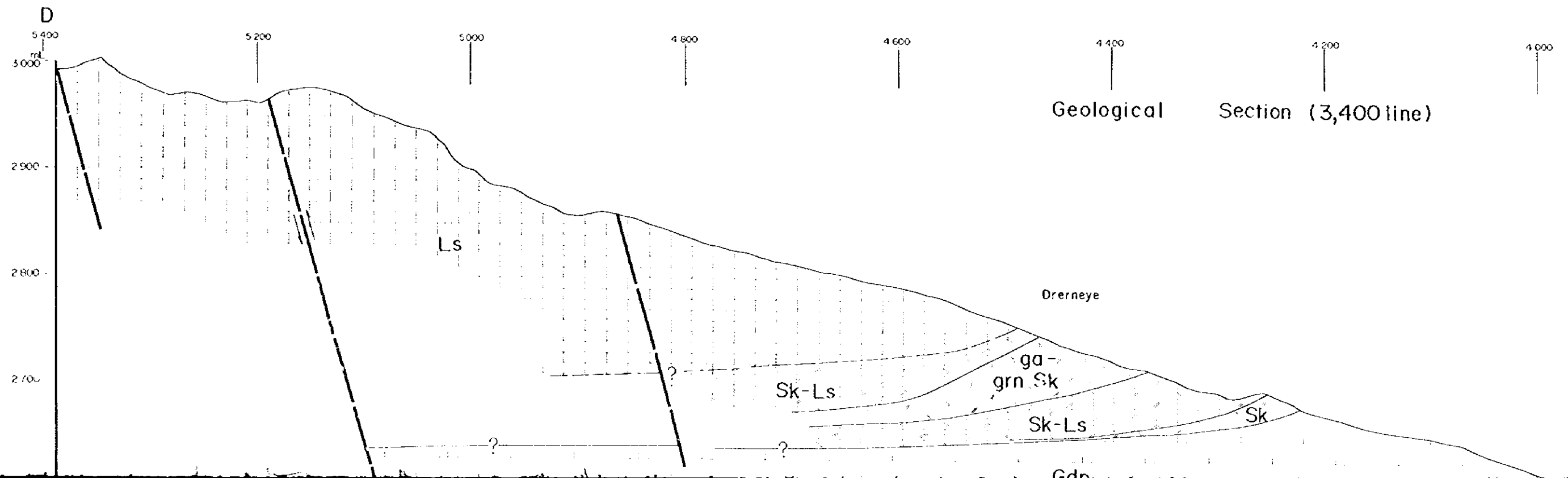
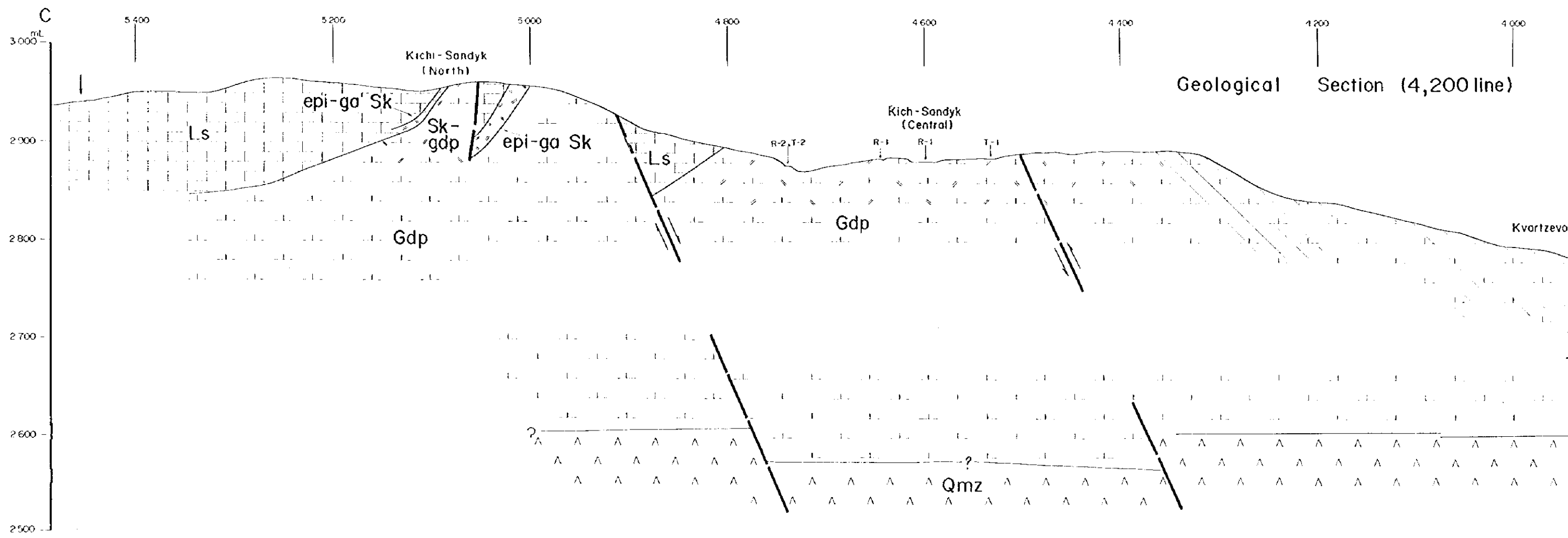


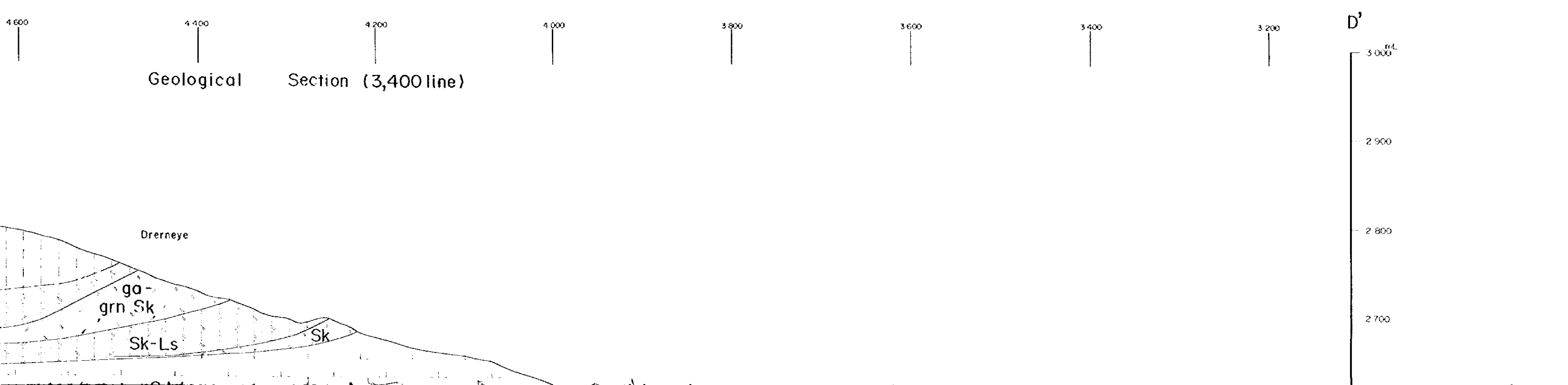
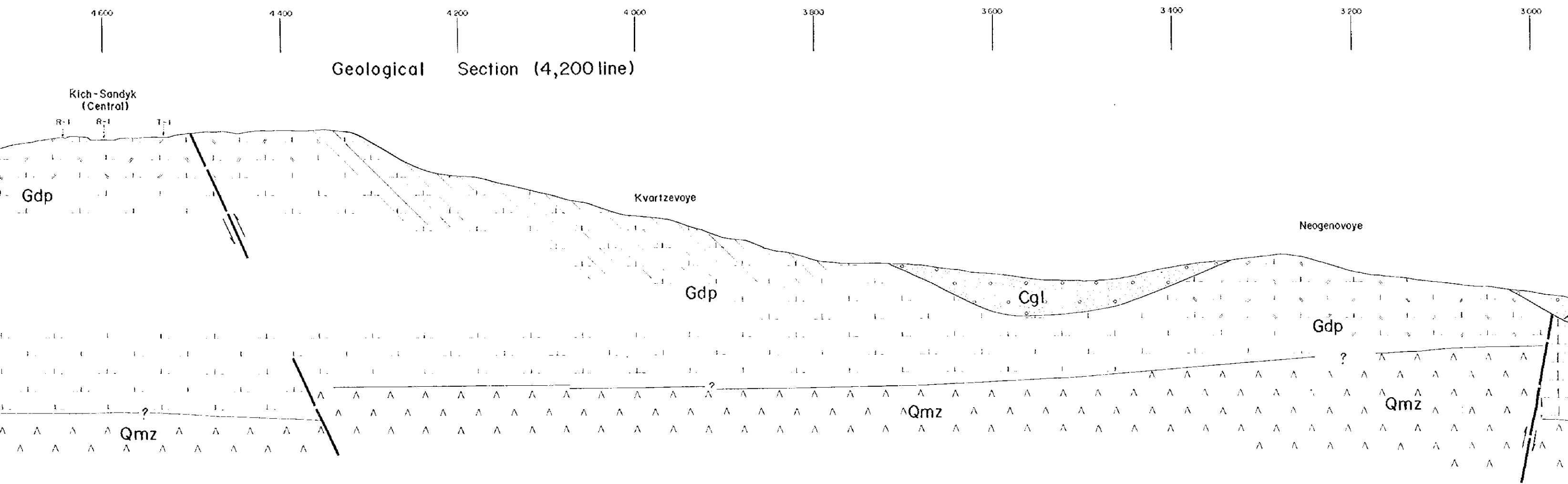


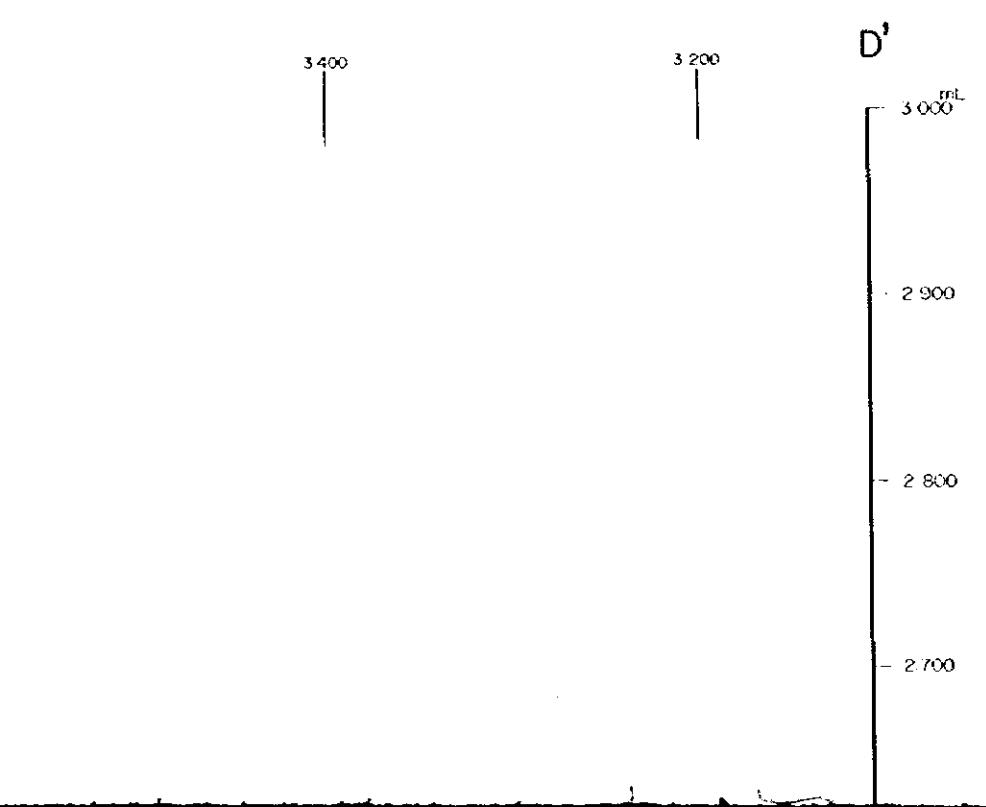
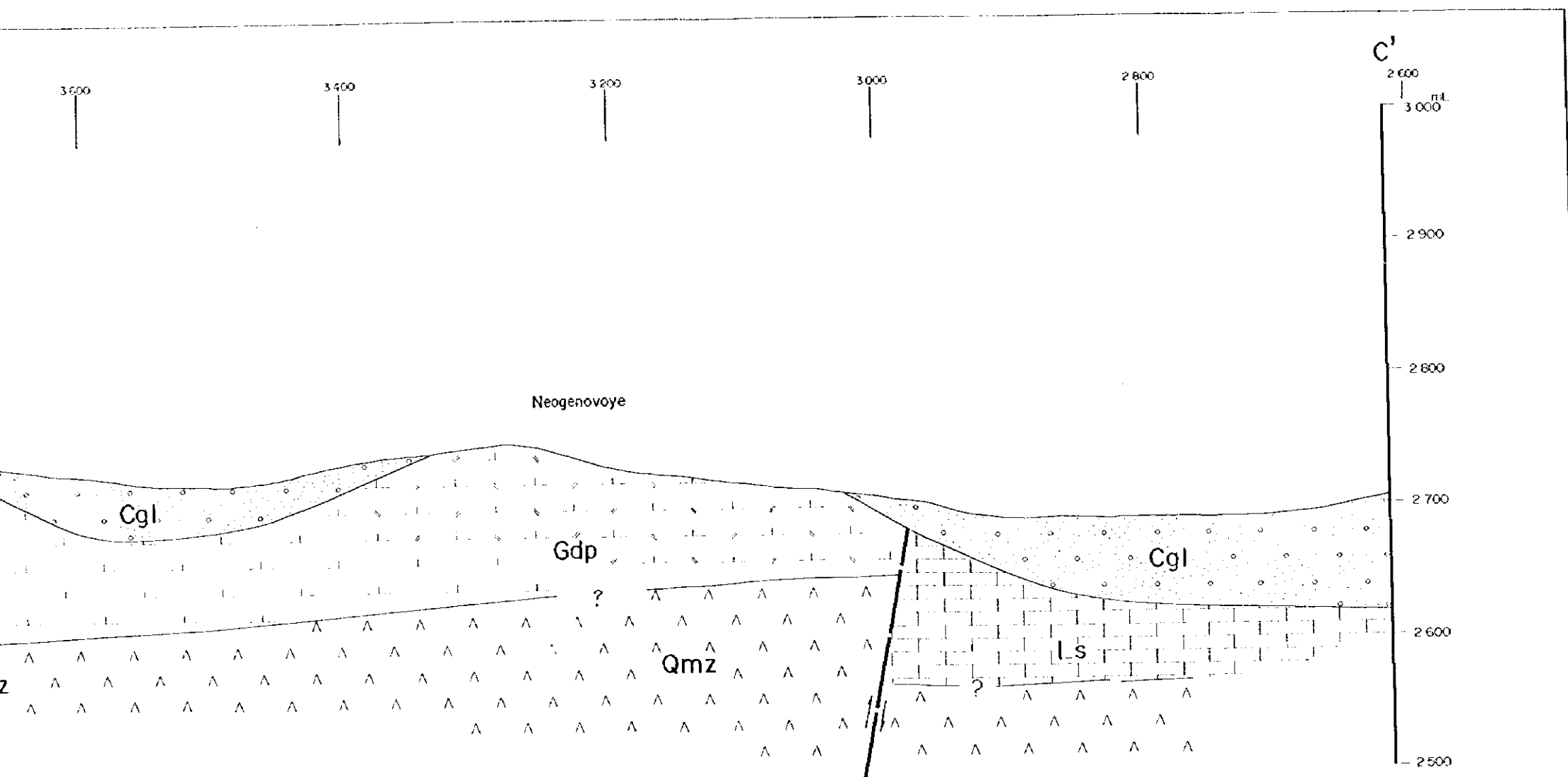
Section (4,600 line)



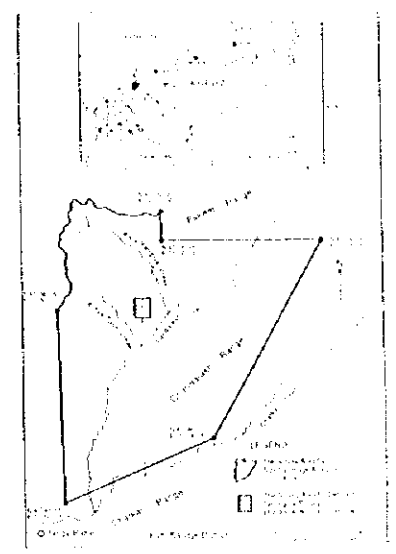
- LEGEND
- W waste, ancient extractions
 - Q Quaternary sand, clay unconsolidated sediments
 - T Tertiary conglomerate
 - C Carboniferous limestone, marble
 - [Intrusive Rocks]**
 - Permian Gdp granodiorite porphyry (Chalmersay complex)
 - Carboniferous Qmz quartz monzonite (Sandolash complex)
 - massive skarn (exo skarn)
 - skarnized limestone
 - granodiorite porphyry
 - silicified granodiorite porphyry (endo skarn)
 - fault
 - inferred fault



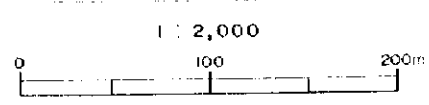




THE MINERAL EXPLORATION
IN
THE KICH-SANDYK DISTRICT
THE KYRGHYZ REPUBLIC
(PHASE D)
Geological Cross Section (C-C', D-D') of the
Kich-Sandyk District (1:2,000)



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METAL MINING AGENCY OF JAPAN
FEBRUARY 1998
Prepared by MURKHO



LEGEND

- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marble
- [Intrusive Rocks]
- Permian Gdp granodiorite porphyry (chalmersay complex)
- Carboniferous Qmz quartz monzonite (sandalash complex)
- massive skarn (exo skarn)
- skarnized limestone
- granodiorite porphyry
- silicified granodiorite porphyry (endo skarn)
- fault
- inferred fault

2700
2600
2500
D
3000
2900
2800
2700
2600
2500
2400
2300

5400

5200

5000

4800

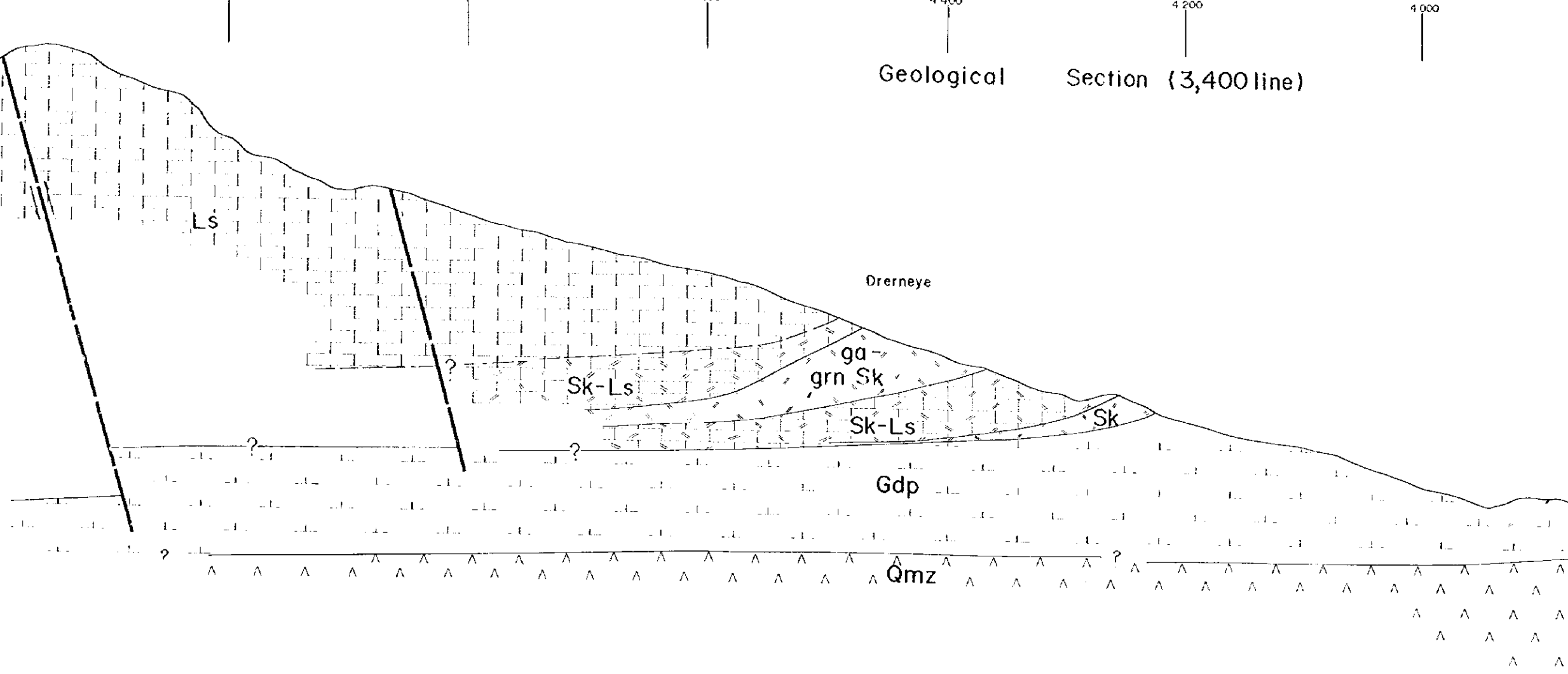
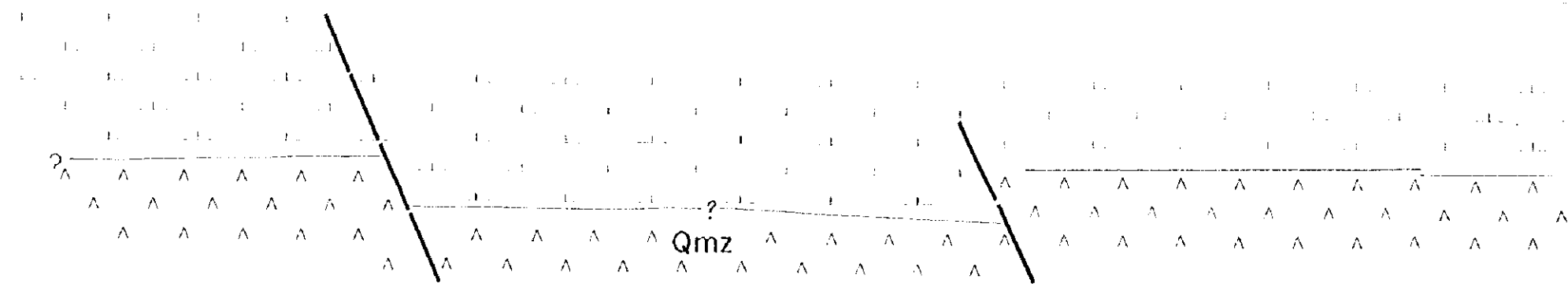
4600

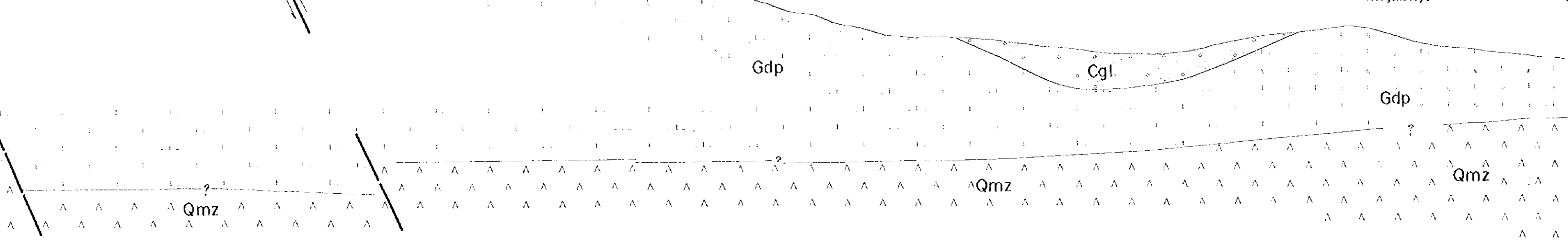
4400

4200

4000

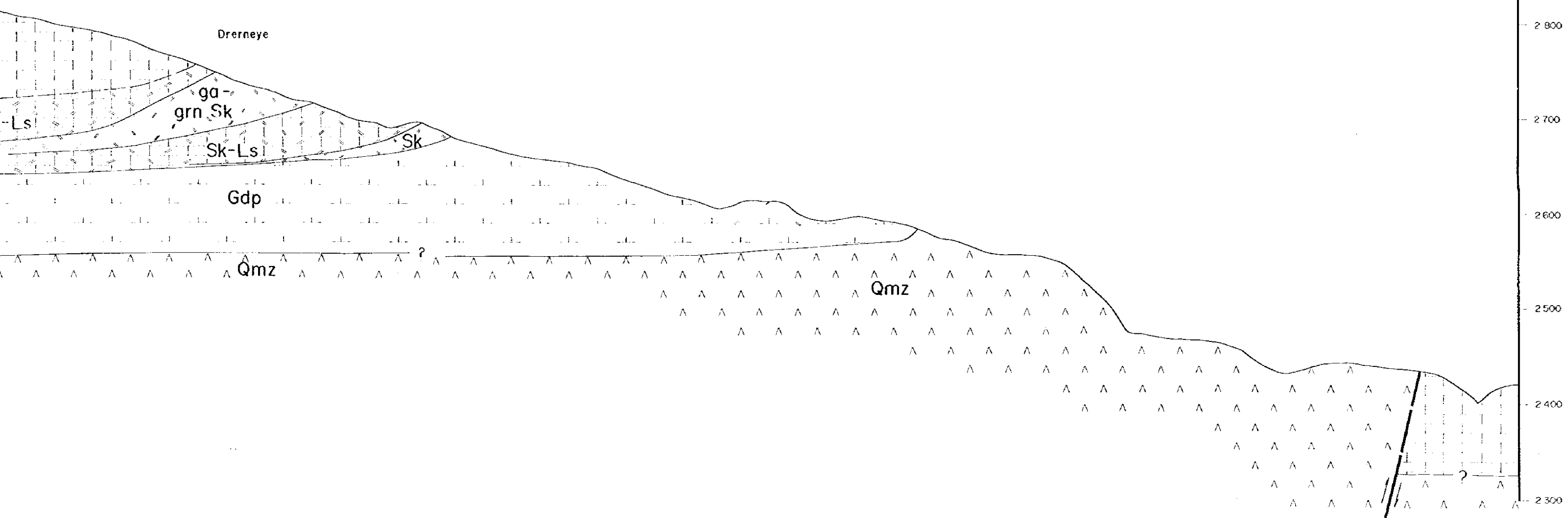
Geological Section (3,400 line)

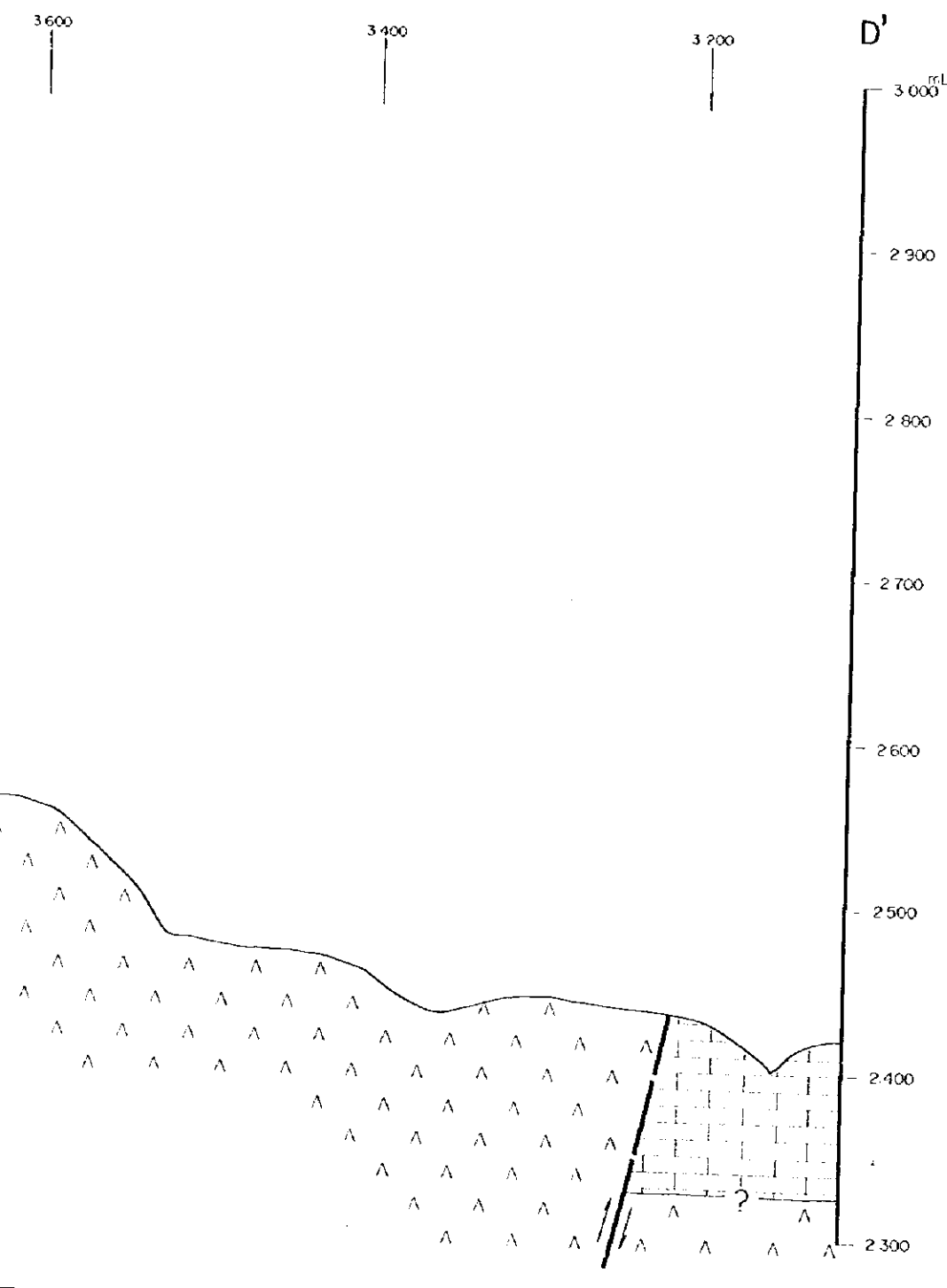
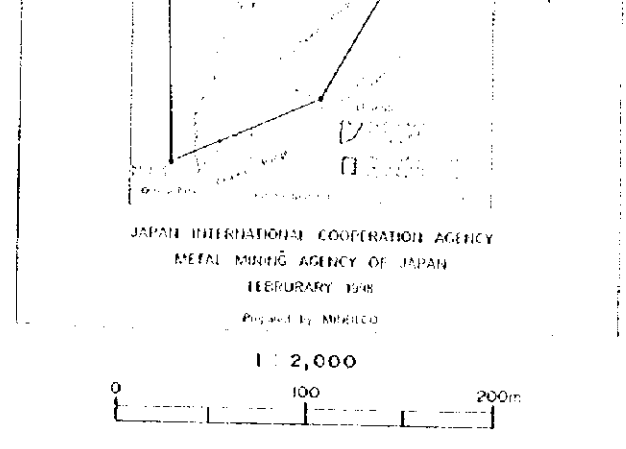
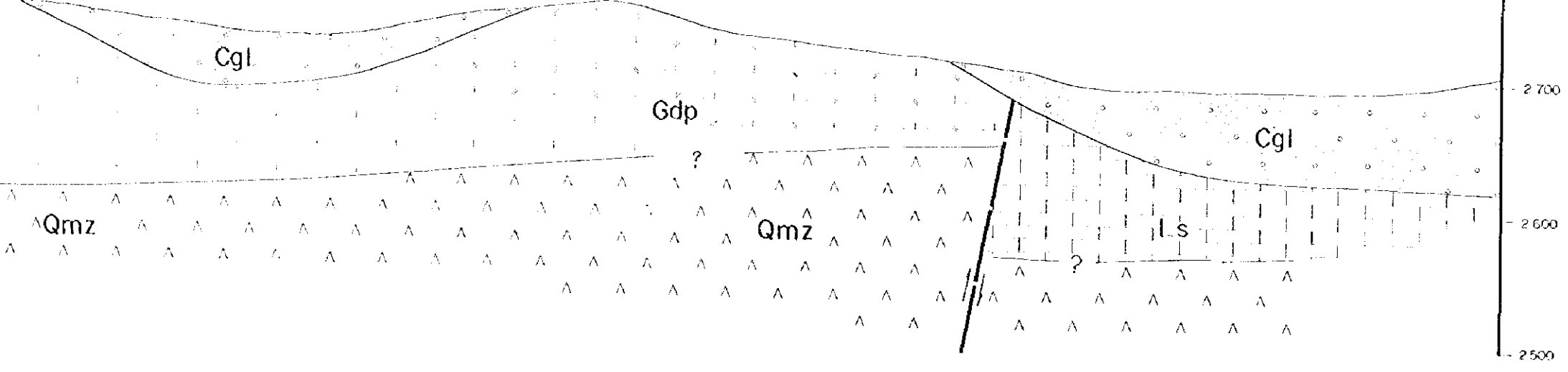




4600 4400 4200 4000 3800 3600 3400 3200 D'

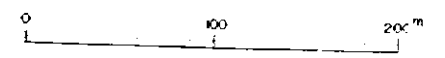
Geological Section (3,400 line)





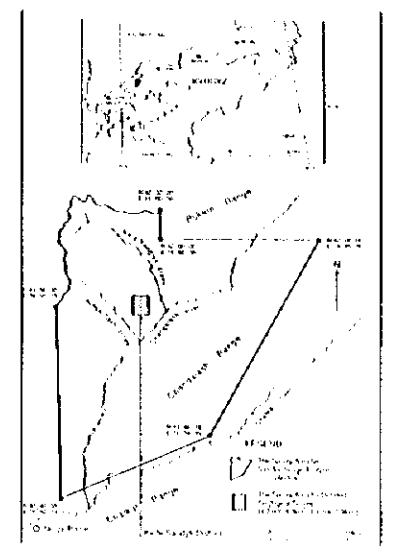
LEGEND

- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marble
- (Intrusive Rocks)
- Permian Gdp granodiorite porphyry (chalmersay complex)
- Carboniferous Qmz quartz monzonite (sandoiash complex)
- massive skarn (exo skarn)
- skarnized limestone
- granodiorite porphyry
- silicified granodiorite porphyry (endo skarn)
- fault
- inferred fault

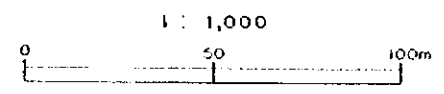




THE MINERAL EXPLORATION
IN
THE KICH SANDYK DISTRICT
THE KYRGYZ REPUBLIC
(PHASE D)
Geological Map of the Kich-Sandyk Deposit
(1:1,000)

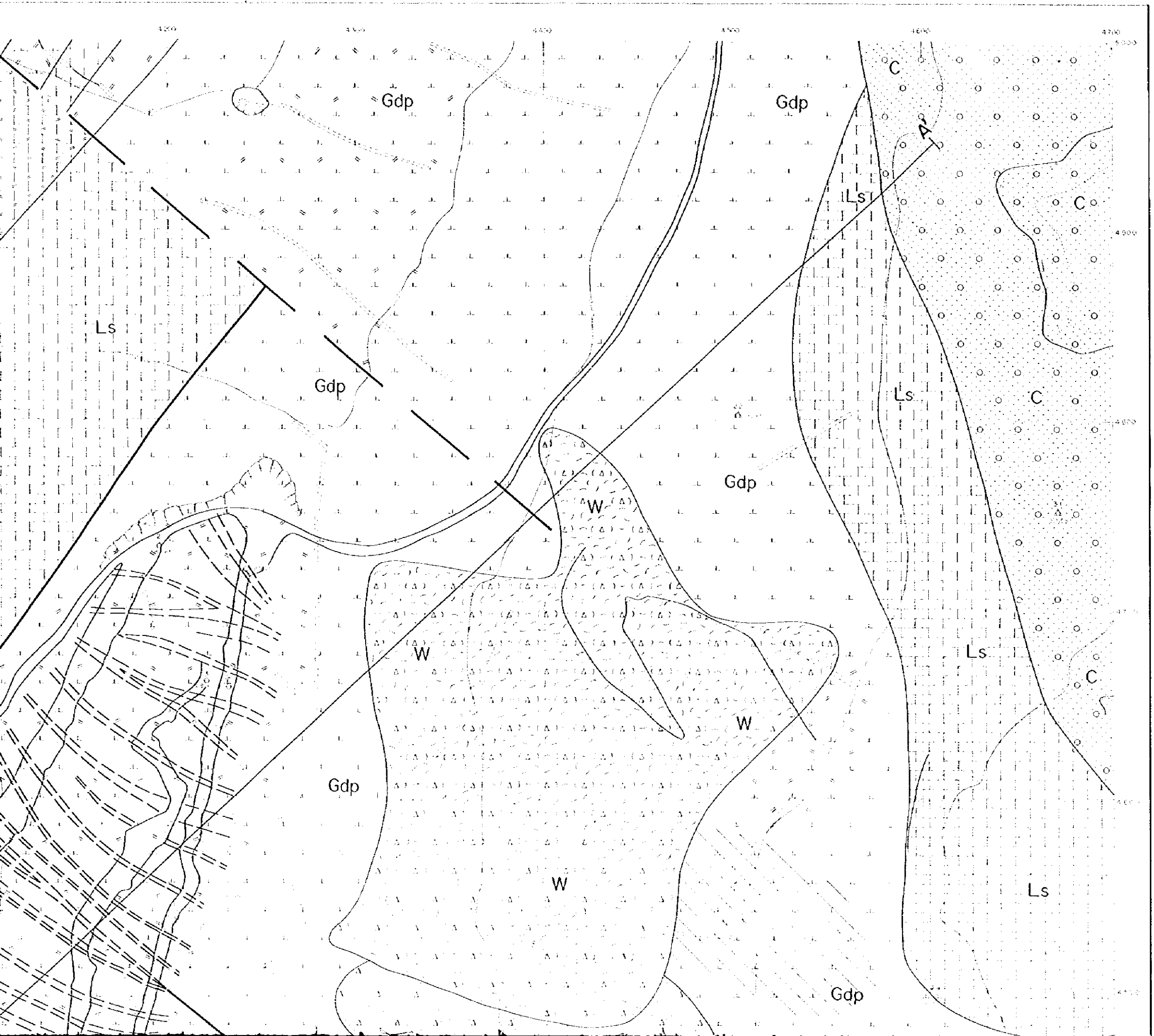


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METAL MINING AGENCY OF JAPAN
FEBRUARY 1988
Prepared by MIMCO

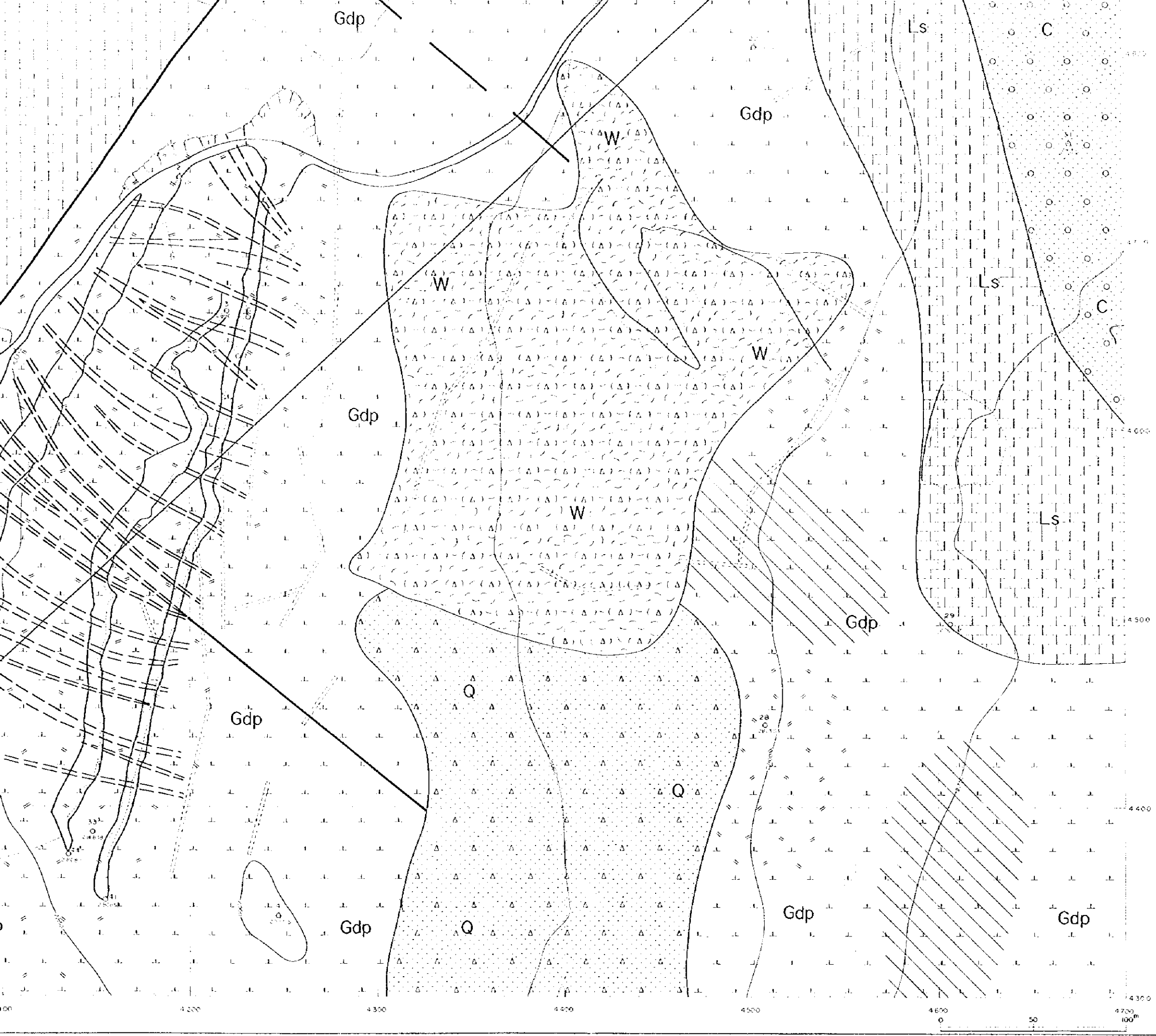
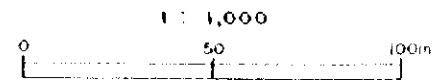


LEGEND

- W waste, ancient extractions
- Quaternary Q sand, clay, unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marble
- (Intrusive Rocks)
- Permian Gdp granodiorite porphyry (terrestrial complex)
- Carboniferous Qmz quartz monzonite (terrestrial complex)
- massive skarn (mass skarn)
- skarnized limestone
- granodiorite porphyry (terrestrial skarn)
- silicified granodiorite porphyry (terrestrial skarn)
- mineralized zone
- strike and dip of strata
- fault
- inferred fault

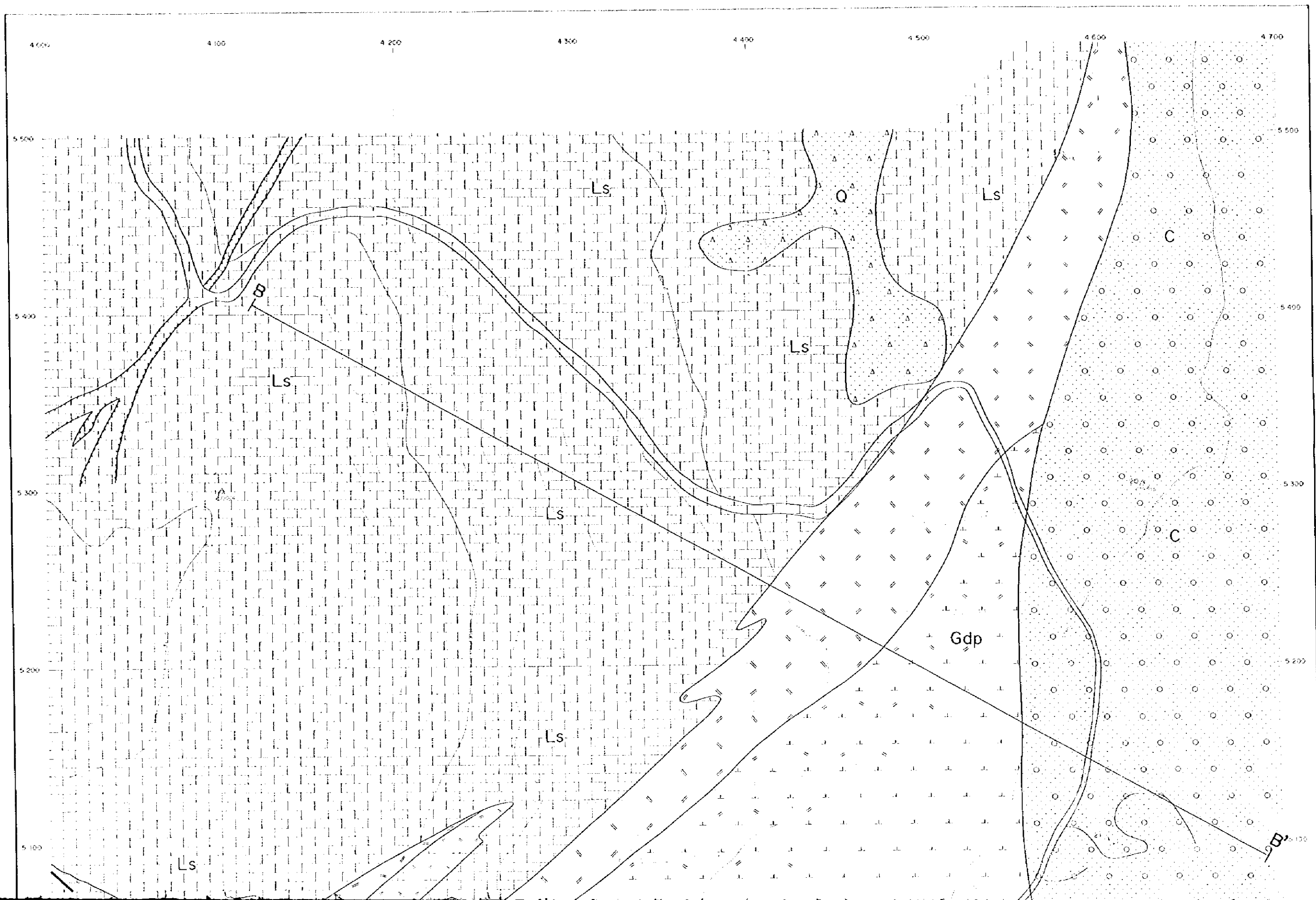




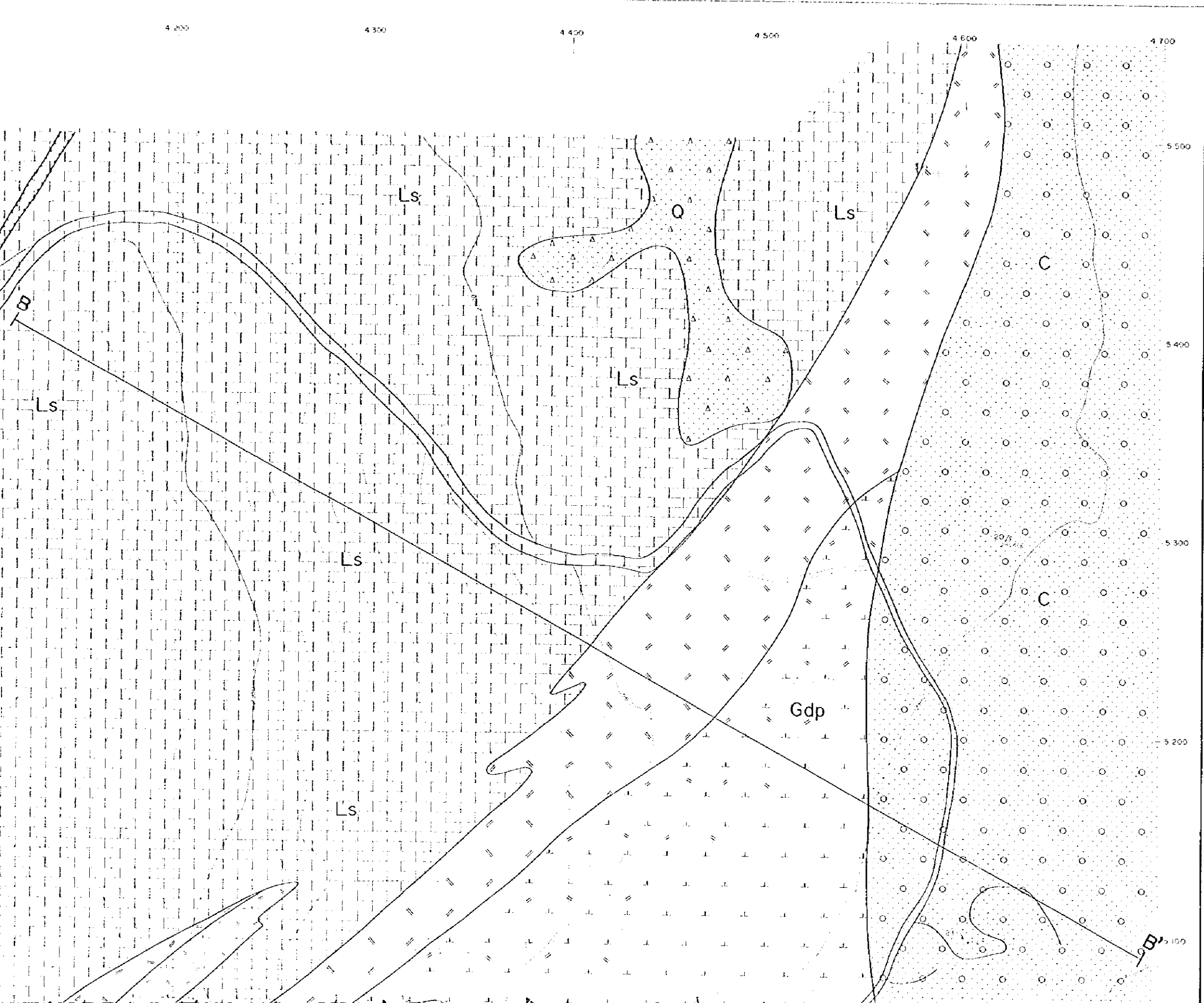


LEGEND

- | | | | |
|-------------------|--|-----|---|
| | | W | waste, ancient extraction |
| Quaternary | | Q | sand, clay
unconsolidated sediments |
| Tertiary | | C | conglomerate |
| Carboniferous | | Ls | limestone, marble |
| [Intrusive Rocks] | | | |
| Permian | | Gdp | granodiorite porphyry
(Chalmers complex) |
| Carboniferous | | Qmz | quartz monzonite
(Sandaikush complex) |
| | | | massive skarn
(exo skarn) |
| | | | skarnized limestone |
| | | | granodiorite porphyry |
| | | | silicified
granodiorite porphyry
(endo skarn) |
| | | | mineralized zone |
| | | | fault |
| | | | strike and dip of strata |
| | | | inferred fault |

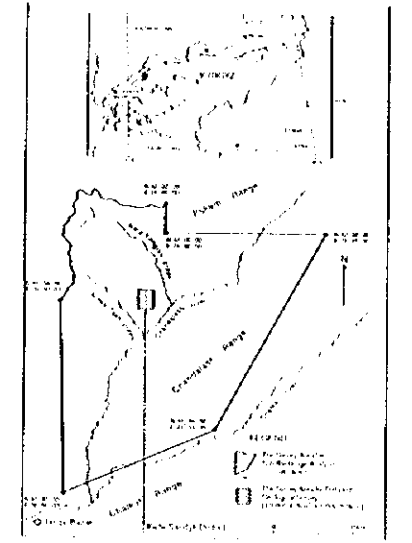


Quar
Terf
Cob
C Int
Per
Cor

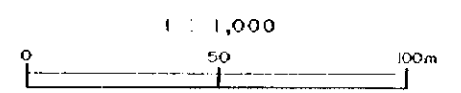


THE MINERAL EXPLORATION
IN
THE KICHI-SANDYK DISTRICT
THE KYRGHYZ REPUBLIC
(PHASE D)

Geological Map of the Kichi-Sandyk Deposit
(1:1,000)



JAPAN INTERNATIONAL COOPERATION AGENCY
METAL MINING AGENCY OF JAPAN
FEBRUARY 1998
Prepared by MIMCO

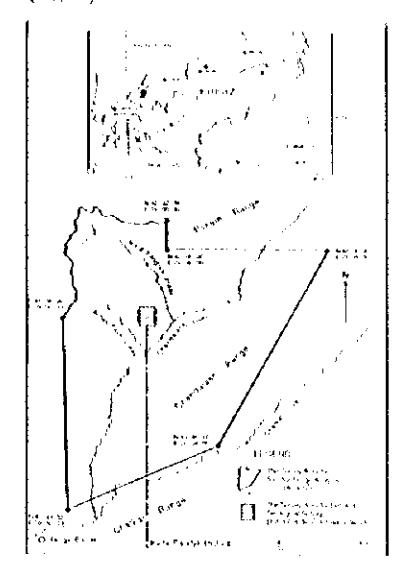
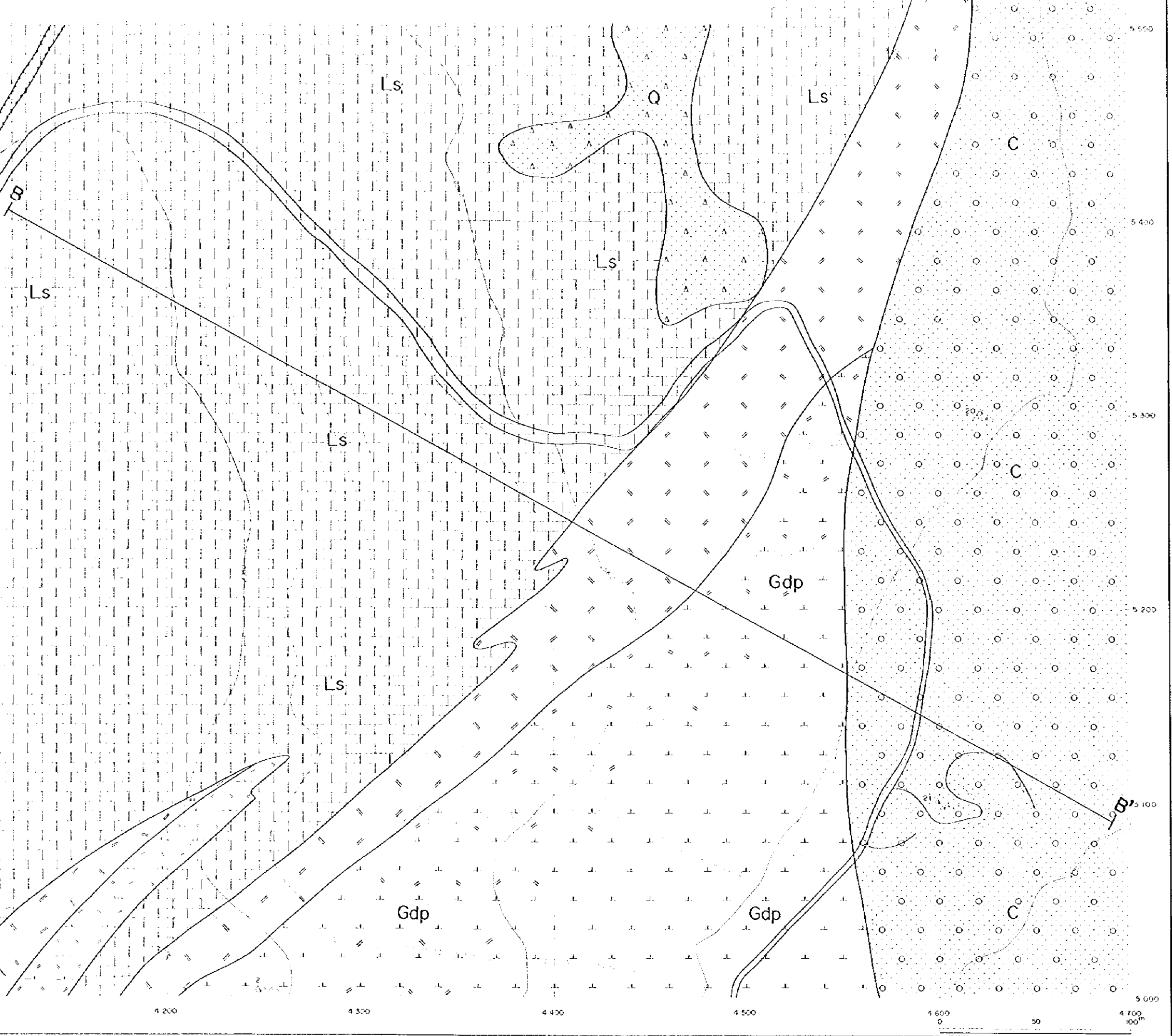


LEGEND

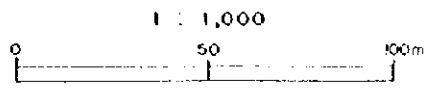
- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marl
- [Intrusive Rocks]
- Permian Gdp granodiorite porphyry (Chimkansay complex)
- Carboniferous Qnz quartz monzonite (Sardokash complex)
- massive skarn (exo-skarn)
- skarnized limestone
- granodiorite porphyry
- silicified granodiorite porphyry



- LEGEND**
- Quaternary
 - Tertiary
 - Carboniferous
 - Intrusive Rocks
 - Permian
 - Carboniferous
 - massive texture
 - gneiss
 - mineral vein
 - fault



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LEGEND

- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary C conglomerate
- Carboniferous Ls limestone, marble
- (Intrusive Rocks)
- Permian Gdp granodiorite porphyry (Chakinsay complex)
- Carboniferous Ornz quartz monzonite (Sandakish complex)
- massive skarn (exo skarn)
- skarnized limestone
- granodiorite porphyry
- silicified granodiorite porphyry (endo skarn)
- mineralized zone
- strike and dip of strata
- fault
- inferred fault