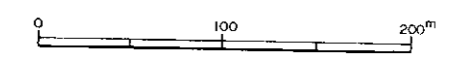


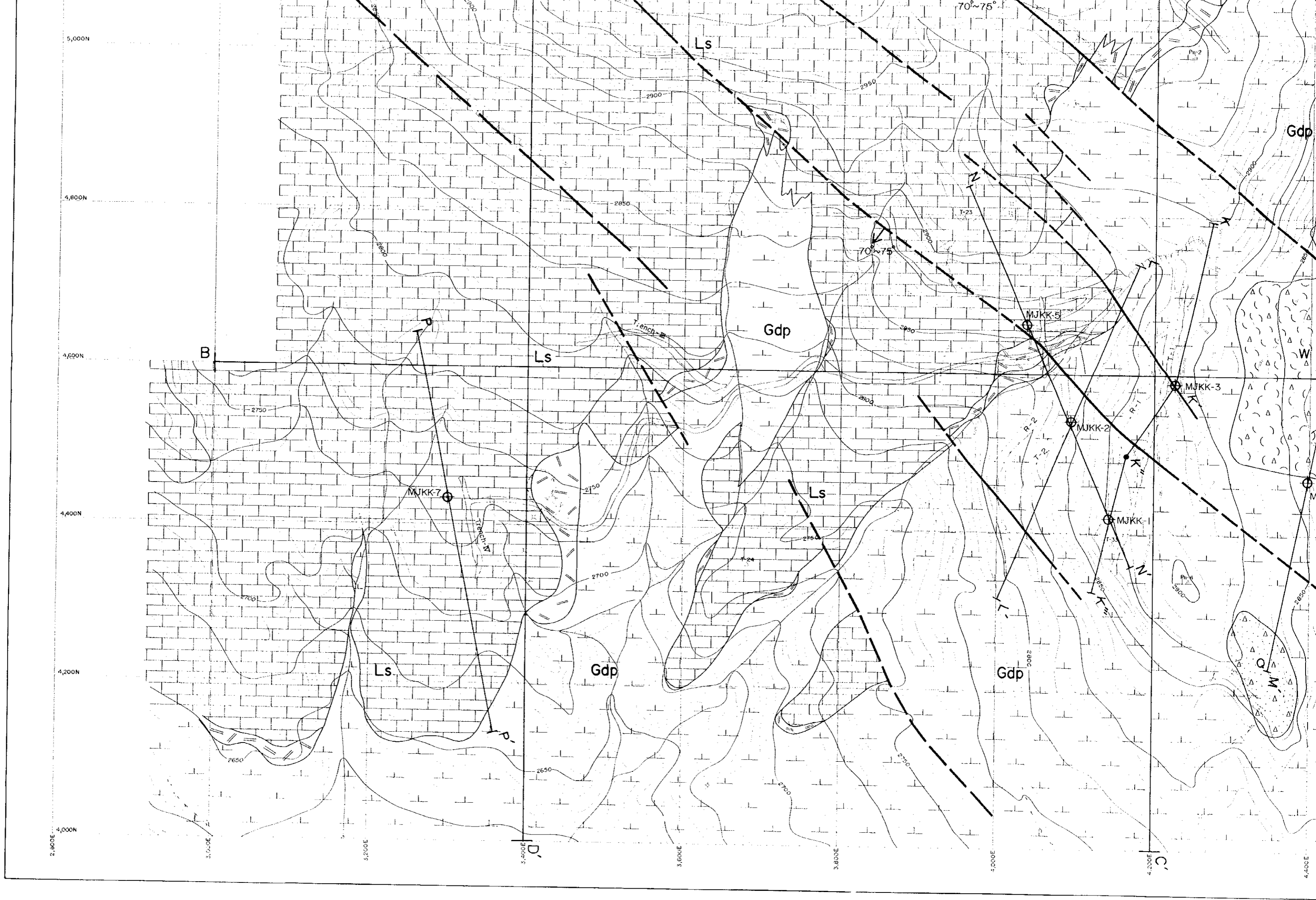
THE MINERAL EXPLORATION Pl. II-1-1  
 IN  
 THE KICHI-SANDYK, THE KYRGHYZ REPUBLIC  
 (PHASE II)  
 Geological Map of the Kichi-Sandyk District

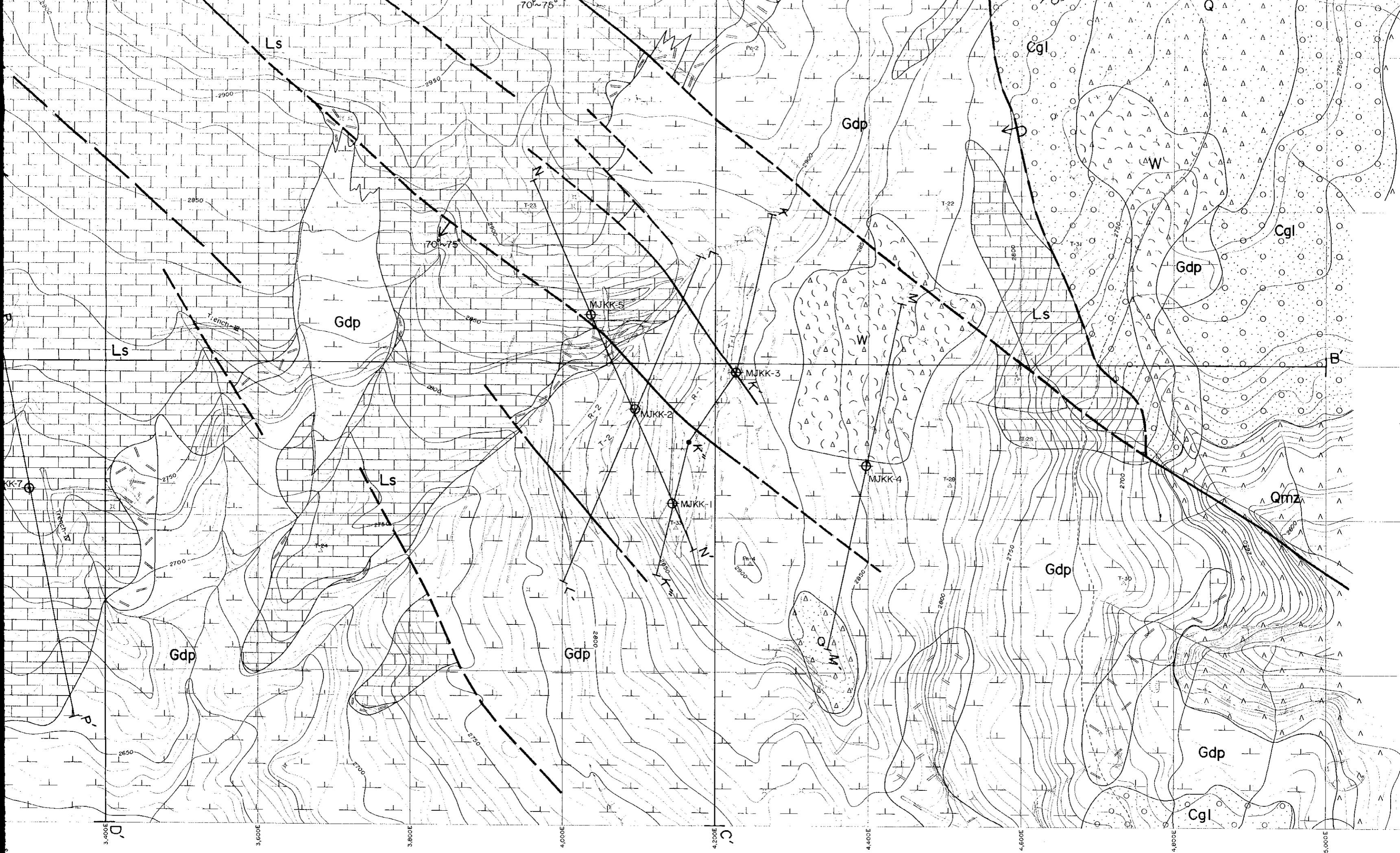
JAPAN INTERNATIONAL COOPERATION AGENCY  
 METAL MINING AGENCY OF JAPAN  
 FEBRUARY 1999  
 Prepared by MINDELCO

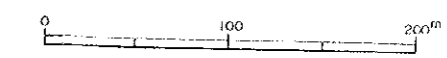
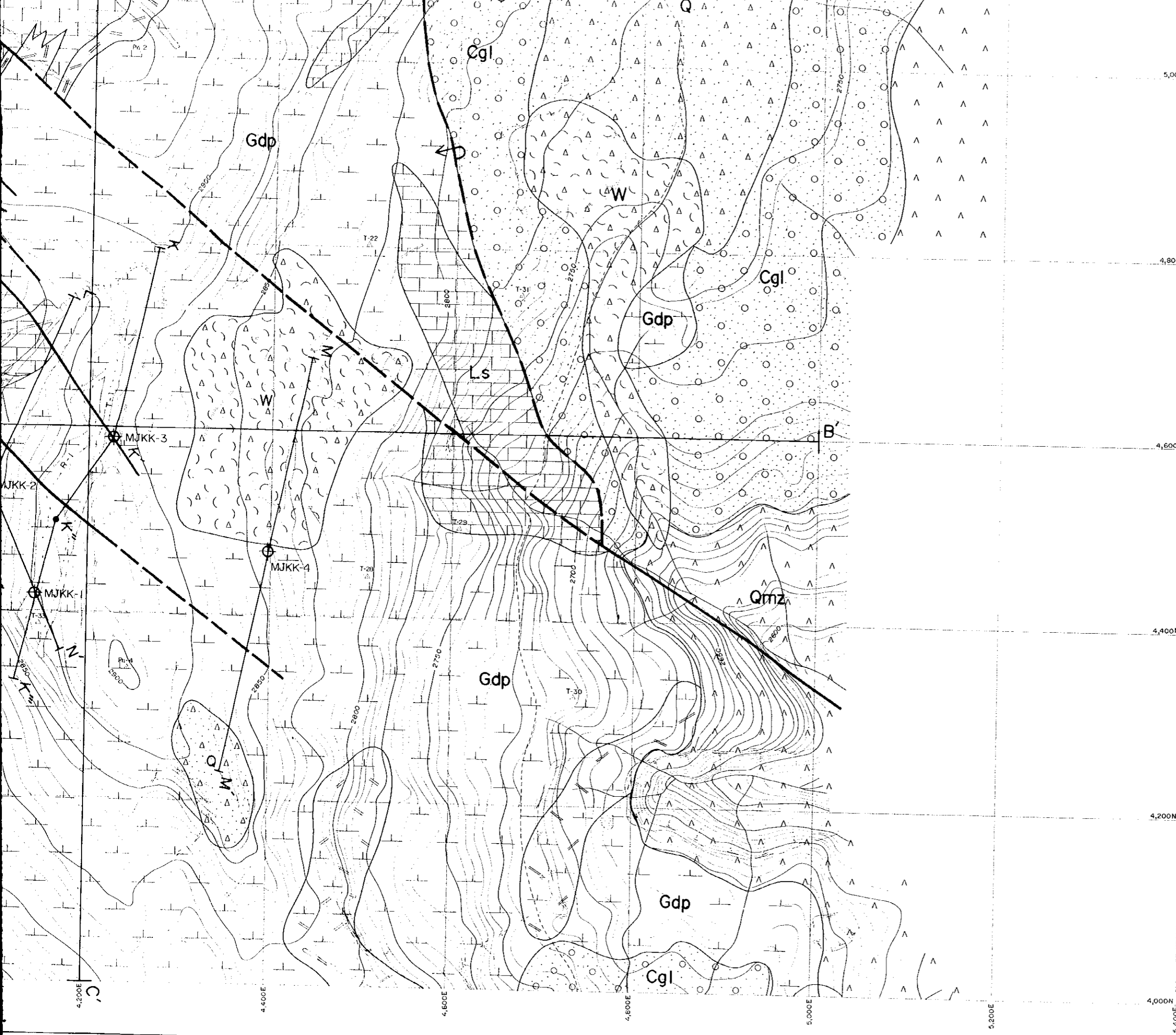


**LEGEND**












- W Excavated rocks, Dump of ancient extraction
- Q Soil, Sand, Gravel
- Cgl Conglomerate
- Ls Limestone
- Gdp Granodiorite porphyry
- Qmz Quartz monzonite
- Sk Skarn
- Thrust
- Fault

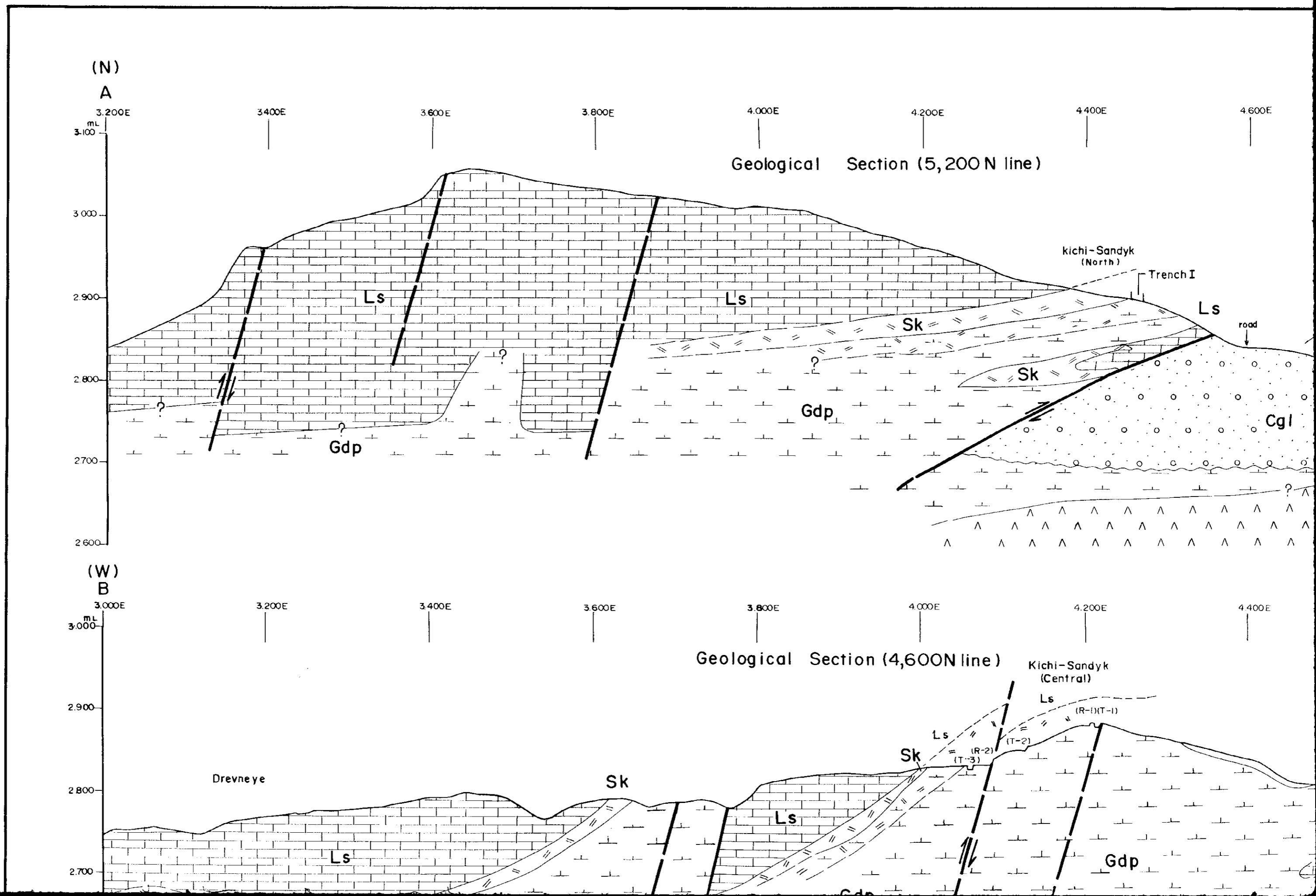






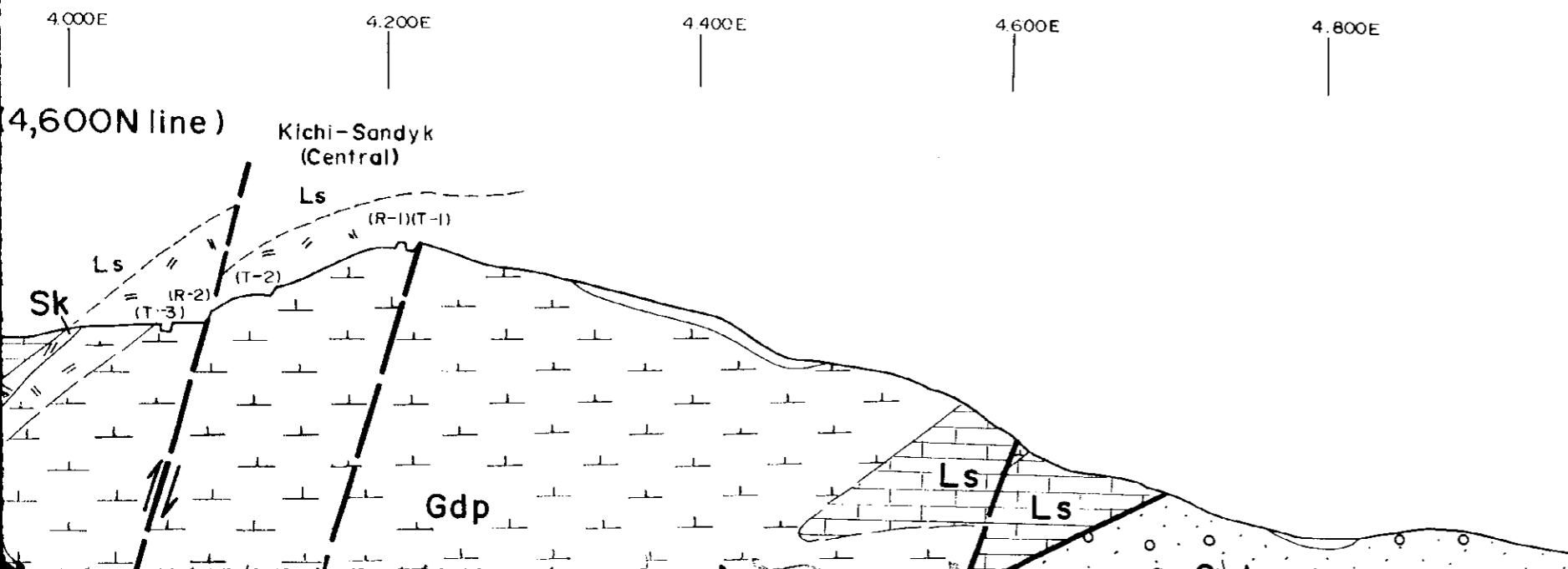
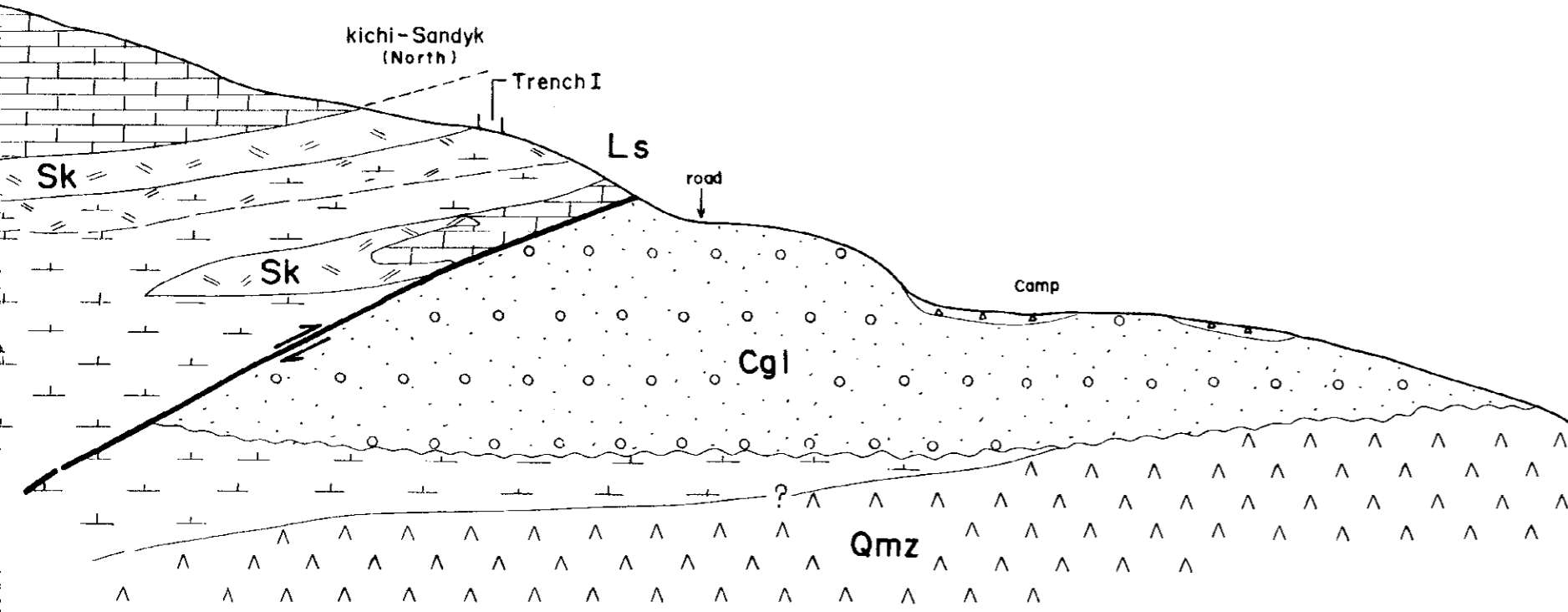
LEGEND

-  W Excavated rocks, Dump of ancient extraction
-  Q Soil, Sand, Gravel
-  Cgl Conglomerate
-  Ls Limestone
-  Gdp Granodiorite porphyry
-  Qmz Quartz monzonite
-  Sk Skarn
-  Thrust
-  Fault
-  MJKK-1 Drill Hole
-  A A' Line of geological section

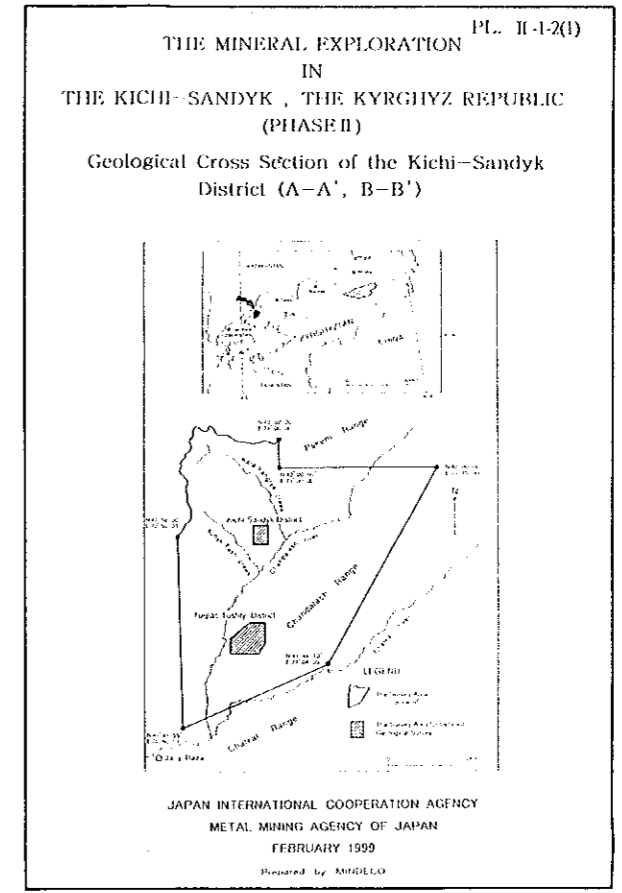




4.200E 4.400E 4.600E 4.800E 5.000E  
 ion (5,200N line)

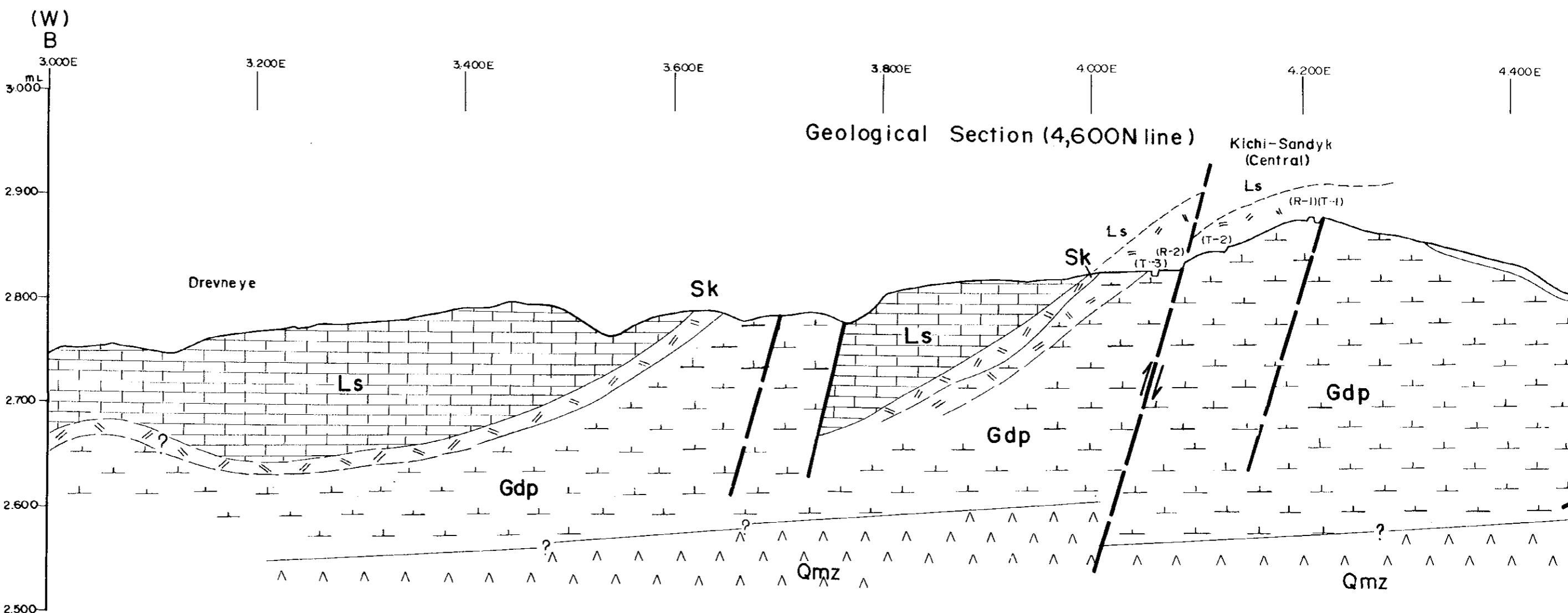
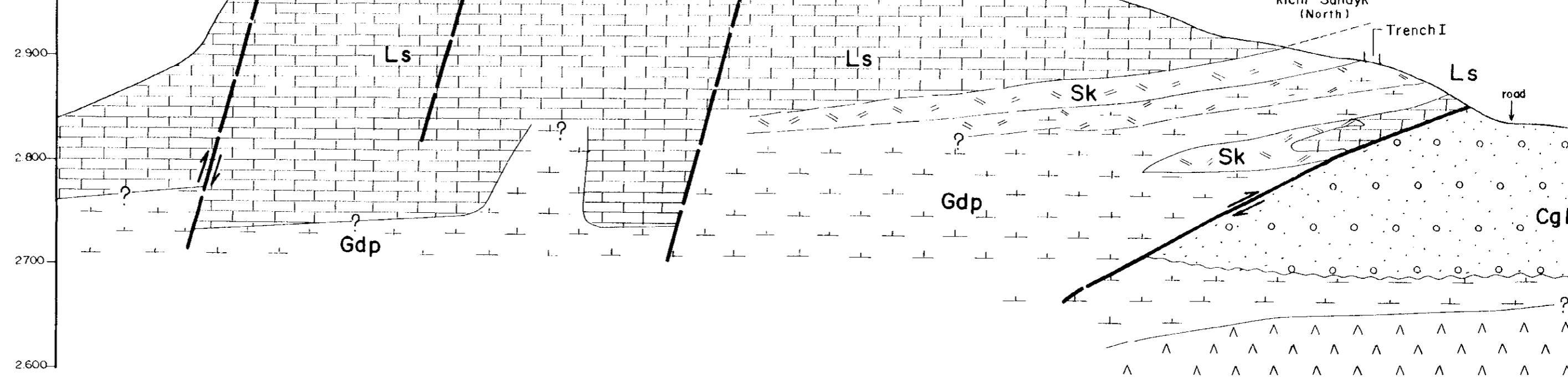


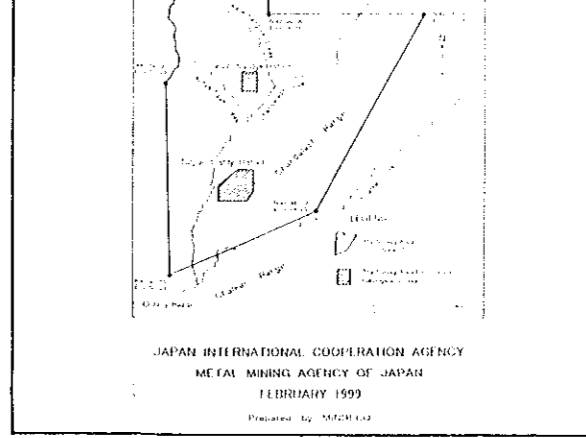
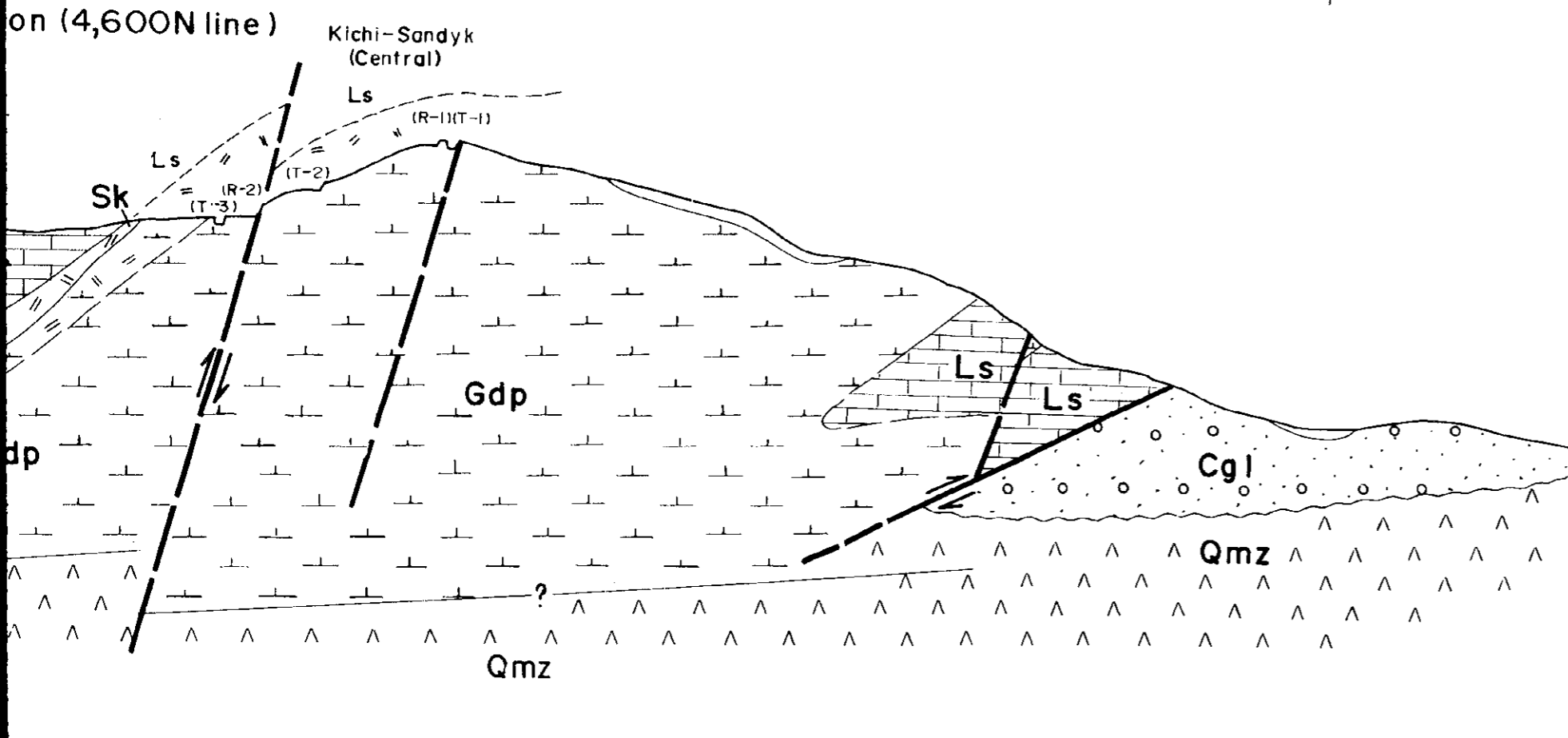
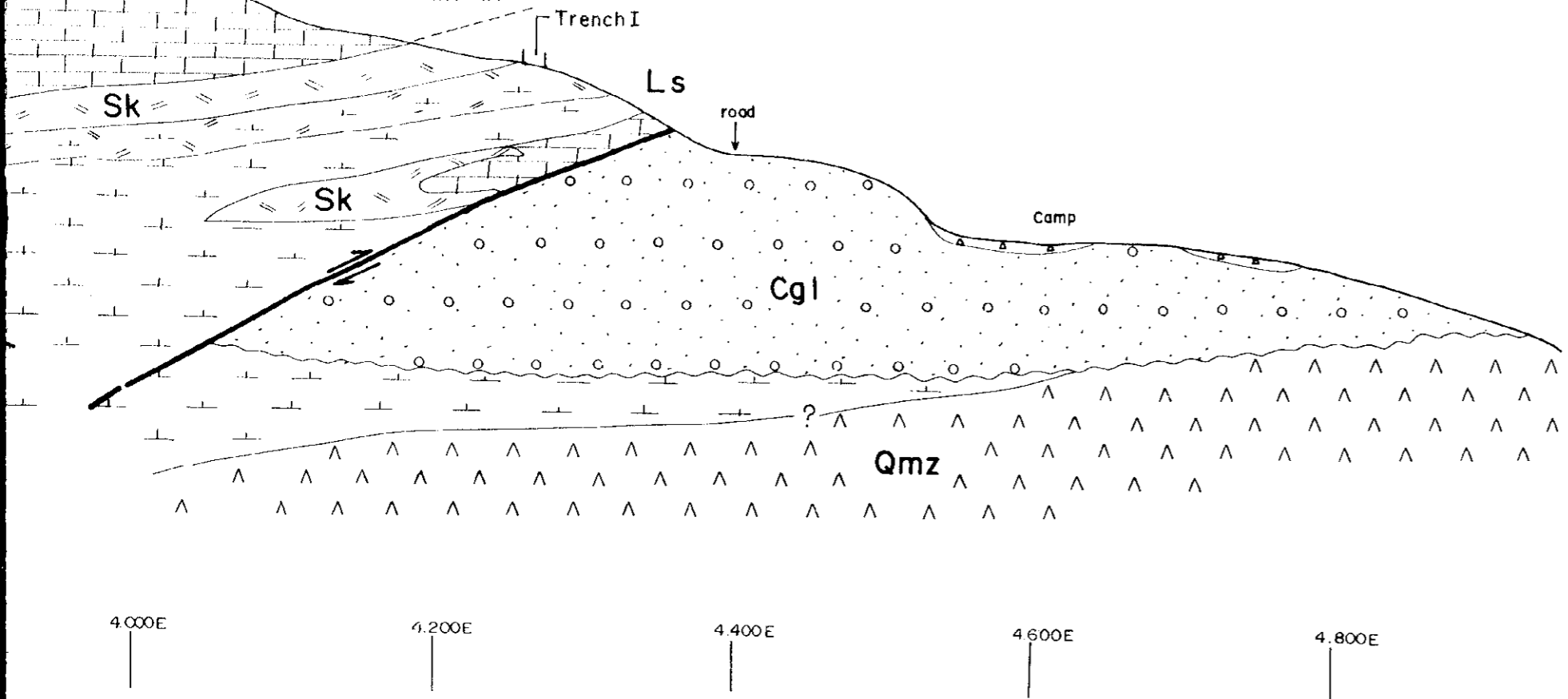
(E) A' 5.200E 3.100 mi. 3.000 2.900 2.800 2.700 2.600  
 (E) B' 5.000E 3.000 ml. 2.900 2.800 2.700



LEGEND

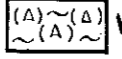
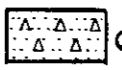
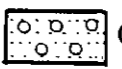
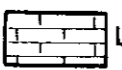
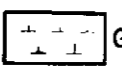
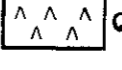
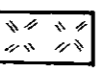

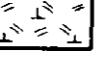
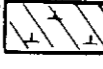


		W waste, ancient extractions
Quaternary		Q sand clay unconsolidated sediments
Tertiary (?)		C Conglomerate
Carboniferous		Ls limestone
Permian		Gdp granodiorite porphyry (chalmersay complex)
Carboniferous		Qmz quartz monzonite (sanddash complex)
		massive skarn (exo skarn)
		limestone with skarn

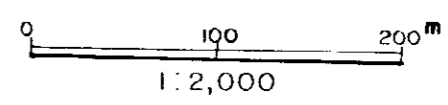




JAPAN INTERNATIONAL COOPERATION AGENCY  
 METAL MINING AGENCY OF JAPAN  
 FEBRUARY 1999  
 Prepared by MAMCO

LEGEND

- |               |   |     |  |
|---------------|---|-----|--|
|               |    | W   | waste, ancient extractions                 |
| Quaternary    |    | Q   | sand clay unconsolidated sediments         |
| Tertiary (?)  |    | C   | conglomerate                               |
| Carboniferous |    | Ls  | limestone                                  |
| Permian       |  | Gdp | granodiorite porphyry (chalmersay complex) |
| Carboniferous |  | Qmz | quartz monzonite (sandalash complex)       |
|               |  |     | massive skarn (exo skarn)                  |
|               |  |     | limestone with skarn                       |
|               |  |     | granodiorite porphyry with skarn           |
|               |  |     | silicified granodiorite porphyry           |
|               |  |     | fault                                      |
|               |  |     | inferred fault                             |



(N)  
C

3000  
ml  
2900  
2800  
2700  
2600  
2500

5.400N

5.200N

5.000N

4.800N

4.600N

4.400N

4.200N

Kichi-Sandyk  
(North)

Sk

Geological Section (4,200E line)

Kich-Sandyk  
(Central)

Ls

Gdp

Gdp

Gdp

Qmz

(R-2,T-2)

(R-1)

(R-1)

(T-1)

(N)  
D

3000  
ml  
2900  
2800  
2700

5.200N

5.000N

4.800N

4.600N

4.400N

4.200N

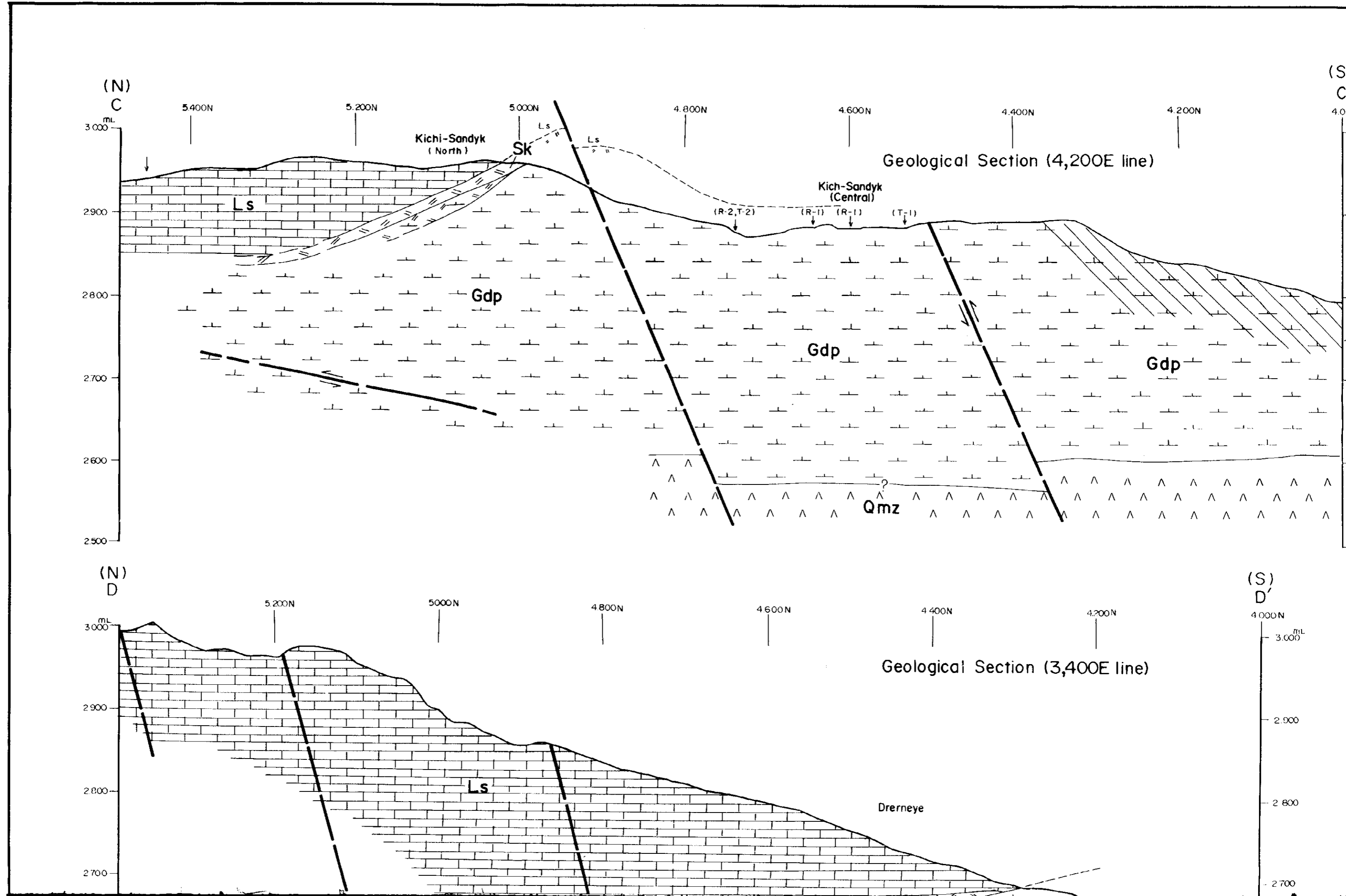
Ls

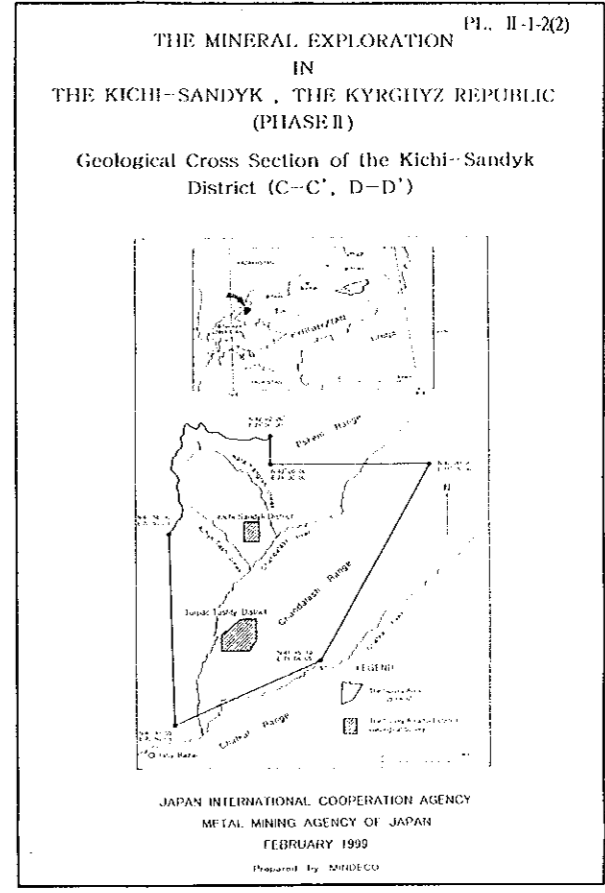
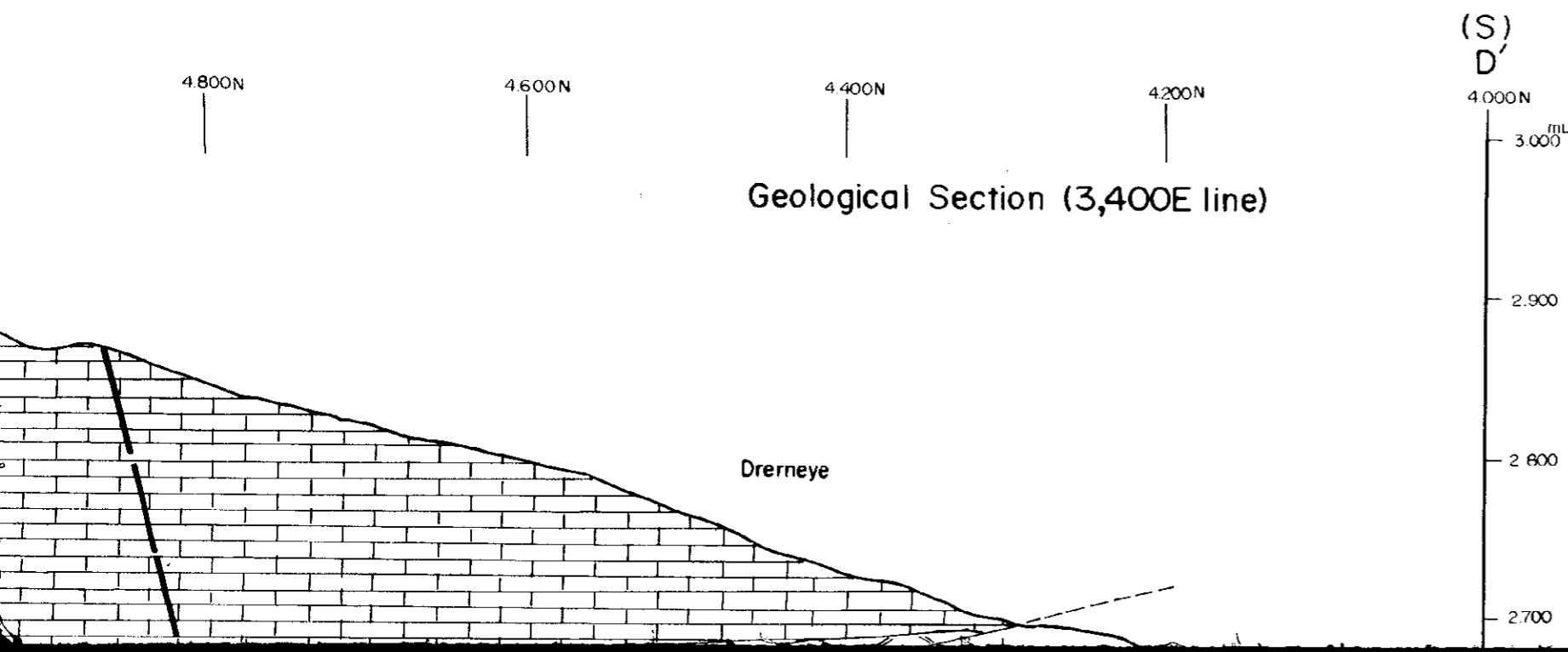
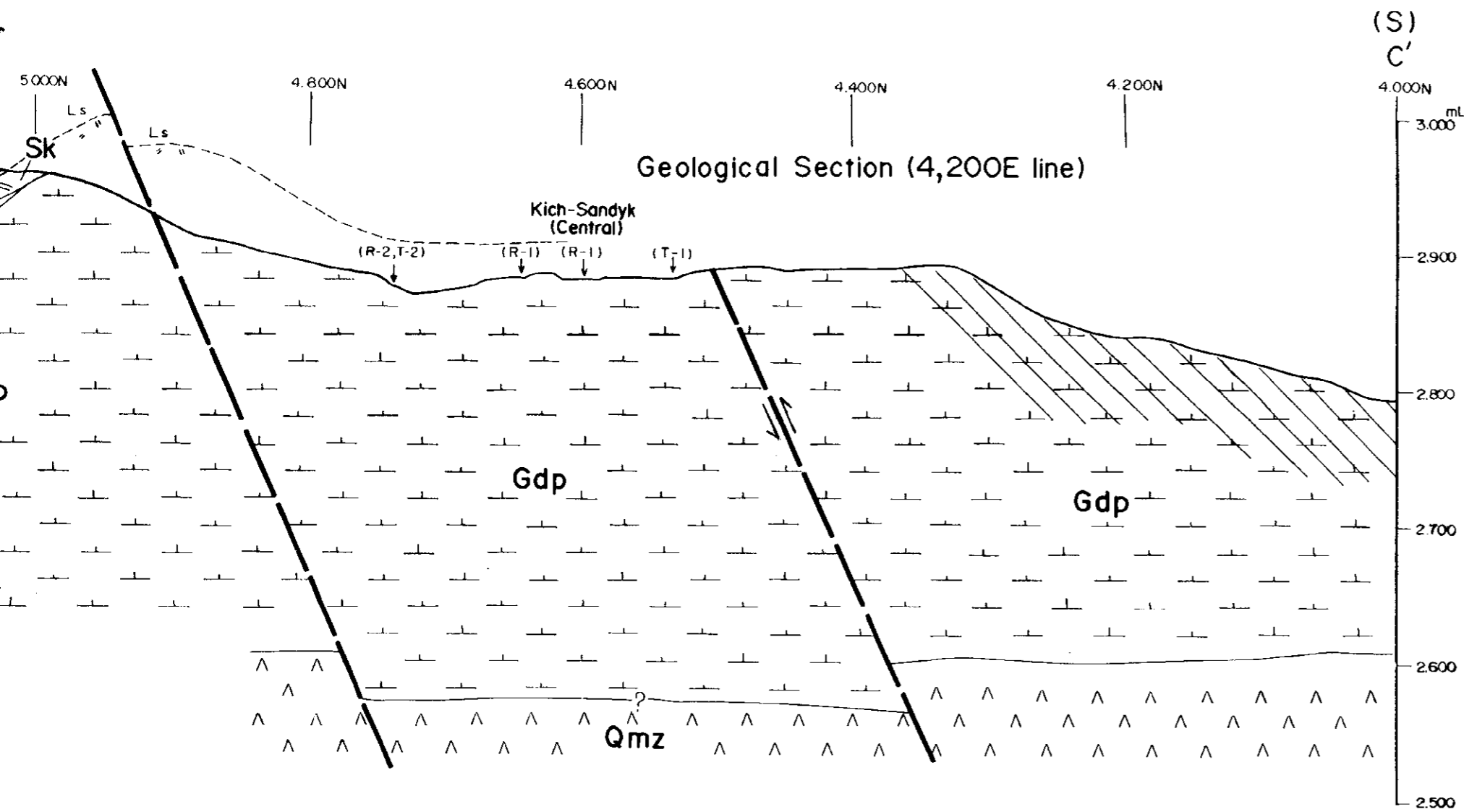
Drerneye

(S)  
D'

4000N  
3000  
ml  
2900  
2800  
2700

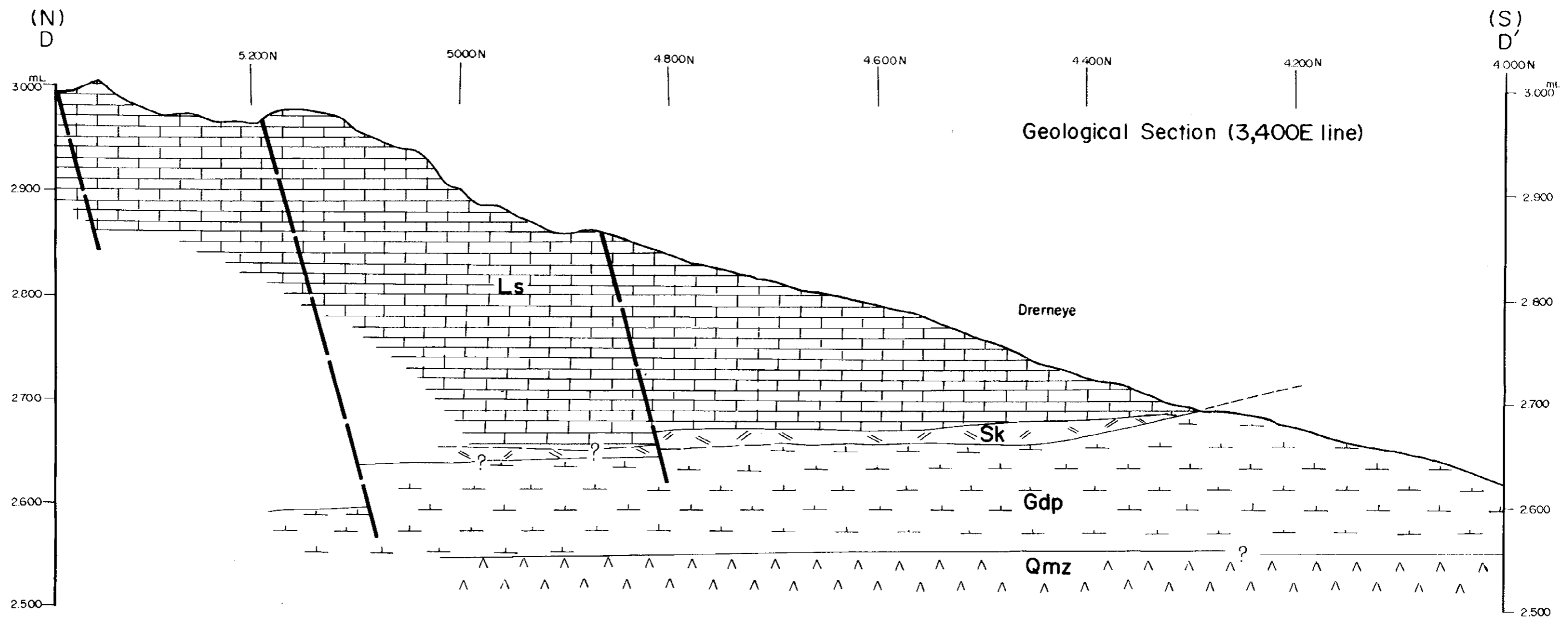
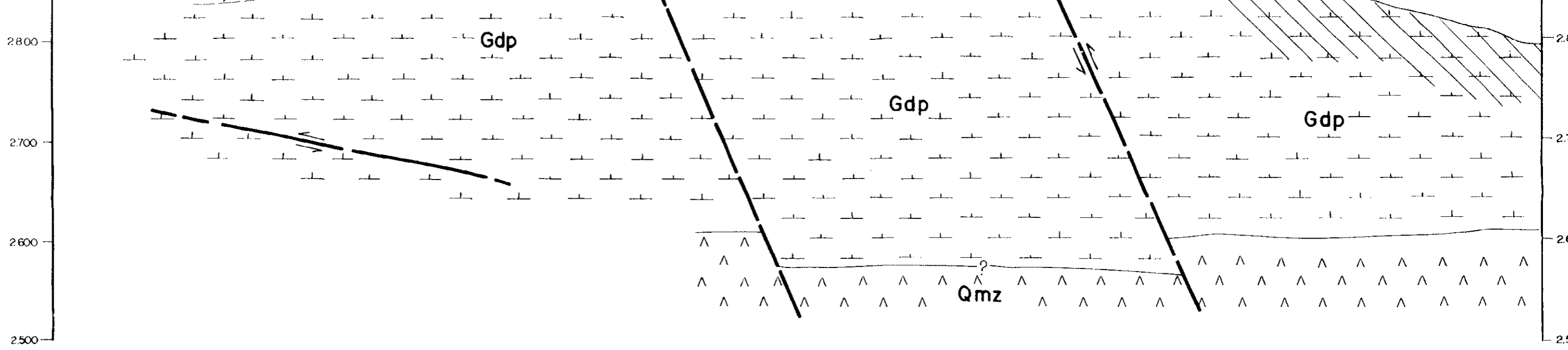
Geological Section (3,400E line)

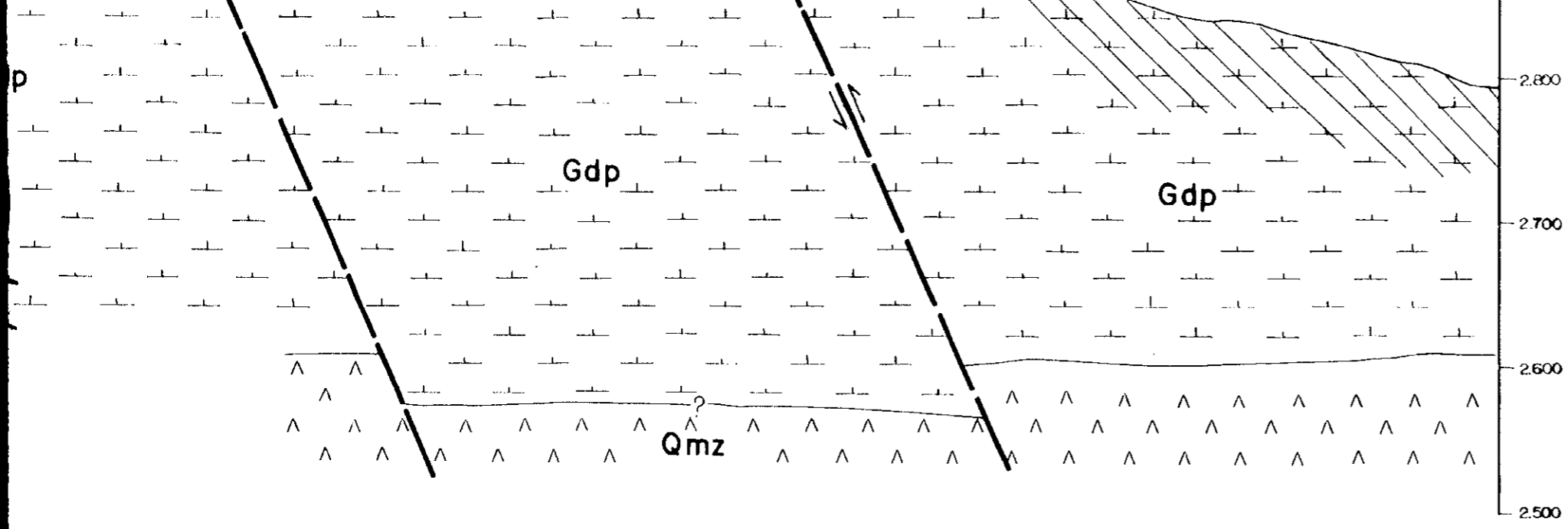
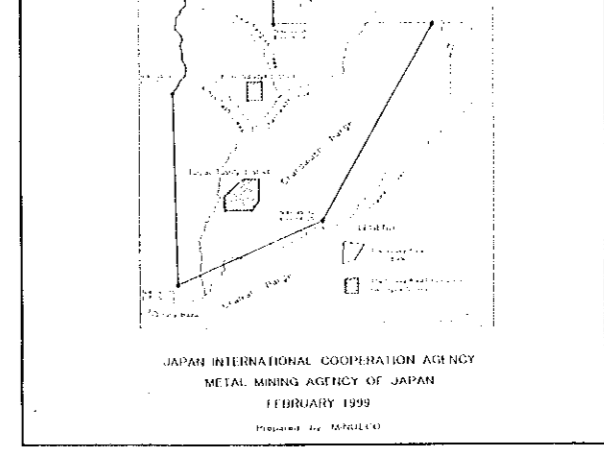




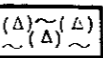
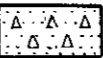
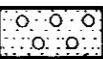
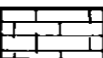
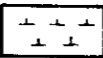







LEGEND

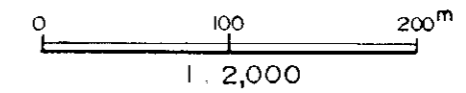
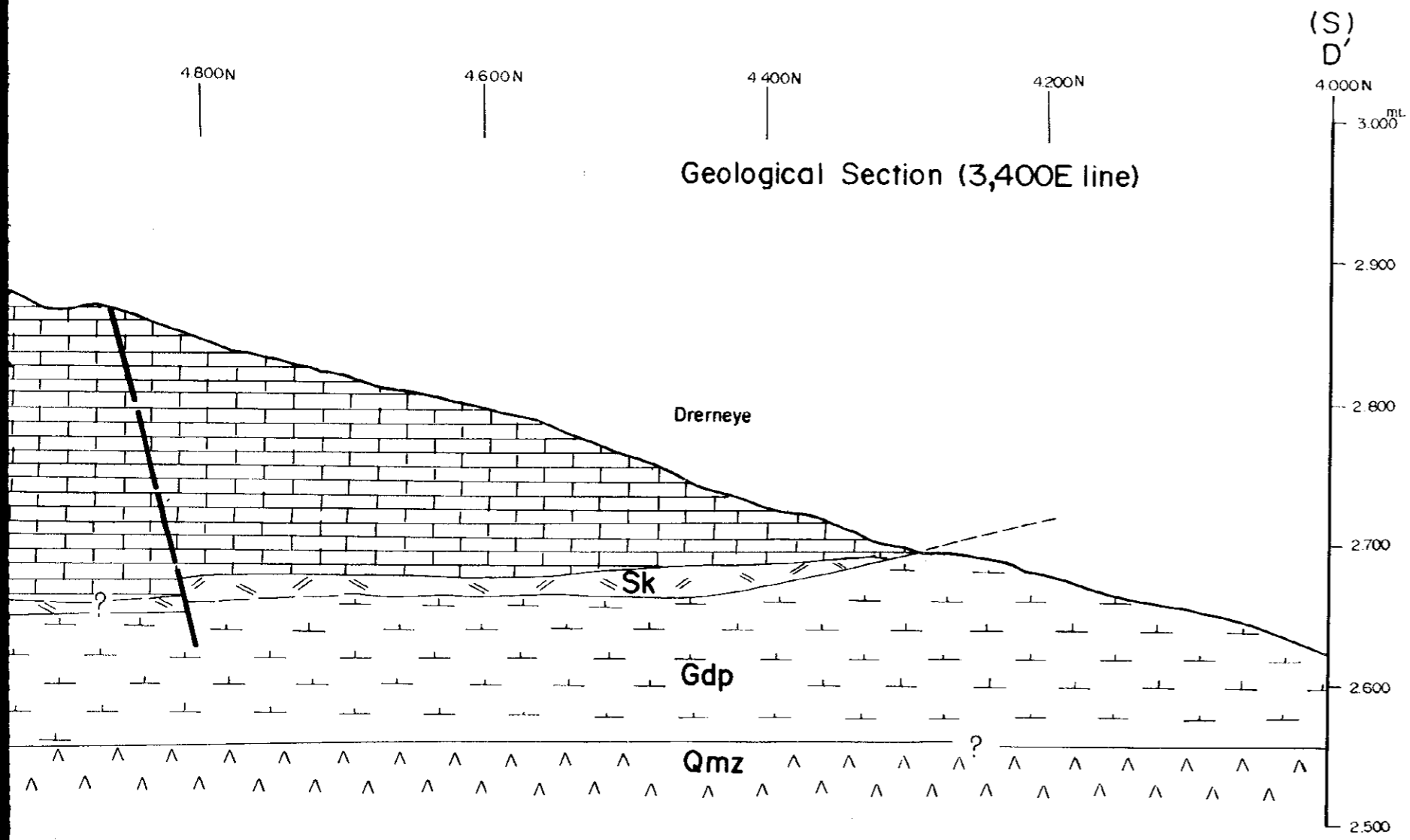
- W waste, ancient extractions
- Quaternary Q sand, clay unconsolidated sediments
- Tertiary (?) C conglomerate
- Carboniferous Ls limestone
- Permian Gdp granodiorite porphyry (chalmersay complex)
- Carboniferous Qmz quartz monzonite (sandalash complex)
- massive skarn (ex skarn)
- limestone with skarn





LEGEND

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



2,800E 5,600N

3,000E

3,200E

3,400E

3,600E

3,800E

4,000E

4,200E

4,400E

5,400N

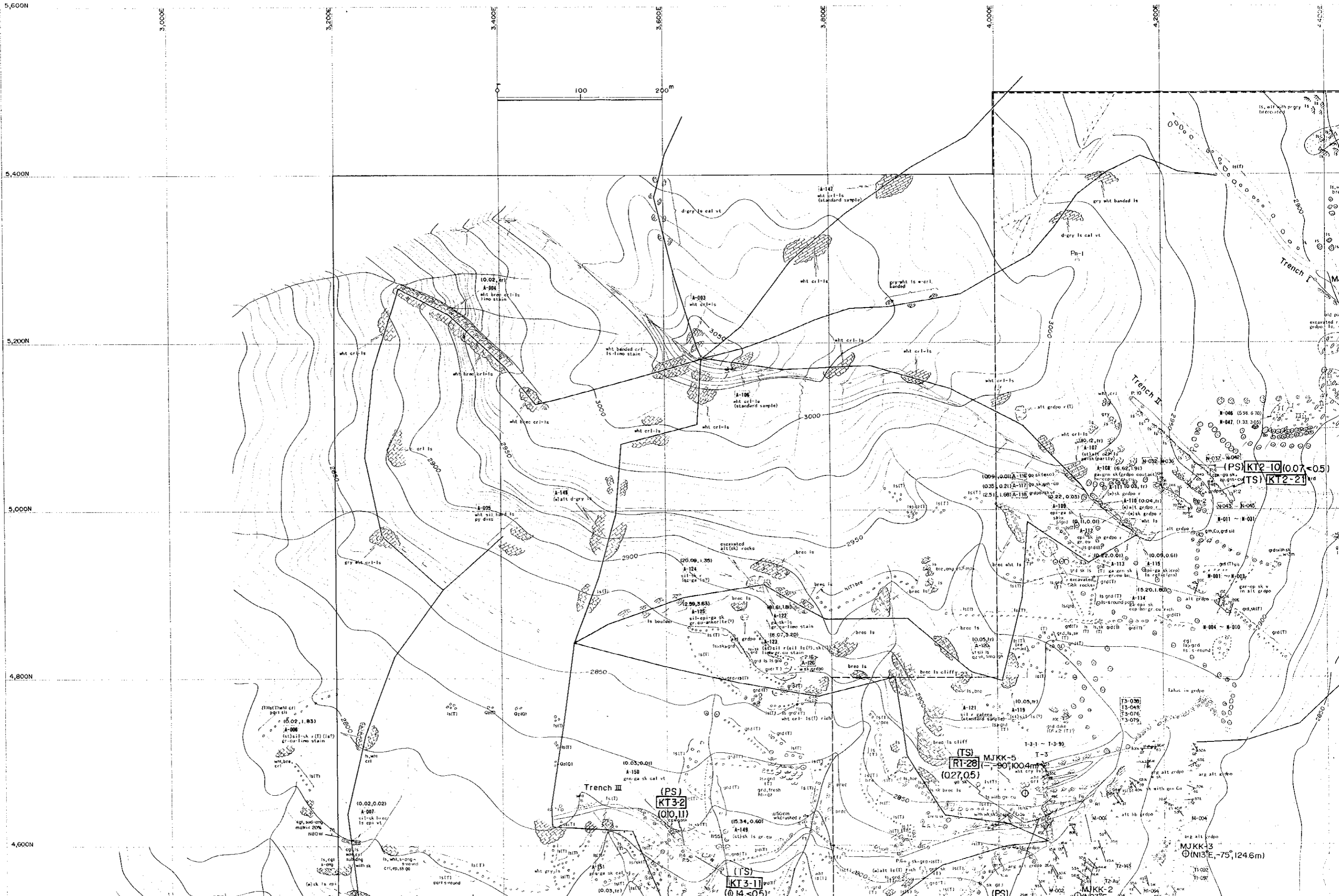
5,200N

5,000N

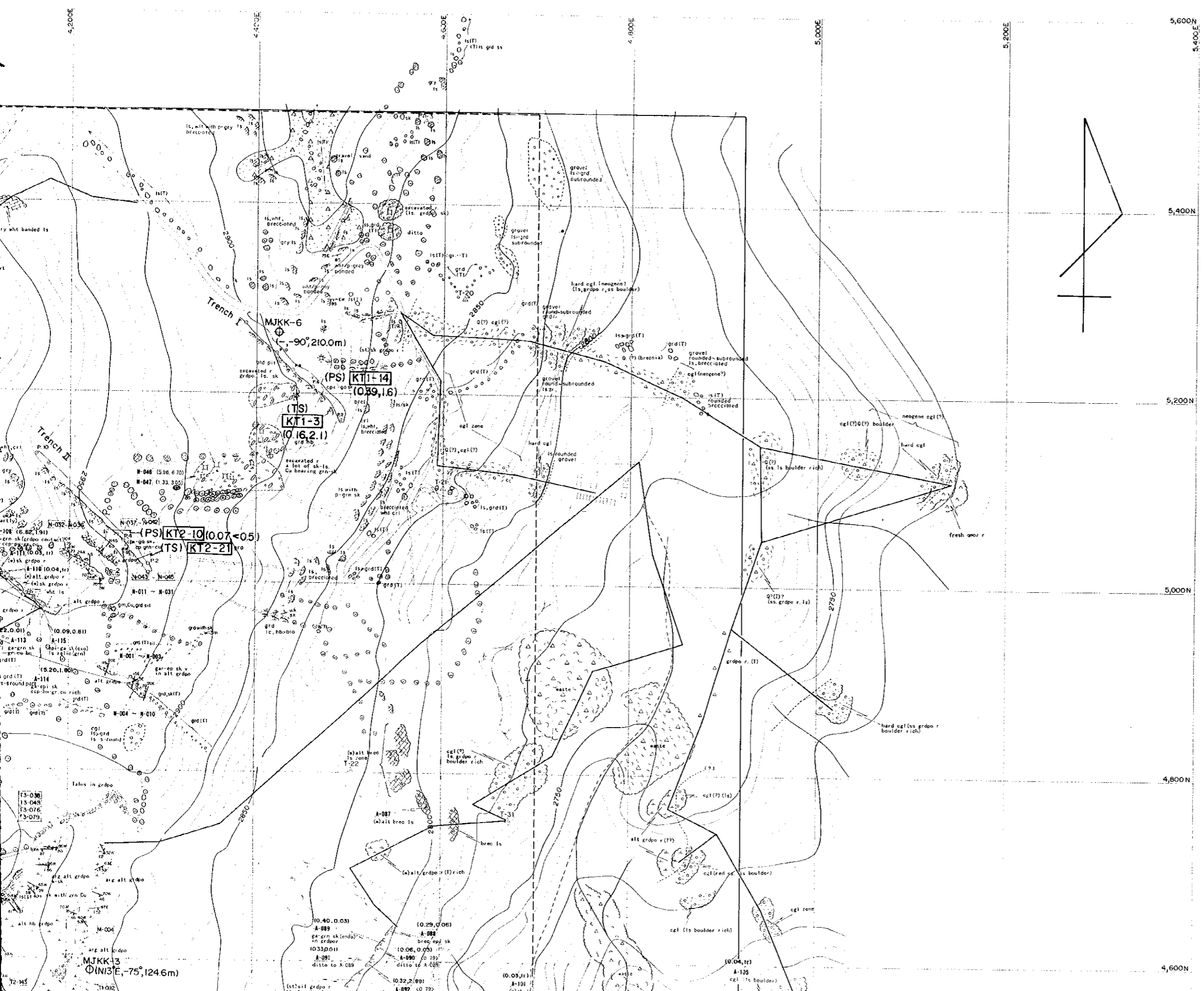
4,800N

4,600N

100 200m

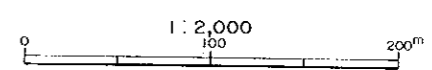






THE MINERAL EXPLORATION PL. II-1-3  
 IN  
 THE KICH-SANDYK, THE KYRGHYZ REPUBLIC  
 (PHASE II)  
 Location Map of Rock Samples in the Kichi-Sandyk District

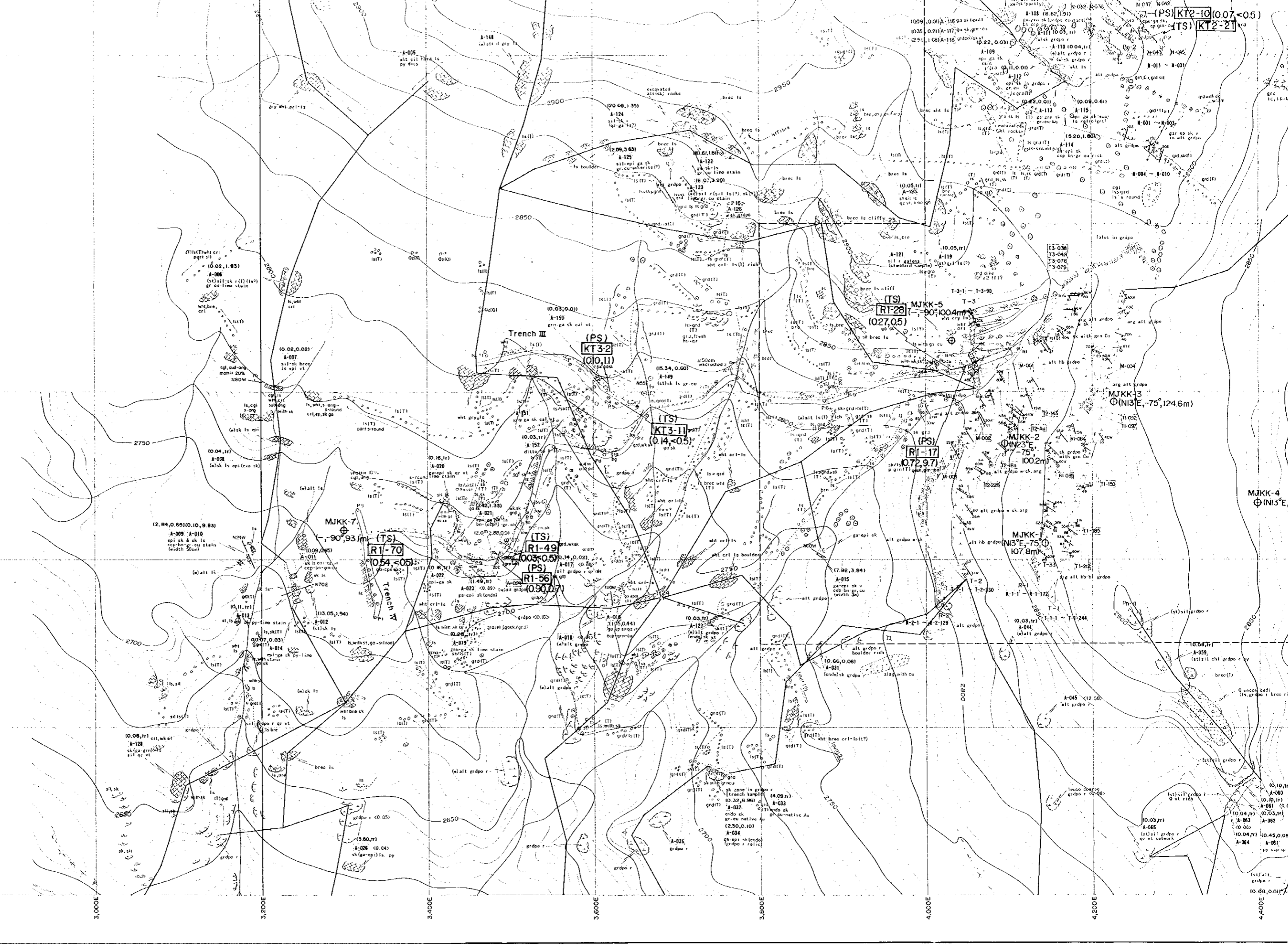
JAPAN INTERNATIONAL COOPERATION AGENCY  
 METAL MINING AGENCY OF JAPAN  
 FEBRUARY 1999  
 Prepared by MANDECO



LEGEND

- W Excavated rocks, Dump of ancient extraction
- Q Soil, Sand, Grovel
- Cgl Conglomerate
- Ls Limestone
- Gdp Granodiorite porphyry
- Qmz Quartz monzonite
- Sk Skarn
- MJKK-1 Drill Hole

5,000  
4,800  
4,600  
4,400  
4,200  
4,000  
2,800E 3,000E 3,200E 3,400E 3,600E 3,800E 4,000E 4,200E 4,400E



(PS) KT2-10 (007-05)  
(TS) KT2-21

(TS) MJKK-5  
RI-28 (027,05)

(PS) Trench III  
KT3-2 (010,11)

(TS) MJKK-1  
RI-11 (014,05)

(PS) MJKK-2  
RI-17 (072,97)

MJKK-7  
RI-70 (054,05)

(TS) MJKK-4  
RI-49 (003,05)

(PS) MJKK-3  
RI-56 (090,07)

MJKK-4  
RI-17 (072,97)

MJKK-3  
RI-28 (027,05)

MJKK-2  
RI-11 (014,05)

MJKK-1  
RI-70 (054,05)

MJKK-5  
RI-28 (027,05)

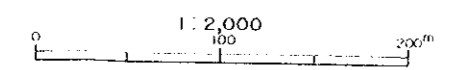
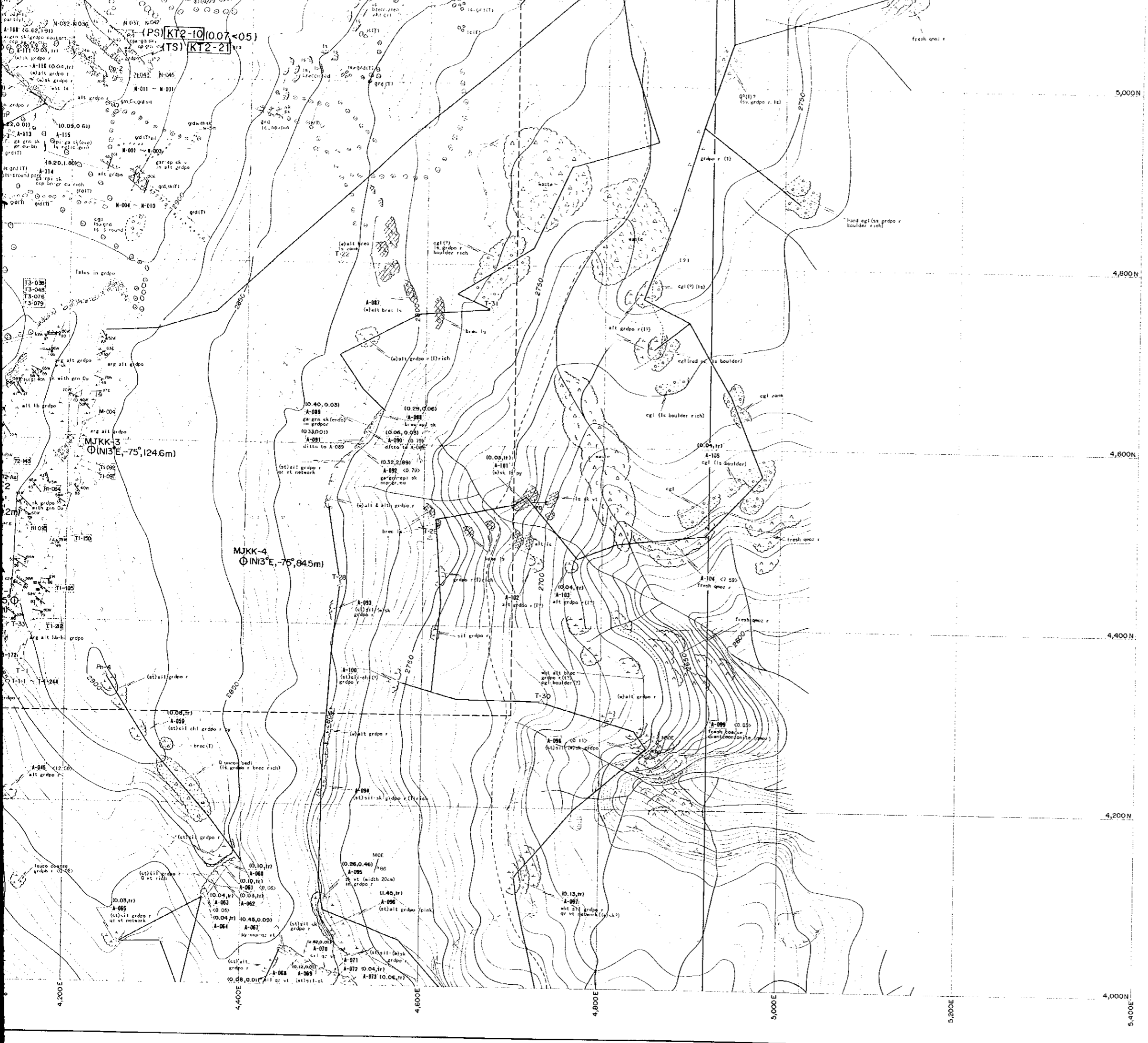
MJKK-4  
RI-11 (014,05)

MJKK-3  
RI-56 (090,07)

MJKK-2  
RI-49 (003,05)

MJKK-1  
RI-70 (054,05)

(0,10,11)  
A-060  
(0,10,11)  
A-061  
(0,04,17)  
A-062  
(0,05,19)  
A-063  
(0,04,17)  
A-064  
(0,45,0,09)  
A-065  
(0,04,17)  
A-066  
(0,04,17)  
A-067  
(0,04,17)



**LEGEND**

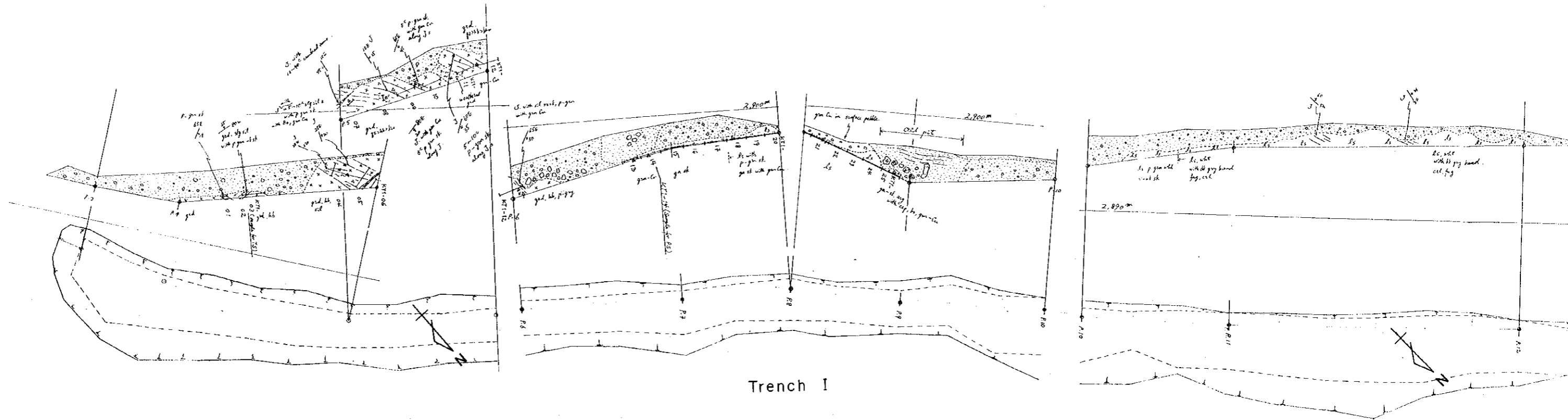
- W Excavated rocks, Dump of ancient extraction
- Q Soil, Sand, Gravel
- Cgl Conglomerate
- Ls Limestone
- Gdp Granodiorite porphyry
- Qmz Quartz monzonite
- Sk Skarn
- MJKK-1 Drill Hole

(TS) (laboratory work)  
**KT1-3** Sample No.  
 (0.16, 2.1) (Au %/t, Cu %)

**laboratory works**

- TS : Thin Section
- PS : Polished Thin Section
- XR : X-ray diffraction
- FI : Fluid Inclusion

(0.04, tr) (Au %/t, Cu %)  
**A-105** Sample No. in 1997 (Phase I)

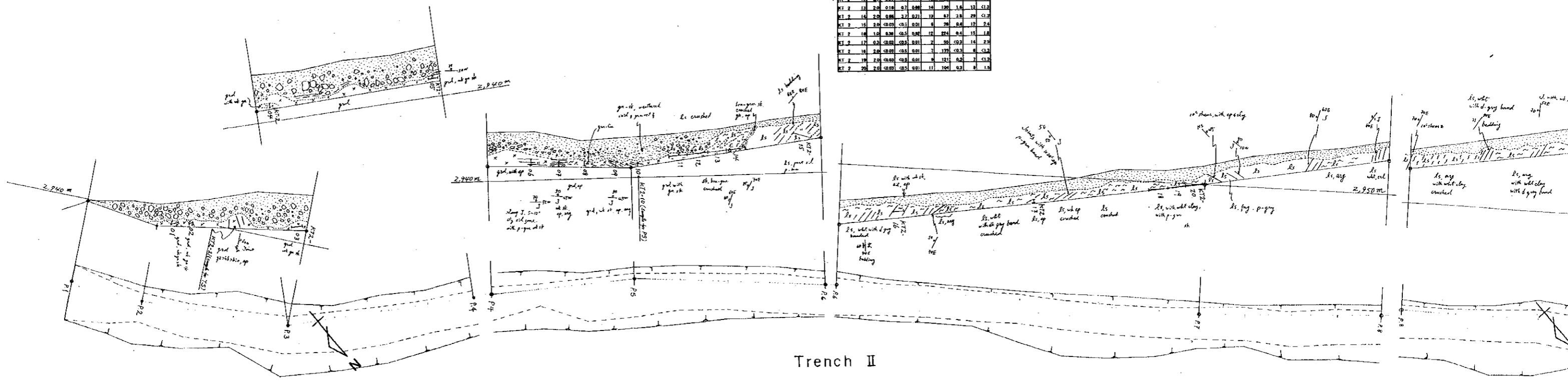


Trench I

Sample No.	Moist.	Organic Matter	CaCO <sub>3</sub>	pH	Specific Gravity	Shrinkage
KT 1	0.2	0.11	0.5	7.4	1.4	17
KT 2	0.4	0.28	0.6	6.94	1.5	24
KT 3	2.1	0.16	2.1	6.98	1.8	19
KT 4	1.2	1.25	3.2	6.22	2.0	40
KT 5	2.2	0.88	0.6	6.94	2.0	30
KT 6	1.0	0.88	0.5	6.94	2.0	21
KT 7	0.3	0.22	1.4	6.12	2.0	17
KT 8	0.5	0.25	2.2	6.16	2.0	24
KT 9	1.8	0.15	1.2	6.08	2.0	18
KT 10	2.0	0.94	0.9	6.02	2.4	37
KT 11	1.8	0.12	1.6	6.14	2.0	41
KT 12	2.2	0.86	0.9	6.08	2.4	29
KT 13	2.0	0.85	0.8	6.04	2.4	29

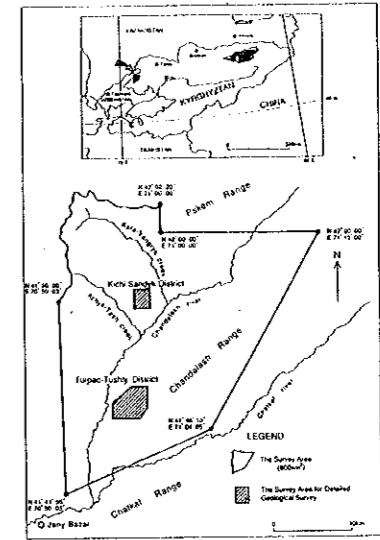
Sample No.	Moist.	Organic Matter	CaCO <sub>3</sub>	pH	Specific Gravity	Shrinkage
KT 14	2.0	0.28	1.6	6.48	2.2	32
KT 15	2.1	0.80	0.5	6.91	2.1	32
KT 16	2.0	0.82	0.8	6.92	2.2	32
KT 17	2.0	0.25	0.8	6.92	2.1	17
KT 18	2.0	0.84	0.8	6.91	2.1	18
KT 19	2.0	0.82	0.5	6.92	2.1	17
KT 20	2.0	0.12	1.1	6.08	2.1	16
KT 21	0.8	0.86	1.2	6.12	2.1	17
KT 22	2.1	0.18	0.6	6.70	2.1	17
KT 23	1.8	0.84	0.8	6.92	2.1	17
KT 24	2.1	0.84	0.8	6.91	2.1	17
KT 25	2.0	0.14	0.8	6.24	2.1	16

Sample No.	Moist.	Organic Matter	CaCO <sub>3</sub>	pH	Specific Gravity	Shrinkage
KT 2	1.0	0.17	0.5	6.11	2.0	14
KT 2	0.5	0.14	0.5	6.98	1.7	10
KT 2	1.2	0.27	0.5	6.92	1.8	10
KT 2	0.5	0.25	0.8	6.92	1.7	10
KT 2	1.0	0.10	0.5	6.92	1.8	10
KT 2	0.8	0.28	0.5	6.92	1.7	10
KT 2	0.8	0.28	0.5	6.92	1.8	10
KT 2	0.6	1.88	0.5	6.46	2.0	28
KT 2	0.8	0.82	0.5	6.88	1.8	10
KT 2	1.0	0.4	0.5	6.88	1.7	10
KT 2	1.1	2.0	0.28	6.98	1.7	10
KT 2	1.2	0.2	0.5	6.96	1.8	10
KT 2	1.2	2.0	0.18	6.7	1.8	10
KT 2	1.4	2.0	0.88	6.7	1.7	10
KT 2	1.5	2.0	0.07	6.5	1.8	10
KT 2	1.6	1.0	0.28	6.94	1.8	10
KT 2	1.7	0.2	0.82	6.91	2.0	10
KT 2	1.8	2.0	0.82	6.91	2.0	10
KT 2	1.9	2.0	0.82	6.91	2.0	10
KT 2	2.0	2.0	0.82	6.91	2.0	10

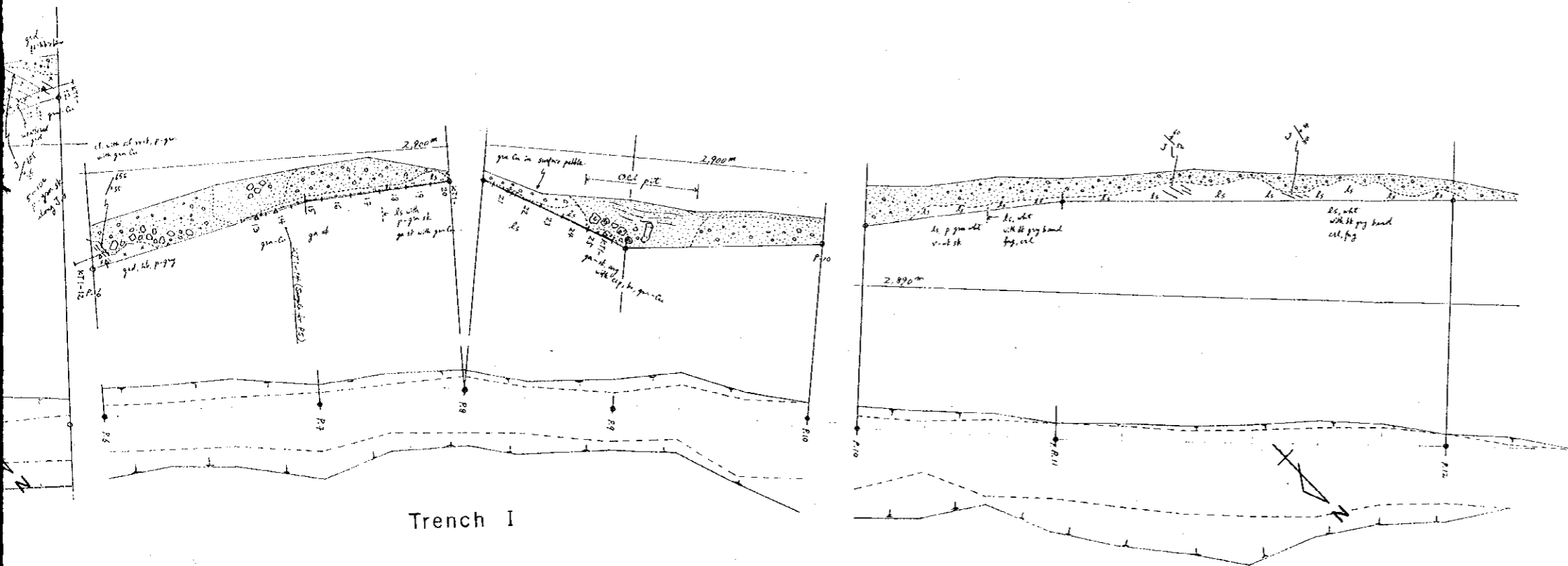


Trench II

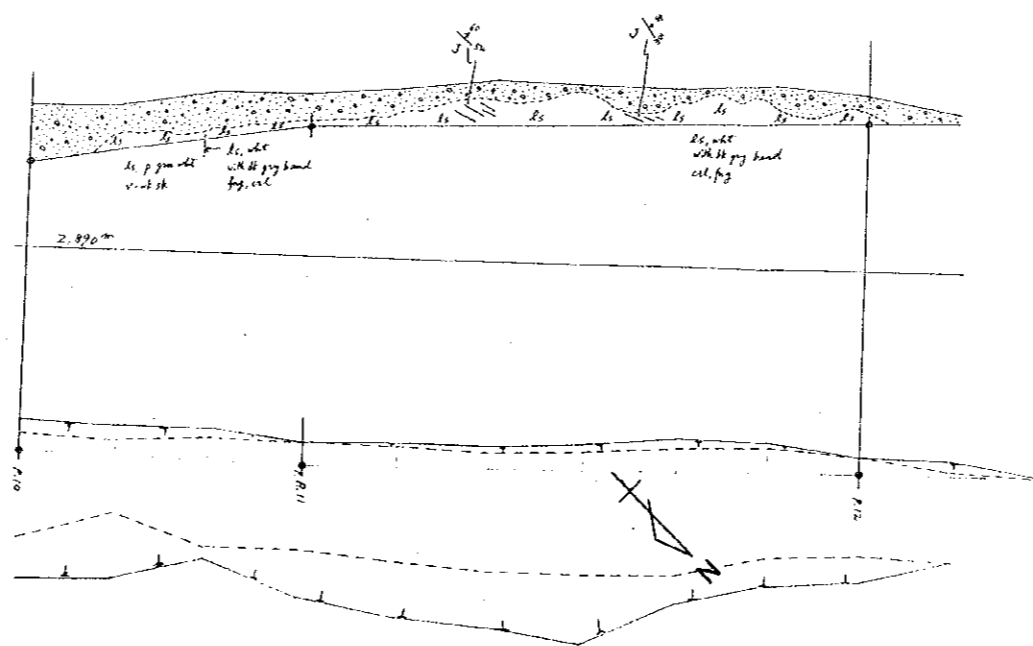
THE MINERAL EXPLORATION PL. II-14 (I)  
 IN  
 THE KICHI-SANDYK, THE KYRGHYZ REPUBLIC  
 (PHASE II)  
 Geological Sketch of Trenches  
 in the Kichi-Sandyk District  
 (Trench I, II)



JAPAN INTERNATIONAL COOPERATION AGENCY  
 METAL MINING AGENCY OF JAPAN  
 FEBRUARY 1999  
 Prepared by MINDECO



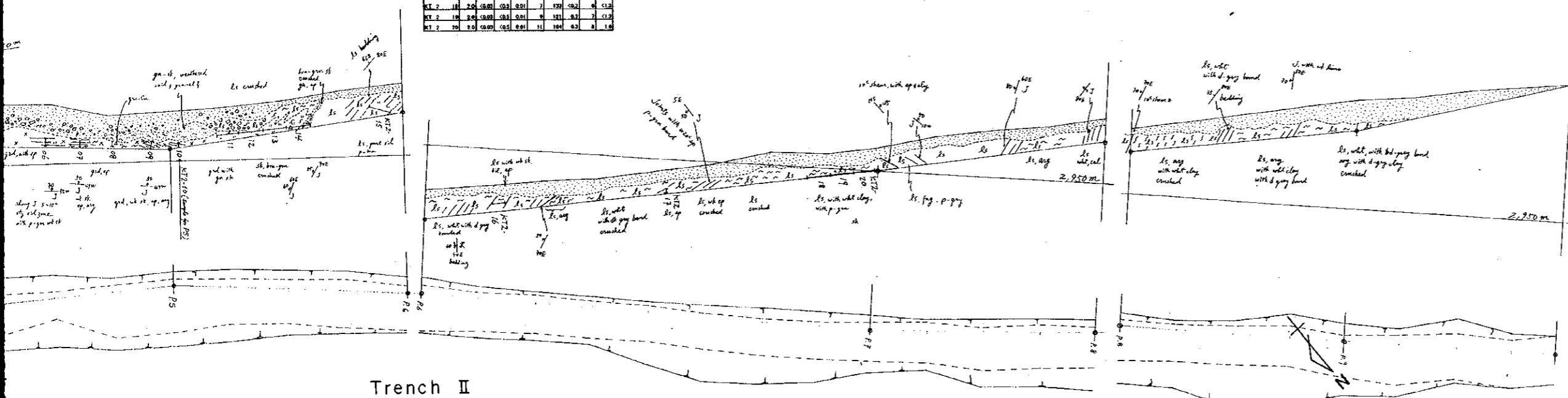
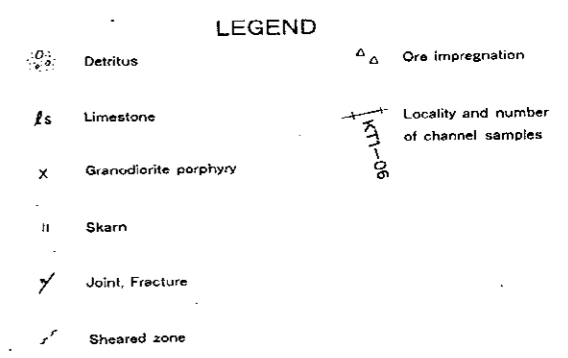
Trench I

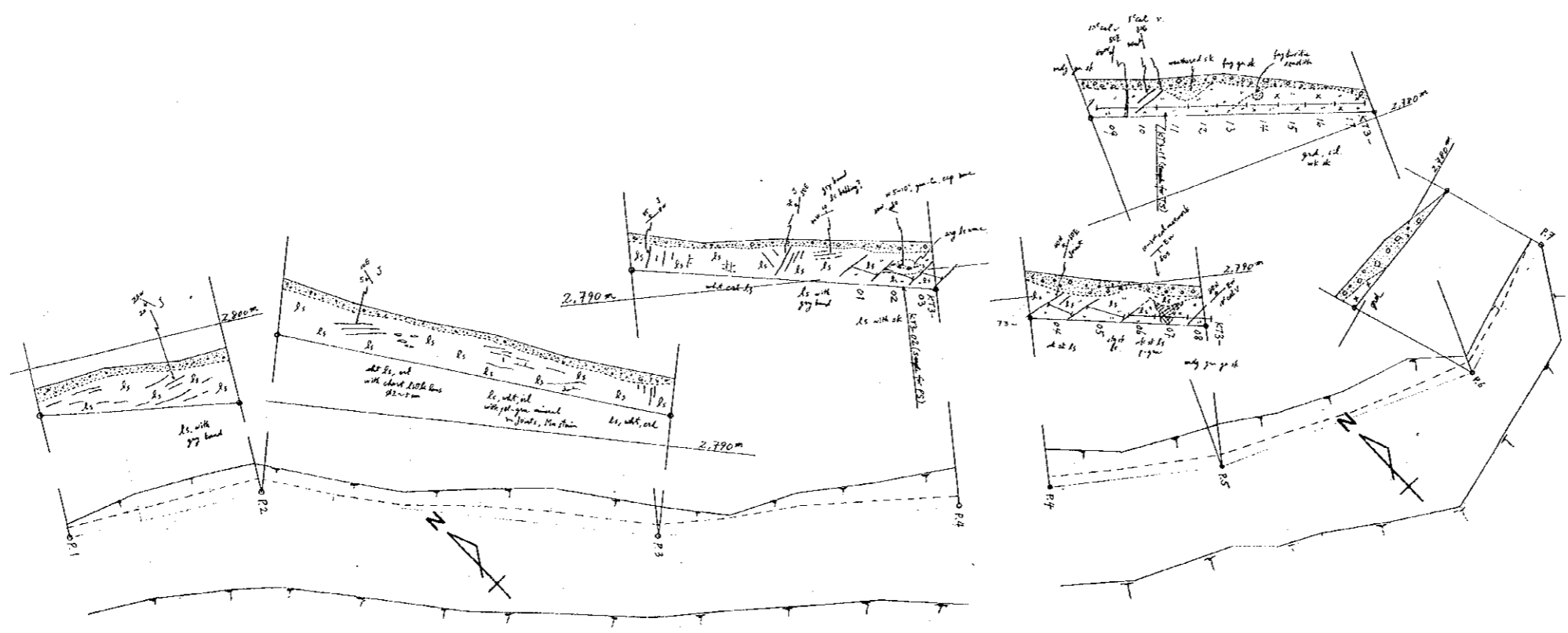
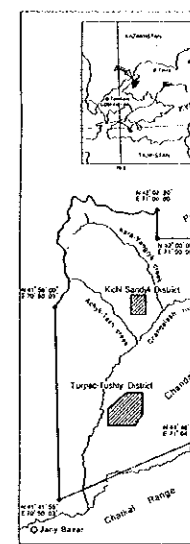


Trench II

Sample No.	Lat. N	Long. E	Altitude	Depth	Stratigraphic Unit	Remarks
MT 1	41° 20'	75° 30'	2200	0.15	S1	Detritus
MT 2	41° 20'	75° 30'	2200	0.30	S1	Detritus
MT 3	41° 20'	75° 30'	2200	0.45	S1	Detritus
MT 4	41° 20'	75° 30'	2200	0.60	S1	Detritus
MT 5	41° 20'	75° 30'	2200	0.75	S1	Detritus
MT 6	41° 20'	75° 30'	2200	0.90	S1	Detritus
MT 7	41° 20'	75° 30'	2200	1.05	S1	Detritus
MT 8	41° 20'	75° 30'	2200	1.20	S1	Detritus
MT 9	41° 20'	75° 30'	2200	1.35	S1	Detritus
MT 10	41° 20'	75° 30'	2200	1.50	S1	Detritus
MT 11	41° 20'	75° 30'	2200	1.65	S1	Detritus
MT 12	41° 20'	75° 30'	2200	1.80	S1	Detritus
MT 13	41° 20'	75° 30'	2200	1.95	S1	Detritus
MT 14	41° 20'	75° 30'	2200	2.10	S1	Detritus
MT 15	41° 20'	75° 30'	2200	2.25	S1	Detritus
MT 16	41° 20'	75° 30'	2200	2.40	S1	Detritus
MT 17	41° 20'	75° 30'	2200	2.55	S1	Detritus
MT 18	41° 20'	75° 30'	2200	2.70	S1	Detritus
MT 19	41° 20'	75° 30'	2200	2.85	S1	Detritus
MT 20	41° 20'	75° 30'	2200	3.00	S1	Detritus

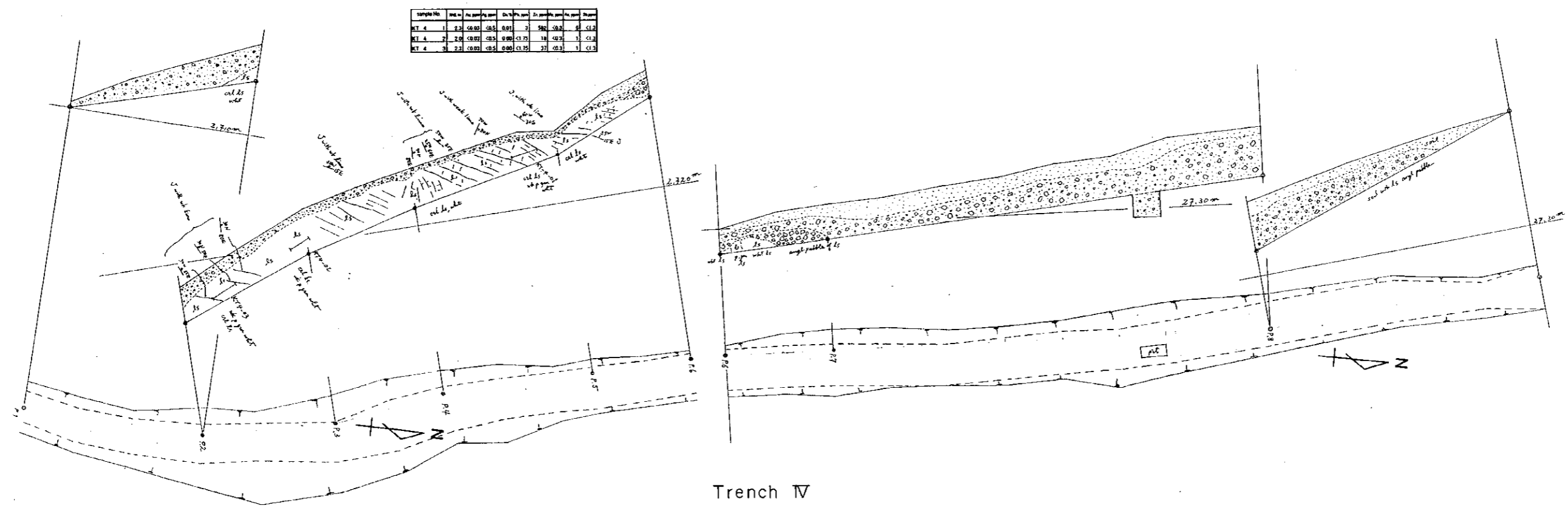
Sample No.	Lat. N	Long. E	Altitude	Depth	Stratigraphic Unit	Remarks
MT 21	41° 20'	75° 30'	2200	0.15	S1	Detritus
MT 22	41° 20'	75° 30'	2200	0.30	S1	Detritus
MT 23	41° 20'	75° 30'	2200	0.45	S1	Detritus
MT 24	41° 20'	75° 30'	2200	0.60	S1	Detritus
MT 25	41° 20'	75° 30'	2200	0.75	S1	Detritus
MT 26	41° 20'	75° 30'	2200	0.90	S1	Detritus
MT 27	41° 20'	75° 30'	2200	1.05	S1	Detritus
MT 28	41° 20'	75° 30'	2200	1.20	S1	Detritus
MT 29	41° 20'	75° 30'	2200	1.35	S1	Detritus
MT 30	41° 20'	75° 30'	2200	1.50	S1	Detritus
MT 31	41° 20'	75° 30'	2200	1.65	S1	Detritus
MT 32	41° 20'	75° 30'	2200	1.80	S1	Detritus
MT 33	41° 20'	75° 30'	2200	1.95	S1	Detritus
MT 34	41° 20'	75° 30'	2200	2.10	S1	Detritus
MT 35	41° 20'	75° 30'	2200	2.25	S1	Detritus
MT 36	41° 20'	75° 30'	2200	2.40	S1	Detritus
MT 37	41° 20'	75° 30'	2200	2.55	S1	Detritus
MT 38	41° 20'	75° 30'	2200	2.70	S1	Detritus
MT 39	41° 20'	75° 30'	2200	2.85	S1	Detritus
MT 40	41° 20'	75° 30'	2200	3.00	S1	Detritus





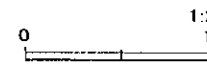
Sample No.	wt. %	Fe	Ca	Mg	Si	Al	SiO <sub>2</sub>	CaO	MgO	SiO <sub>2</sub>	CaO	MgO	SiO <sub>2</sub>	CaO	MgO	SiO <sub>2</sub>	CaO	MgO	
KT 3	1	1.4	0.03	0.01	0.01	2	121	0.2	2	112	0.2	2	112	0.2	2	112	0.2	2	112
KT 3	2	1.4	0.10	1.1	0.06	5	184	0.2	36	112	0.2	36	112	0.2	36	112	0.2	36	112
KT 3	3	1.5	0.17	0.6	0.04	4	131	0.2	27	112	0.2	27	112	0.2	27	112	0.2	27	112
KT 3	4	1.7	0.02	0.01	0.01	1	120	0.2	12	112	0.2	12	112	0.2	12	112	0.2	12	112
KT 3	5	2.3	0.03	0.01	0.01	7	152	0.2	20	112	0.2	20	112	0.2	20	112	0.2	20	112
KT 3	6	1.7	0.02	0.01	0.01	8	174	0.2	15	112	0.2	15	112	0.2	15	112	0.2	15	112
KT 3	7	2.1	0.03	0.01	0.01	15	178	0.2	29	112	0.2	29	112	0.2	29	112	0.2	29	112
KT 3	8	1.4	0.02	0.01	0.01	10	188	0.2	11	112	0.2	11	112	0.2	11	112	0.2	11	112
KT 3	9	2.0	0.02	0.01	0.01	17	175	0.2	13	112	0.2	13	112	0.2	13	112	0.2	13	112
KT 3	10	1.0	0.02	0.01	0.01	5	182	0.2	22	112	0.2	22	112	0.2	22	112	0.2	22	112
KT 3	11	2.1	0.14	0.01	0.01	23	217	0.2	21	112	0.2	21	112	0.2	21	112	0.2	21	112
KT 3	12	1.8	0.11	0.01	0.01	26	221	0.2	16	112	0.2	16	112	0.2	16	112	0.2	16	112
KT 3	13	2.0	0.02	0.01	0.01	4	92	0.2	6	112	0.2	6	112	0.2	6	112	0.2	6	112
KT 3	14	2.1	0.03	0.01	0.01	17	84	0.2	5	112	0.2	5	112	0.2	5	112	0.2	5	112
KT 3	15	1.8	0.02	0.01	0.01	10	78	0.2	4	112	0.2	4	112	0.2	4	112	0.2	4	112
KT 3	16	2.0	0.03	0.01	0.01	21	47	0.2	7	112	0.2	7	112	0.2	7	112	0.2	7	112
KT 3	17	2.0	0.04	0.01	0.01	9	41	0.2	21	112	0.2	21	112	0.2	21	112	0.2	21	112

Trench III



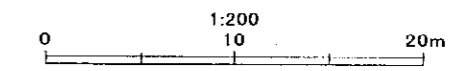
Sample No.	wt. %	Fe	Ca	Mg	Si	Al	SiO <sub>2</sub>	CaO	MgO	SiO <sub>2</sub>	CaO	MgO	SiO <sub>2</sub>	CaO	MgO	SiO <sub>2</sub>	CaO	MgO	
KT 4	1	2.2	0.03	0.01	0.01	3	582	0.2	6	112	0.2	6	112	0.2	6	112	0.2	6	112
KT 4	2	2.0	0.02	0.01	0.01	14	422	0.2	3	112	0.2	3	112	0.2	3	112	0.2	3	112
KT 4	3	2.3	0.03	0.01	0.01	27	402	0.2	1	112	0.2	1	112	0.2	1	112	0.2	1	112

Trench IV



- LEGE
- Detritus
  - ls Limestone
  - x Granodiorite porphyry
  - || Skarn
  - ∕ Joint Fracture
  - ∕ Sheared zone

Trench III



Sample No.	SiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	FeO	CaO	MgO	Sum	Range
KT 4	1.22	0.00	0.93	0.01	7.17	9.33	1-11.2
KT 4	1.20	0.00	0.93	0.00	11.18	13.11	2-11.2
KT 4	1.22	0.00	0.93	0.00	11.18	13.11	3-11.2

Trench IV

**LEGEND**

- Detritus
- Limestone
- Granodiorite porphyry
- Skarn
- Joint, Fracture
- Sheared zone
- Ore impregnation
- Locality and number of channel samples

