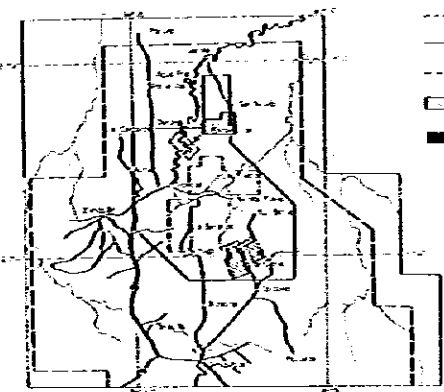


GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE IV

GEOLOGICAL MAP OF THE SAN CLEMENTE AREA

Scale 1 : 1,000



- PHASE I
--- PHASE II
--- PHASE III
[] PHASE IV
[] PHASE V

JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1983

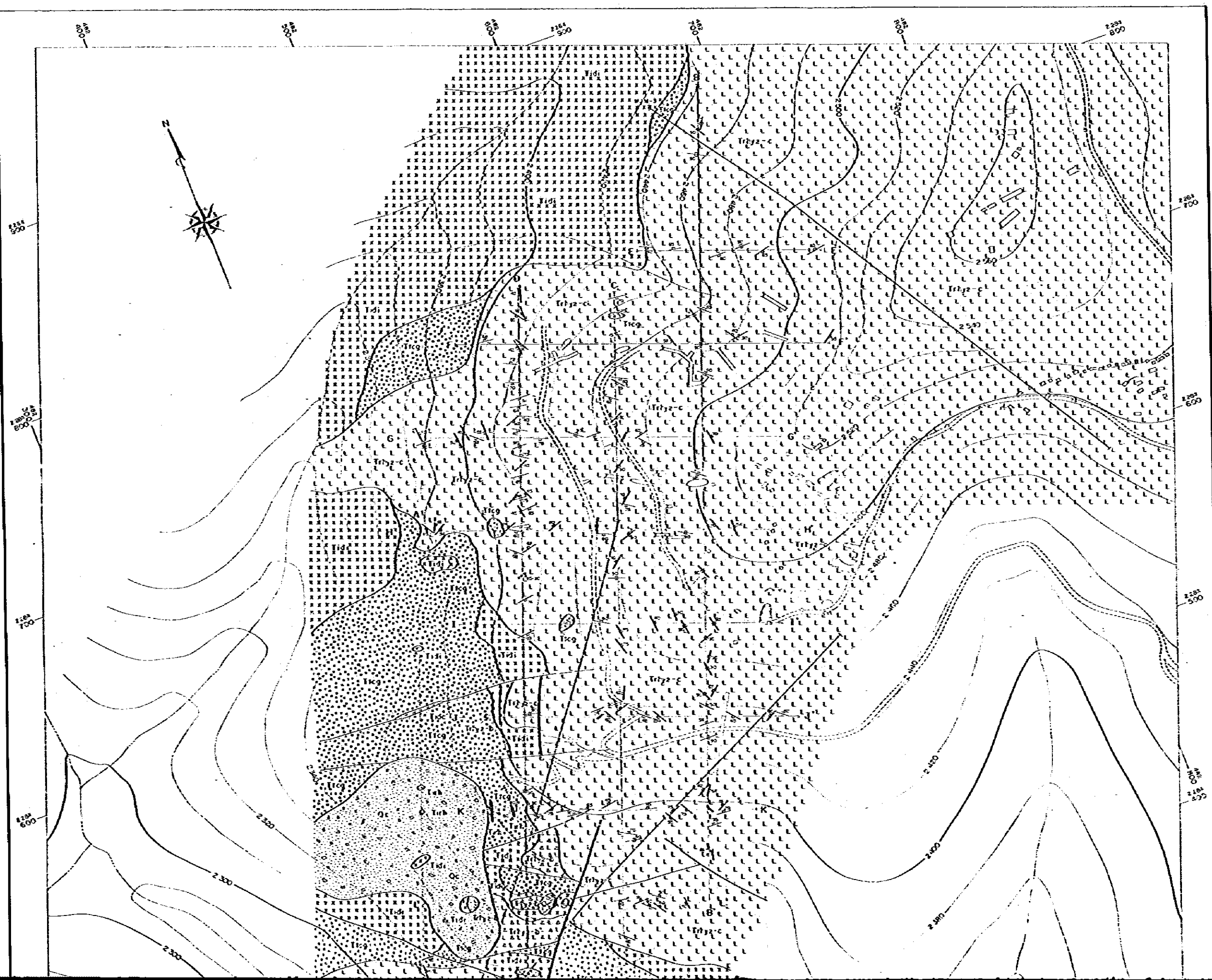
LEGEND

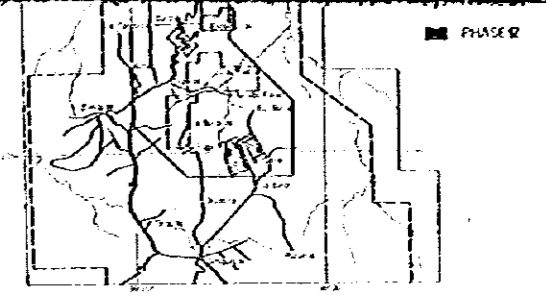
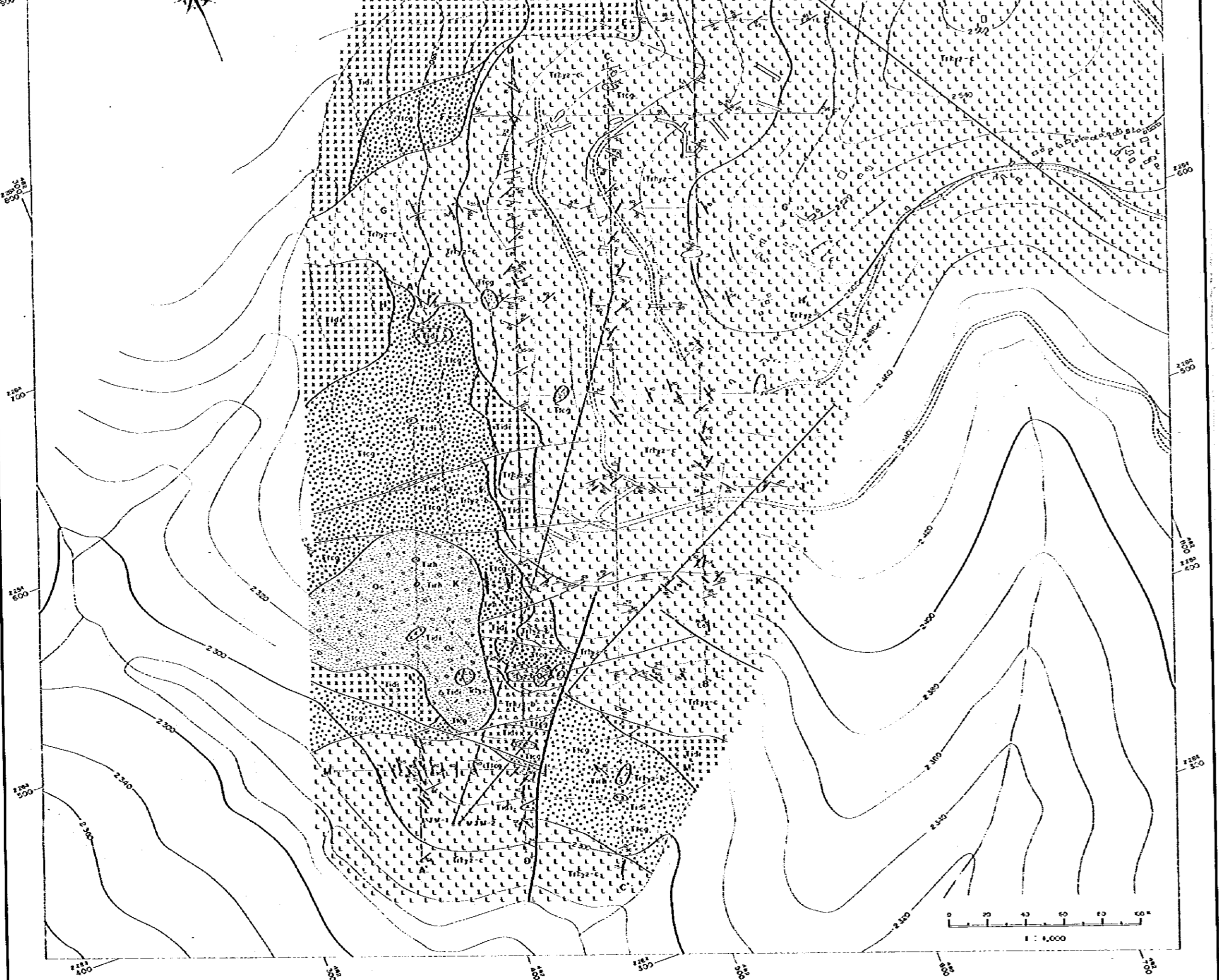
- (Qc) Coliche
(Ttrj2-c) Compact rhyolite
(Ttrj2-b) Brecciated rhyolite
(Ttrjg) Tuffaceous conglomerate

Intrusive rocks

- (Tidc) Dacite
(Ttrh) Rhyolite
(Ttzi) Altered dacite

- Strike and dip of strata
Strike and dip of joint
Fault
Tunnel
Open pit
Trench
Diamond drilling
Line of trench





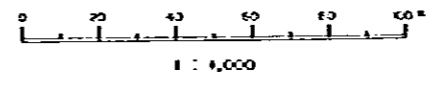
JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

LEGEND

- (Ttca) Coliche
- (Ttbyz-c) Compact rhyolite
- (Ttbyz-b) Brecciated rhyolite
- (Ttfcg) Tuffaceous conglomerate

- Intrusive rocks**
- (Tidc) Dacite
- (Tidh) Rhyolite
- (Tidi) Altered diorite

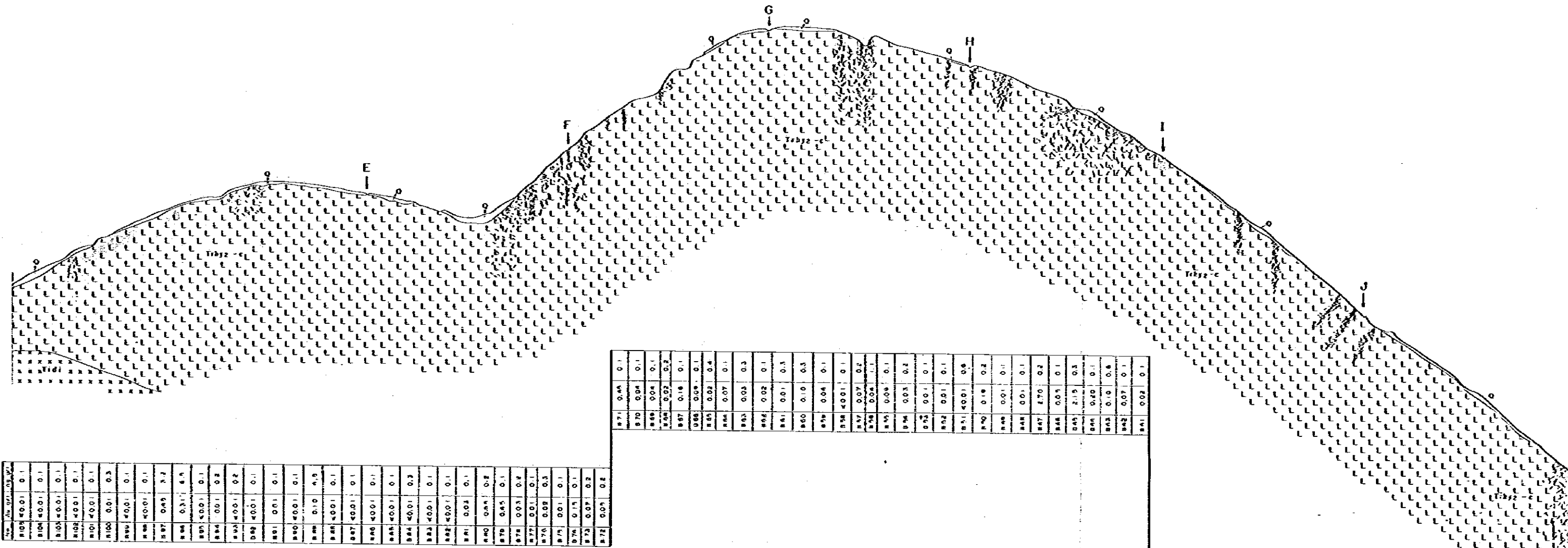
- Strike and dip of strata
- Strike and dip of joint
- Fault
- Tunnel
- Open pit
- Trench
- Diamond drilling
- Line of trench



B



B - B' Section



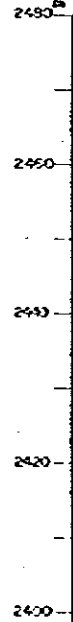
No.	Av. Gr. (ft. or ft. W.)
B103	40.01 0.1
B104	40.01 0.1
B105	40.01 0.1
B106	40.01 0.1
B107	40.01 0.1
B108	40.01 0.1
B109	40.01 0.1
B110	40.01 0.1
B111	40.01 0.1
B112	40.01 0.1
B113	40.01 0.1
B114	40.01 0.1
B115	40.01 0.1
B116	40.01 0.1
B117	40.01 0.1
B118	40.01 0.1
B119	40.01 0.1
B120	40.01 0.1
B121	40.01 0.1
B122	40.01 0.1
B123	40.01 0.1
B124	40.01 0.1
B125	40.01 0.1
B126	40.01 0.1
B127	40.01 0.1
B128	40.01 0.1
B129	40.01 0.1
B130	40.01 0.1
B131	40.01 0.1
B132	40.01 0.1
B133	40.01 0.1
B134	40.01 0.1
B135	40.01 0.1
B136	40.01 0.1
B137	40.01 0.1
B138	40.01 0.1
B139	40.01 0.1
B140	40.01 0.1
B141	40.01 0.1
B142	40.01 0.1
B143	40.01 0.1
B144	40.01 0.1
B145	40.01 0.1
B146	40.01 0.1
B147	40.01 0.1
B148	40.01 0.1
B149	40.01 0.1
B150	40.01 0.1
B151	40.01 0.1
B152	40.01 0.1
B153	40.01 0.1
B154	40.01 0.1
B155	40.01 0.1
B156	40.01 0.1
B157	40.01 0.1
B158	40.01 0.1
B159	40.01 0.1
B160	40.01 0.1
B161	40.01 0.1
B162	40.01 0.1
B163	40.01 0.1
B164	40.01 0.1
B165	40.01 0.1
B166	40.01 0.1
B167	40.01 0.1
B168	40.01 0.1
B169	40.01 0.1
B170	40.01 0.1
B171	40.01 0.1
B172	40.01 0.1
B173	40.01 0.1
B174	40.01 0.1
B175	40.01 0.1
B176	40.01 0.1
B177	40.01 0.1
B178	40.01 0.1
B179	40.01 0.1
B180	40.01 0.1
B181	40.01 0.1
B182	40.01 0.1
B183	40.01 0.1
B184	40.01 0.1
B185	40.01 0.1
B186	40.01 0.1
B187	40.01 0.1
B188	40.01 0.1
B189	40.01 0.1
B190	40.01 0.1
B191	40.01 0.1
B192	40.01 0.1
B193	40.01 0.1
B194	40.01 0.1
B195	40.01 0.1
B196	40.01 0.1
B197	40.01 0.1
B198	40.01 0.1
B199	40.01 0.1
B200	40.01 0.1

B71	0.45	0.1
B70	0.04	0.1
B69	0.04	0.1
B68	0.02	0.2
B67	0.16	0.1
B66	0.08	0.1
B65	0.02	0.4
B64	0.07	0.1
B63	0.02	0.3
B62	0.02	0.1
B61	0.01	0.3
B60	0.10	0.3
B59	0.04	0.1
B58	4.00	0.1
B57	0.07	0.2
B56	0.04	1.1
B55	0.04	0.1
B54	0.03	0.2
B53	0.01	0.1
B52	0.01	0.1
B51	4.00	0.6
B50	0.18	0.2
B49	0.01	0.1
B48	0.01	0.1
B47	1.70	0.2
B46	0.01	0.1
B45	2.15	0.3
B44	0.10	0.1
B43	0.10	0.6
B42	0.07	0.1
B41	0.02	0.1

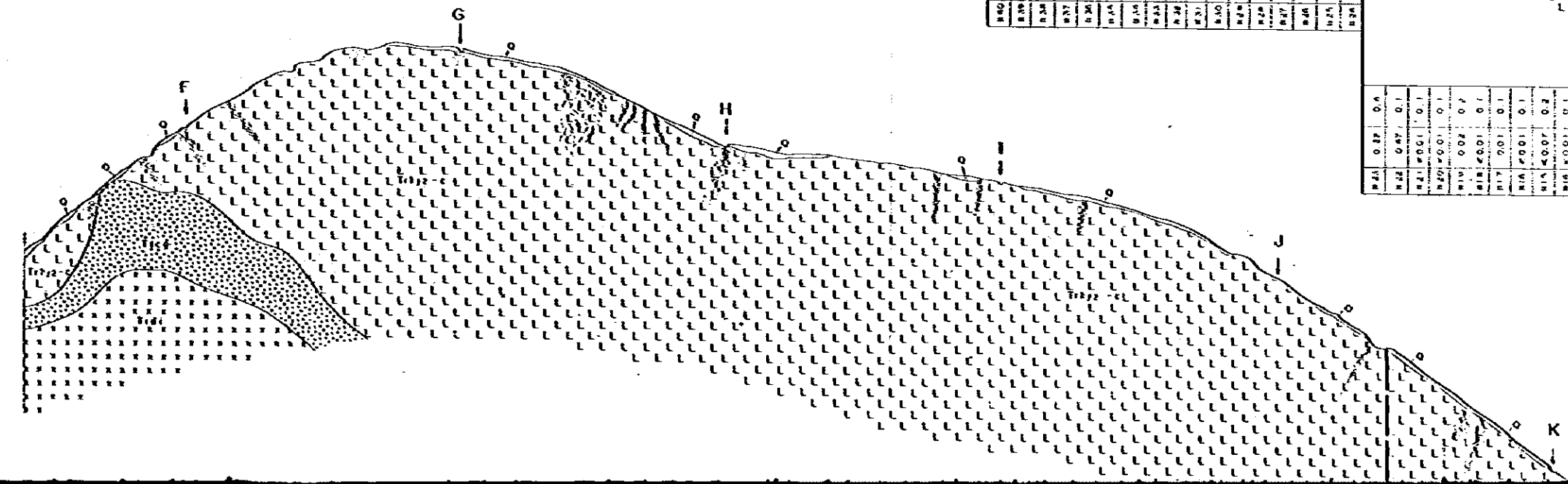
B40	0.10	0.1
B39	0.04	0.1
B38	0.02	0.6
B37	0.02	0.1
B36	0.01	0.1
B35	4.00	0.5
B34	4.00	0.7
B33	0.01	0.2
B32	0.01	1.0
B31	4.00	0.1
B30	4.00	0.2
B29	4.00	0.2
B28	0.02	1.6
B27	4.00	0.1
B26	0.10	0.3
B25	4.00	0.1
B24	0.04	0.1

B23	0.12	0.4
B22	0.07	0.1
B21	4.00	0.1
B20	4.00	0.1
B19	0.02	0.7
B18	0.01	0.1
B17	0.01	0.1
B16	4.00	0.1
B15	4.00	0.2
B14	4.00	0.2

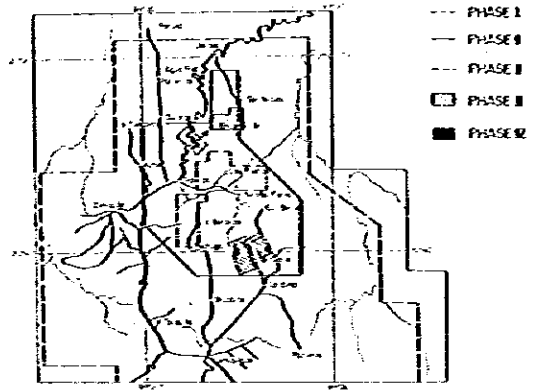
C



C - C' Section

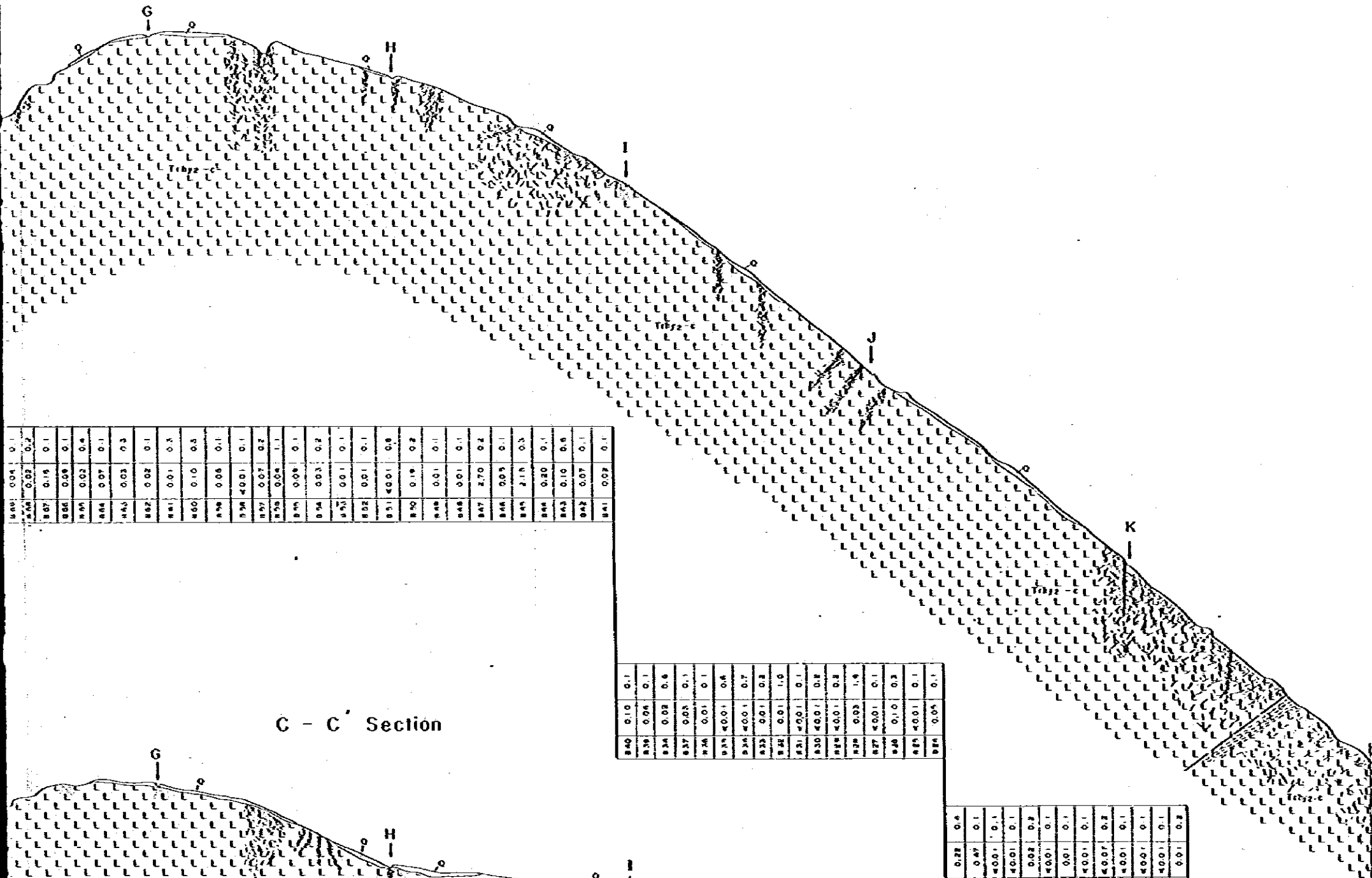


GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II
GEOLOGICAL PROFILES
AND ASSAY RESULTS OF
GEOCHEMICAL ROCK SAMPLES
OF THE SAN CLEMENTE AREA
(B-B', C-C')
Scale 1 : 500

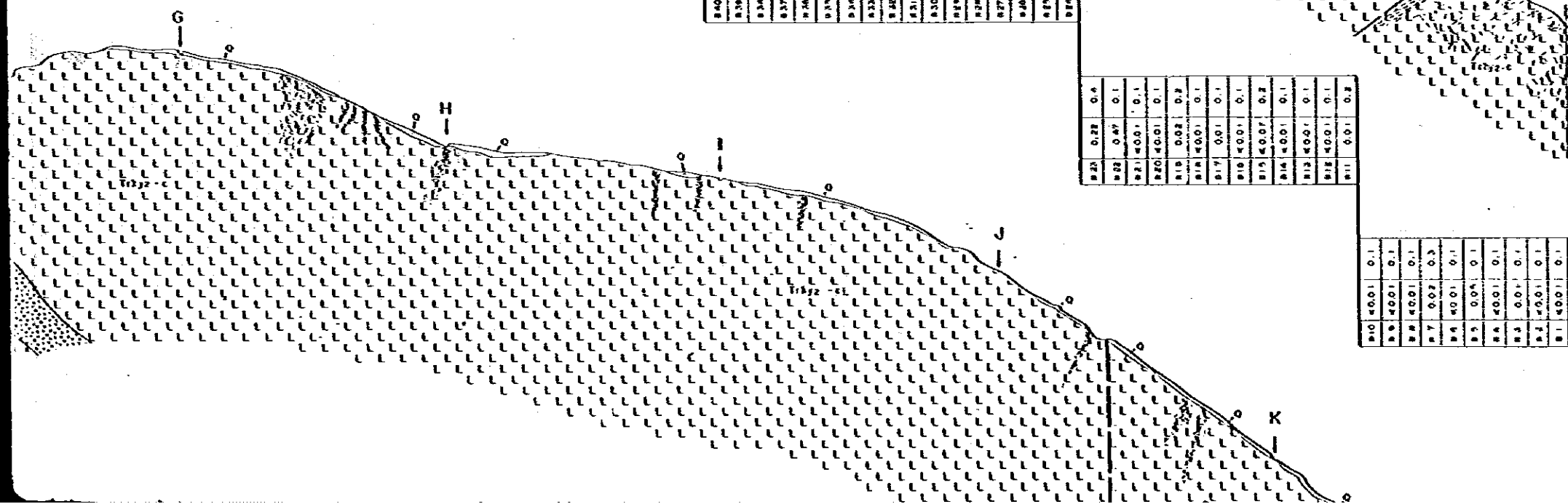


JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

B - B' Section



C - C' Section



889	0.04	0.1
888	0.02	0.2
887	0.15	0.1
886	0.08	0.1
885	0.02	0.4
884	0.07	0.1
883	0.03	0.3
882	0.02	0.1
881	0.01	0.3
880	0.10	0.5
879	0.05	0.1
878	4.00	0.1
877	0.07	0.2
876	0.04	1.1
875	0.09	0.1
874	0.03	0.2
873	0.01	0.1
872	0.01	0.1
871	4.00	0.8
870	0.15	0.2
869	0.01	0.1
868	0.01	0.1
867	2.70	0.2
866	0.05	0.1
865	2.15	0.3
864	0.20	0.1
863	0.10	0.5
862	0.07	0.1
861	0.02	0.1

840	0.10	0.1
839	0.05	0.1
838	0.02	0.6
837	0.03	0.1
836	0.01	0.1
835	4.00	0.6
834	4.00	0.7
833	0.01	0.2
832	0.01	1.0
831	4.00	0.1
830	4.00	0.2
829	4.00	0.2
828	0.02	1.5
827	4.00	0.1
826	0.10	0.3
825	4.00	0.1
824	0.05	0.1

823	0.22	0.4
822	0.87	0.1
821	4.00	0.1
820	4.00	0.1
819	0.02	0.2
818	4.00	0.1
817	0.01	0.1
816	4.00	0.1
815	4.00	0.2
814	4.00	0.1
813	4.00	0.1
812	4.00	0.1
811	0.01	0.2

810	4.00	0.1
809	4.00	0.1
808	4.00	0.1
807	0.02	0.3
806	4.00	0.1
805	0.04	0.1
804	4.00	0.1
803	0.01	0.1
802	4.00	0.1
801	4.00	0.1
800	4.00	0.1

LEGEND

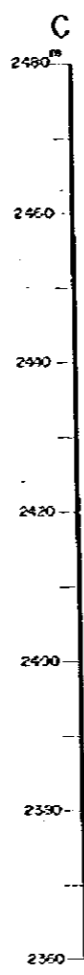
- (Diagonal lines) (D) Detritus
- (Cross-hatched) (C) Coliche
- (L L L) (Trhy-c) Compact rhyolite
- (L L L L L) (Trhy-b) Brecciated rhyolite
- (Dotted) (Tcg) Tuffaceous conglomerate

Intrusive rocks

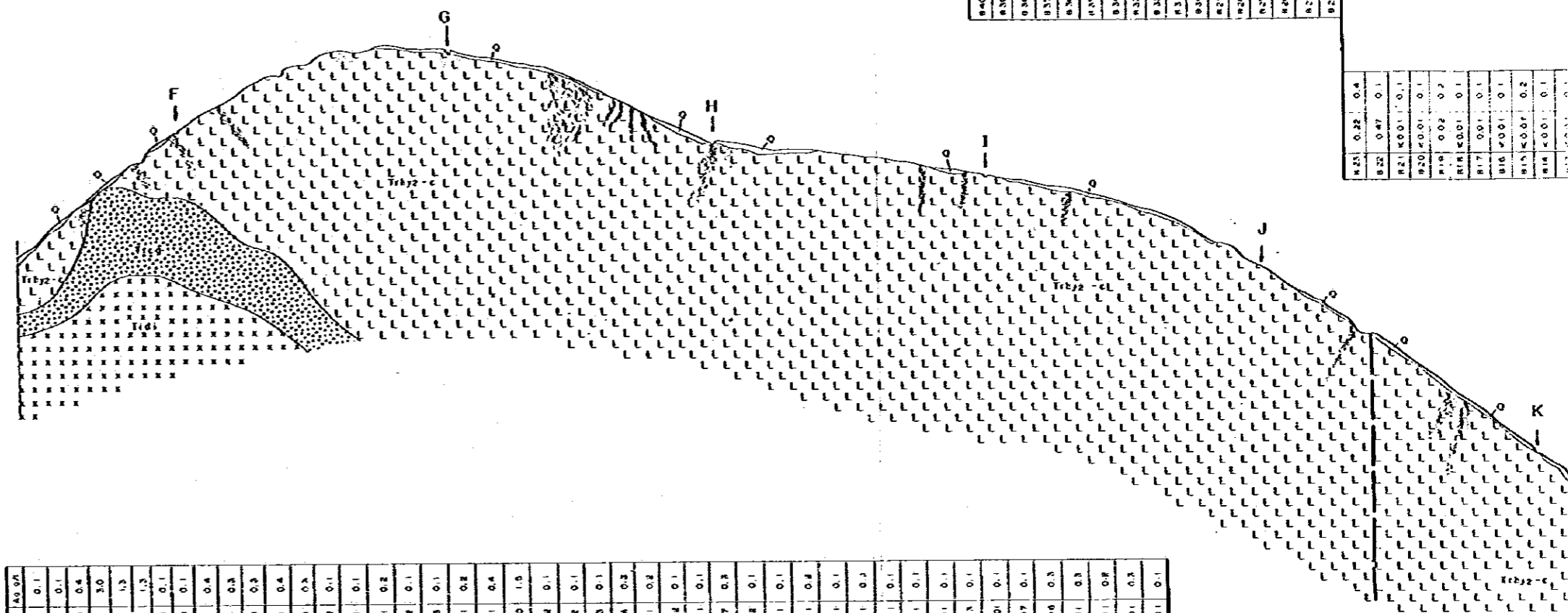
- (Diagonal lines) (Tid) Diabase
- (Cross-hatched) (Tir) Rhyolite
- (Dotted) (Tidit) Altered diorite

- (Line) Fault
- (Line) Quartz vein and quartz vein network
- (Dotted) Iron oxide zone along joints and fractures
- (Dotted) Disseminated zone of black shale mineral
- (Dotted) Argillaceous zone

No.	Alt.	Sp.	Gr.
805	<0.01		
806	<0.01		
807	<0.01		
808	<0.01		
809	<0.01		
810	<0.01		
811	<0.01		
812	<0.01		
813	<0.01		
814	<0.01		
815	<0.01		
816	<0.01		
817	<0.01		
818	<0.01		
819	<0.01		
820	<0.01		
821	<0.01		
822	<0.01		
823	<0.01		
824	<0.01		
825	<0.01		
826	<0.01		
827	<0.01		
828	<0.01		
829	<0.01		
830	<0.01		
831	<0.01		
832	<0.01		
833	<0.01		
834	<0.01		
835	<0.01		
836	<0.01		
837	<0.01		
838	<0.01		
839	<0.01		
840	<0.01		
841	<0.01		
842	<0.01		
843	<0.01		
844	<0.01		
845	<0.01		
846	<0.01		
847	<0.01		
848	<0.01		
849	<0.01		
850	<0.01		
851	<0.01		
852	<0.01		
853	<0.01		
854	<0.01		
855	<0.01		
856	<0.01		
857	<0.01		
858	<0.01		
859	<0.01		
860	<0.01		
861	<0.01		
862	<0.01		
863	<0.01		
864	<0.01		
865	<0.01		
866	<0.01		
867	<0.01		
868	<0.01		
869	<0.01		
870	<0.01		
871	<0.01		
872	<0.01		



C - C' Section



No.	Alt.	Sp.	Gr.
C00	0.04	0.1	
C01	<0.01	0.1	
C02	0.06	0.4	
C03	0.01	3.0	
C04	0.01	1.3	
C05	0.01	1.3	
C06	<0.01	0.1	
C07	0.04	0.1	
C08	0.01	0.4	
C09	0.04	0.3	
C10	<0.01	0.3	
C11	<0.01	0.4	
C12	<0.01	0.3	
C13	0.02	0.1	
C14	0.03	0.1	
C15	<0.01	0.2	
C16	<0.01	0.4	
C17	7.90	1.9	
C18	0.02	0.1	
C19	7.02	0.1	
C20	0.03	0.1	
C21	0.03	0.1	
C22	0.04	0.2	
C23	0.04	0.2	
C24	0.04	0.2	
C25	0.04	0.2	
C26	0.04	0.2	
C27	0.04	0.2	
C28	0.04	0.2	
C29	0.04	0.2	
C30	0.04	0.2	
C31	0.04	0.2	
C32	0.04	0.2	
C33	0.04	0.2	
C34	0.04	0.2	
C35	0.04	0.2	
C36	0.04	0.2	
C37	0.04	0.2	
C38	0.04	0.2	
C39	0.04	0.2	
C40	0.04	0.2	
C41	0.04	0.2	
C42	0.04	0.2	
C43	0.04	0.2	
C44	0.04	0.2	
C45	0.04	0.2	
C46	0.04	0.2	
C47	0.04	0.2	
C48	0.04	0.2	
C49	0.04	0.2	
C50	0.04	0.2	
C51	0.04	0.2	
C52	0.04	0.2	
C53	0.04	0.2	
C54	0.04	0.2	
C55	0.04	0.2	
C56	0.04	0.2	
C57	0.04	0.2	
C58	0.04	0.2	
C59	0.04	0.2	
C60	0.04	0.2	
C61	0.04	0.2	
C62	0.04	0.2	
C63	0.04	0.2	
C64	0.04	0.2	
C65	0.04	0.2	
C66	0.04	0.2	
C67	0.04	0.2	
C68	0.04	0.2	
C69	0.04	0.2	
C70	0.04	0.2	
C71	0.04	0.2	
C72	0.04	0.2	
C73	0.04	0.2	
C74	0.04	0.2	
C75	0.04	0.2	
C76	0.04	0.2	
C77	0.04	0.2	
C78	0.04	0.2	
C79	0.04	0.2	
C80	0.04	0.2	
C81	0.04	0.2	
C82	0.04	0.2	
C83	0.04	0.2	
C84	0.04	0.2	
C85	0.04	0.2	
C86	0.04	0.2	
C87	0.04	0.2	
C88	0.04	0.2	
C89	0.04	0.2	
C90	0.04	0.2	
C91	0.04	0.2	
C92	0.04	0.2	
C93	0.04	0.2	
C94	0.04	0.2	
C95	0.04	0.2	
C96	0.04	0.2	
C97	0.04	0.2	
C98	0.04	0.2	
C99	0.04	0.2	
C00	0.04	0.2	

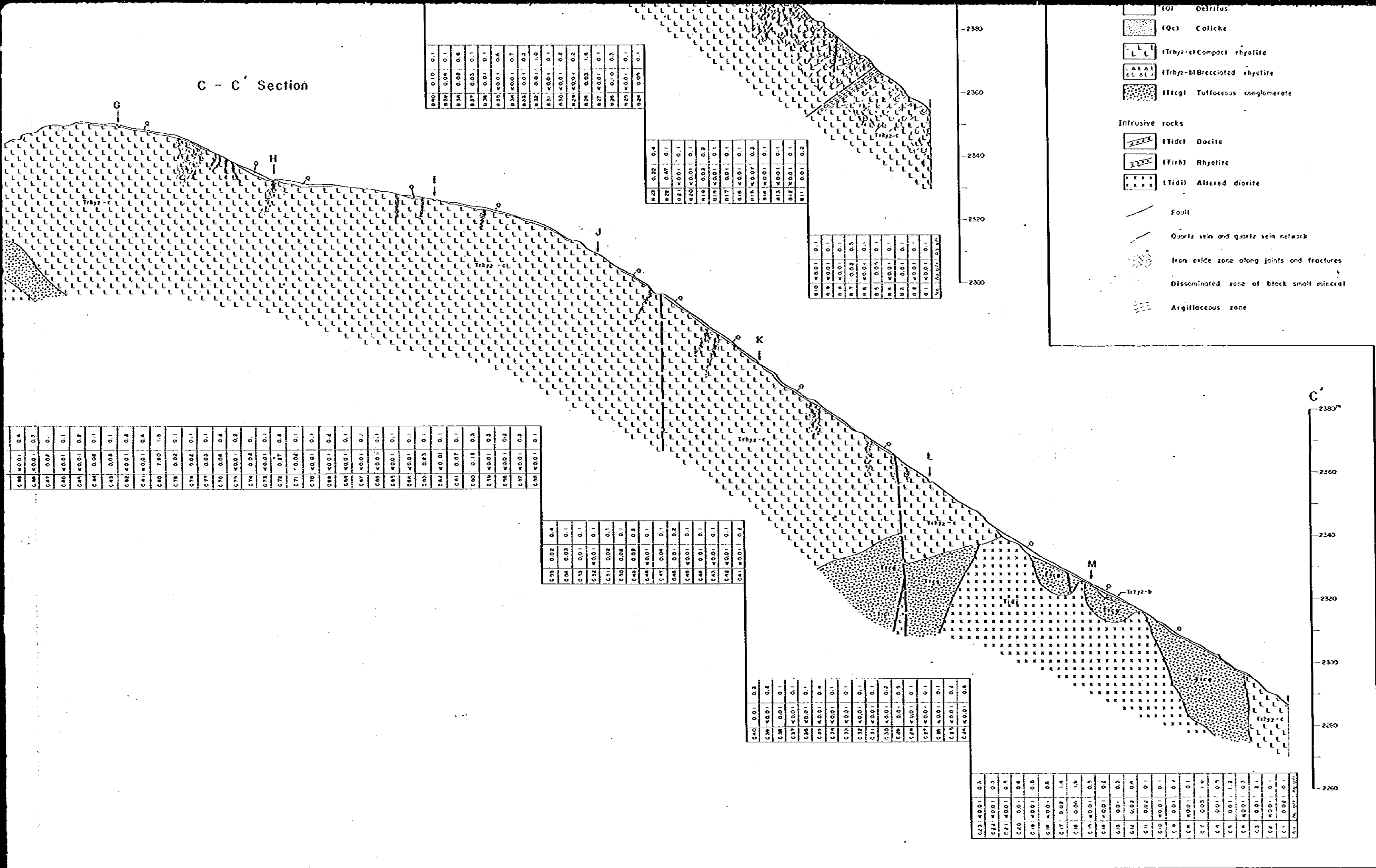
840	0.10	0.1
841	0.04	0.1
842	0.02	0.6
843	0.03	0.1
844	0.01	0.1
845	<0.01	0.6
846	<0.01	0.7
847	0.01	0.2
848	0.01	1.0
849	<0.01	0.1
850	<0.01	0.2
851	<0.01	0.2
852	0.03	1.6
853	<0.01	0.1
854	0.10	0.3
855	<0.01	0.1
856	0.05	0.1

857	0.22	0.4
858	0.47	0.1
859	<0.01	0.1
860	<0.01	0.1
861	0.02	0.2
862	<0.01	0.1
863	<0.01	0.1
864	<0.01	0.1
865	<0.01	0.1
866	<0.01	0.2
867	<0.01	0.1
868	<0.01	0.1
869	<0.01	0.1
870	<0.01	0.1

C31	0.07	0.4
C32	0.03	0.1
C33	0.01	0.1
C34	<0.01	0.1
C35	0.02	0.1
C36	0.02	0.1
C37	0.02	0.2
C38	<0.01	0.1
C39	0.06	0.1
C40	0.1	0.2
C41	<0.01	0.1
C42	0.01	0.1
C43	<0.01	0.1
C44	<0.01	0.1
C45	<0.01	0.1
C46	<0.01	0.1
C47	<0.01	0.1
C48	<0.01	0.1
C49	<0.01	0.1
C50	<0.01	0.2

C49	0.01	0.2
C50	<0.01	0.1

C - C' Section



- (O) Detritus
 - (Oc) Calciche
 - (Trhyz-c) Compact rhyolite
 - (Trhyz-b) Brecciated rhyolite
 - (Trcg) Tuffaceous conglomerate
- Intrusive rocks
- (D) Dacite
 - (R) Rhyolite
 - (Di) Altered diorite
- Fault
 - Quartz vein and quartz vein network
 - Iron oxide zone along joints and fractures
 - Disseminated zone of block small mineral
 - Argillaceous zone

2380
2360
2340
2320
2300

C'
2380
2360
2340
2320
2300
2280
2260

840	0.10	0.1
839	0.04	0.1
838	0.02	0.8
837	0.03	0.1
836	0.01	0.1
835	<0.01	0.8
834	<0.01	0.7
833	0.01	0.2
832	0.01	1.0
831	<0.01	0.1
830	<0.01	0.2
829	<0.01	0.2
828	0.03	1.8
827	<0.01	0.1
826	0.10	0.3
825	<0.01	0.1
824	0.04	0.1

823	0.22	0.4
822	0.47	0.1
821	<0.01	0.1
820	<0.01	0.1
819	0.02	0.2
818	<0.01	0.1
817	0.01	0.1
816	<0.01	0.1
815	<0.01	0.2
814	<0.01	0.1
813	<0.01	0.1
812	<0.01	0.1
811	0.01	0.2

810	<0.01	0.1
89	<0.01	0.1
88	<0.01	0.1
87	0.02	0.3
86	<0.01	0.1
85	0.03	0.1
84	<0.01	0.1
83	0.01	0.1
82	<0.01	0.1
81	<0.01	0.1

C89	<0.01	0.4
C88	<0.01	0.3
C87	0.02	0.1
C86	<0.01	0.1
C85	<0.01	0.2
C84	0.02	0.1
C83	0.03	0.1
C82	<0.01	0.2
C81	<0.01	0.4
C80	7.90	1.5
C79	0.02	0.1
C78	0.04	0.1
C77	0.03	0.1
C76	0.04	0.3
C75	<0.01	0.2
C74	0.02	0.1
C73	<0.01	0.1
C72	0.07	0.1
C71	0.02	0.1
C70	<0.01	0.1
C69	<0.01	0.4
C68	<0.01	0.1
C67	<0.01	0.1
C66	<0.01	0.1
C65	<0.01	0.1
C64	0.83	0.1
C63	<0.01	0.1
C62	<0.01	0.1
C61	0.07	0.1
C60	0.16	0.3
C59	<0.01	0.3
C58	<0.01	0.2
C57	<0.01	0.3
C56	<0.01	0.1

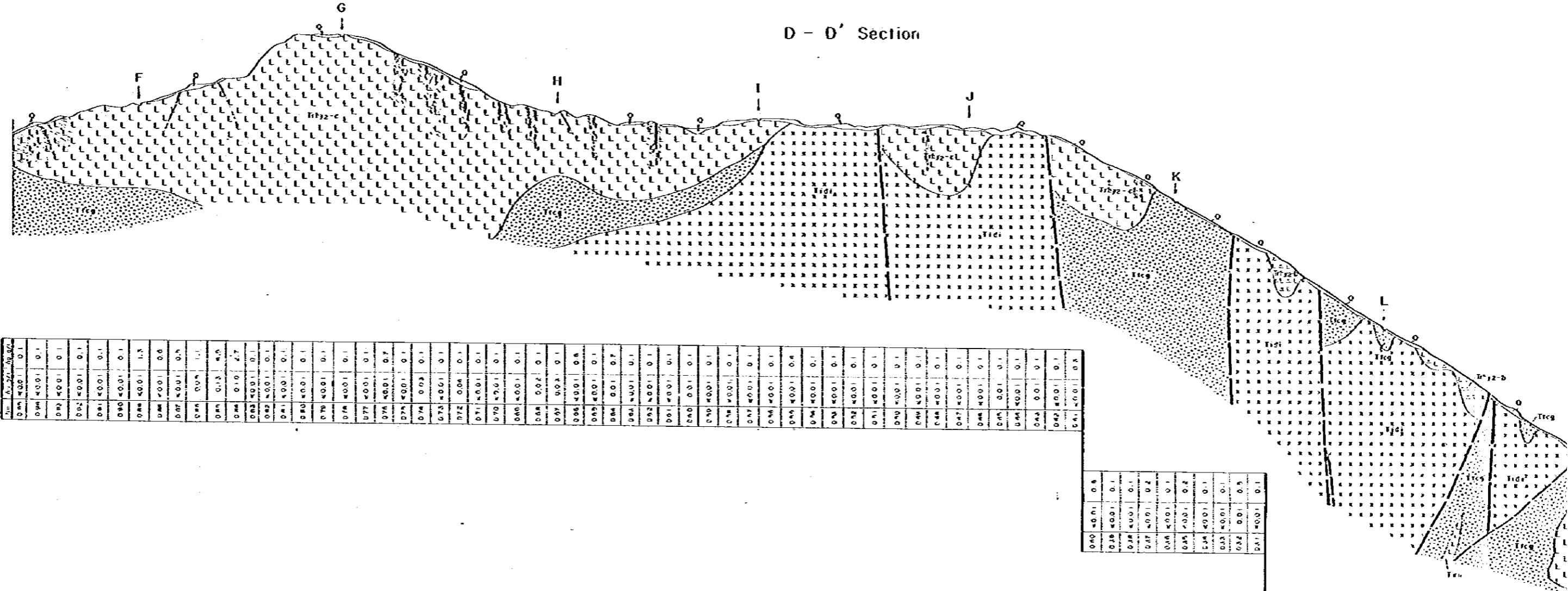
C55	0.02	0.4
C54	0.03	0.1
C53	0.01	0.1
C52	<0.01	0.1
C51	0.02	0.1
C50	0.02	0.1
C49	0.02	0.2
C48	<0.01	0.1
C47	0.04	0.1
C46	0.01	0.2
C45	<0.01	0.1
C44	0.01	0.1
C43	<0.01	0.1
C42	<0.01	0.1
C41	<0.01	0.1

C40	0.01	0.2
C39	<0.01	0.2
C38	0.01	0.1
C37	<0.01	0.1
C36	<0.01	0.1
C35	<0.01	0.4
C34	<0.01	0.1
C33	<0.01	0.1
C32	<0.01	0.1
C31	<0.01	0.1
C30	<0.01	0.2
C29	0.01	0.5
C28	<0.01	0.1
C27	<0.01	0.1
C26	<0.01	0.1
C25	<0.01	0.2
C24	<0.01	0.8

C23	<0.01	0.3
C22	<0.01	0.3
C21	<0.01	0.3
C20	0.01	0.8
C19	<0.01	0.5
C18	<0.01	0.8
C17	0.02	1.4
C16	0.04	1.9
C15	<0.01	0.5
C14	<0.01	0.2
C13	0.01	0.3
C12	0.02	0.4
C11	0.02	0.1
C10	<0.01	0.1
C9	0.01	0.4
C8	<0.01	0.1
C7	0.03	1.9
C6	0.01	0.5
C5	0.01	1.2
C4	<0.01	0.3
C3	0.01	2.1
C2	<0.01	0.1
C1	0.02	0.1

D
2440
2420
2400
2380
2360

D - D' Section



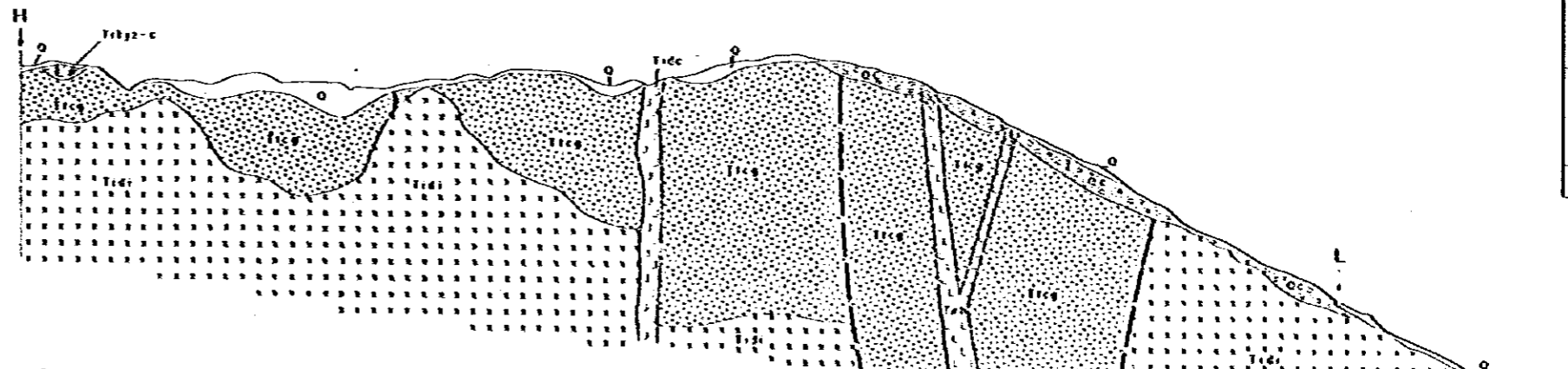
0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

A
2380
2360
2340

A - A' Section

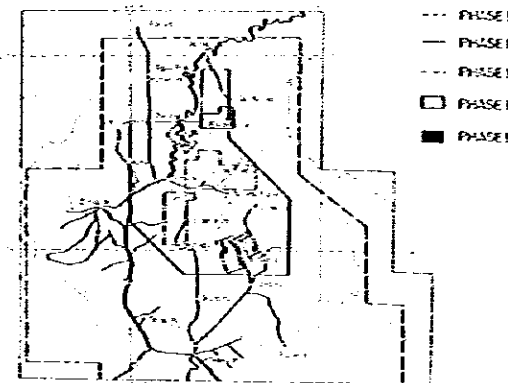


0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1.00
------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------

GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE II

GEOLOGICAL PROFILES AND ASSAY RESULTS OF GEOCHEMICAL ROCK SAMPLES OF THE SAN CLEMENTE AREA (A-A', D-D')

Scale 1:500



JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1983

LEGEND

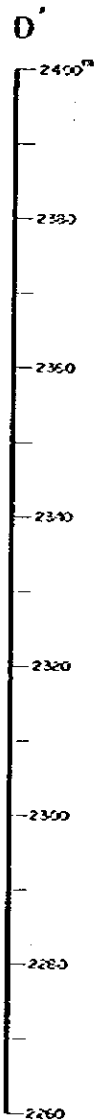
- [Symbol] (O) Detritus
- [Symbol] (OC) Coliche
- [Symbol] (Trhz-d) Compact rhyolite
- [Symbol] (Trhz-B) Brecciated rhyolite
- [Symbol] (Trcg) Tuffaceous conglomerate

Intrusive rocks

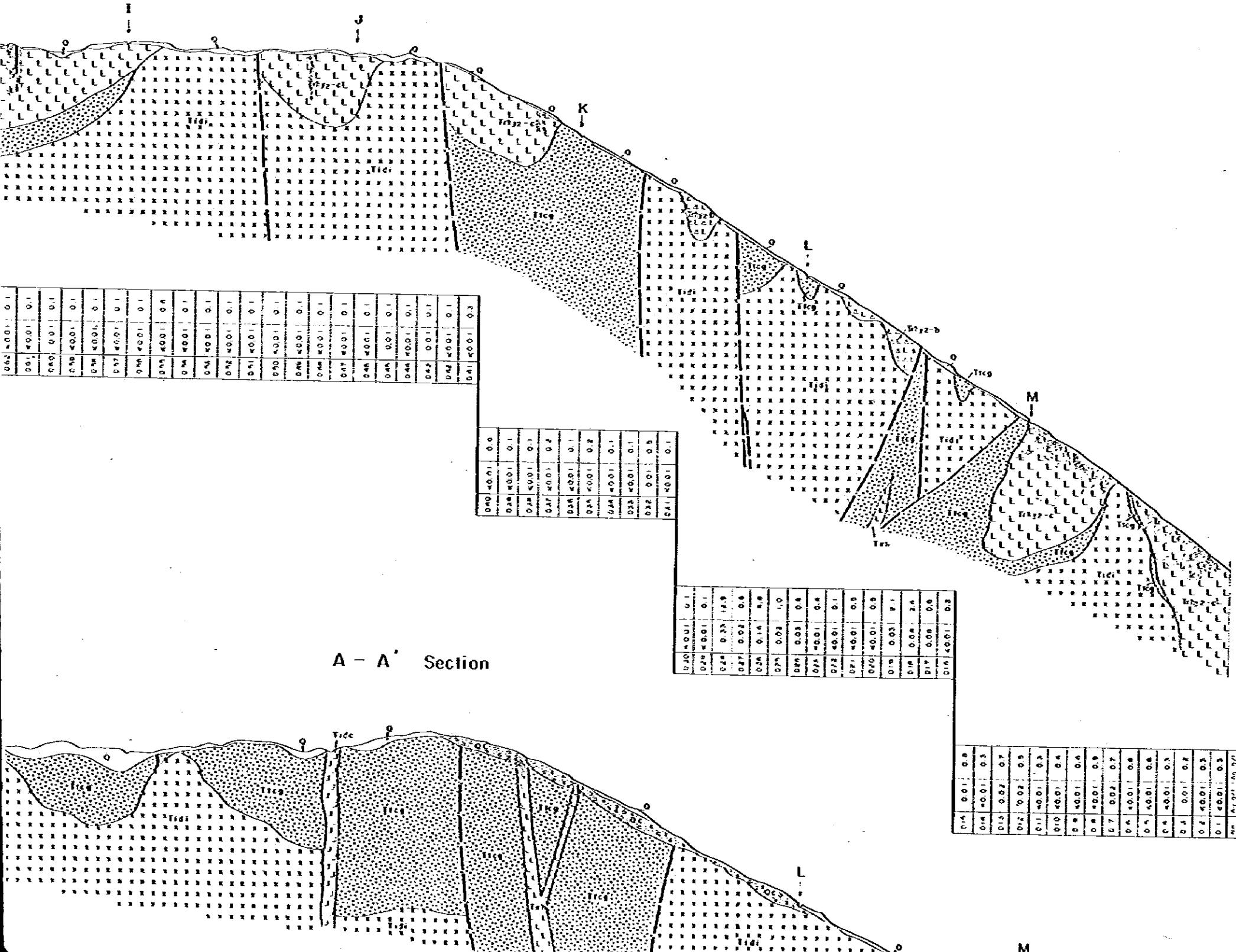
- [Symbol] (Tidc) Dacite
- [Symbol] (Trh) Rhyolite
- [Symbol] (Tidi) Altered diorite

- [Symbol] Fault
- [Symbol] Quartz vein and quartz vein network
- [Symbol] Iron oxide zone along joints and fractures
- [Symbol] Disseminated zone of black smalt mineral
- [Symbol] Anhydrous zone

D - D' Section



A - A' Section



0.62	4.00	0.1
0.51	4.00	0.1
0.89	0.01	0.1
0.39	4.00	0.1
0.34	4.00	0.1
0.37	4.00	0.1
0.76	4.00	0.1
0.35	4.00	0.1
0.34	4.00	0.1
0.45	4.00	0.1
0.46	4.00	0.1
0.42	0.01	0.1
0.47	4.00	0.1
0.41	4.00	0.1
0.70	4.00	0.1
0.46	4.00	0.1
0.46	4.00	0.1
0.46	4.00	0.1
0.47	4.00	0.1
0.46	4.00	0.1
0.44	0.01	0.1
0.44	4.00	0.1
0.42	0.01	0.1
0.47	4.00	0.1
0.46	4.00	0.1
0.44	0.01	0.1
0.42	0.01	0.1
0.47	4.00	0.1
0.41	4.00	0.1
0.41	4.00	0.2

0.49	4.00	0.6
0.48	4.00	0.1
0.48	4.00	0.1
0.47	4.00	0.2
0.48	4.00	0.1
0.45	4.00	0.2
0.44	4.00	0.1
0.43	4.00	0.1
0.42	0.01	0.5
0.41	4.00	0.1

0.20	4.00	0.1
0.24	4.00	0.1
0.24	0.37	12.9
0.27	0.02	0.6
0.24	0.16	4.9
0.27	0.02	1.0
0.28	0.02	0.8
0.25	4.00	0.4
0.23	4.00	0.1
0.21	4.00	0.3
0.20	4.00	0.3
0.18	0.02	7.1
0.18	0.04	2.4
0.17	0.02	0.6
0.16	4.00	0.3

0.14	0.01	0.8
0.14	4.00	0.3
0.12	0.02	0.7
0.12	0.02	0.5
0.11	4.00	0.3
0.10	4.00	0.4
0.8	4.00	0.4
0.7	0.02	0.9
0.4	4.00	0.8
0.5	4.00	0.4
0.4	4.00	0.3
0.4	0.01	0.2
0.2	4.00	0.3
0.1	4.00	0.3

593	<0.01	0.1
594	<0.01	0.1
595	<0.01	0.1
596	<0.01	0.1
597	<0.01	0.1
598	<0.01	0.1
599	<0.01	0.1
600	<0.01	0.1
601	<0.01	0.1
602	<0.01	0.1
603	<0.01	0.1
604	<0.01	0.1
605	<0.01	0.1
606	<0.01	0.1
607	<0.01	0.1
608	<0.01	0.1
609	<0.01	0.1
610	<0.01	0.1
611	<0.01	0.1
612	<0.01	0.1
613	<0.01	0.1
614	<0.01	0.1
615	<0.01	0.1
616	<0.01	0.1
617	<0.01	0.1
618	<0.01	0.1
619	<0.01	0.1
620	<0.01	0.1
621	<0.01	0.1
622	<0.01	0.1
623	<0.01	0.1
624	<0.01	0.1
625	<0.01	0.1
626	<0.01	0.1
627	<0.01	0.1
628	<0.01	0.1
629	<0.01	0.1
630	<0.01	0.1
631	<0.01	0.1
632	<0.01	0.1
633	<0.01	0.1
634	<0.01	0.1
635	<0.01	0.1
636	<0.01	0.1
637	<0.01	0.1
638	<0.01	0.1
639	<0.01	0.1
640	<0.01	0.1
641	<0.01	0.1
642	<0.01	0.1
643	<0.01	0.1
644	<0.01	0.1
645	<0.01	0.1
646	<0.01	0.1
647	<0.01	0.1
648	<0.01	0.1
649	<0.01	0.1
650	<0.01	0.1
651	<0.01	0.1
652	<0.01	0.1
653	<0.01	0.1
654	<0.01	0.1
655	<0.01	0.1
656	<0.01	0.1
657	<0.01	0.1
658	<0.01	0.1
659	<0.01	0.1
660	<0.01	0.1
661	<0.01	0.1
662	<0.01	0.1
663	<0.01	0.1
664	<0.01	0.1
665	<0.01	0.1
666	<0.01	0.1
667	<0.01	0.1
668	<0.01	0.1
669	<0.01	0.1
670	<0.01	0.1
671	<0.01	0.1
672	<0.01	0.1
673	<0.01	0.1
674	<0.01	0.1
675	<0.01	0.1
676	<0.01	0.1
677	<0.01	0.1
678	<0.01	0.1
679	<0.01	0.1
680	<0.01	0.1
681	<0.01	0.1
682	<0.01	0.1
683	<0.01	0.1
684	<0.01	0.1
685	<0.01	0.1
686	<0.01	0.1
687	<0.01	0.1
688	<0.01	0.1
689	<0.01	0.1
690	<0.01	0.1
691	<0.01	0.1
692	<0.01	0.1
693	<0.01	0.1
694	<0.01	0.1
695	<0.01	0.1
696	<0.01	0.1
697	<0.01	0.1
698	<0.01	0.1
699	<0.01	0.1
700	<0.01	0.1

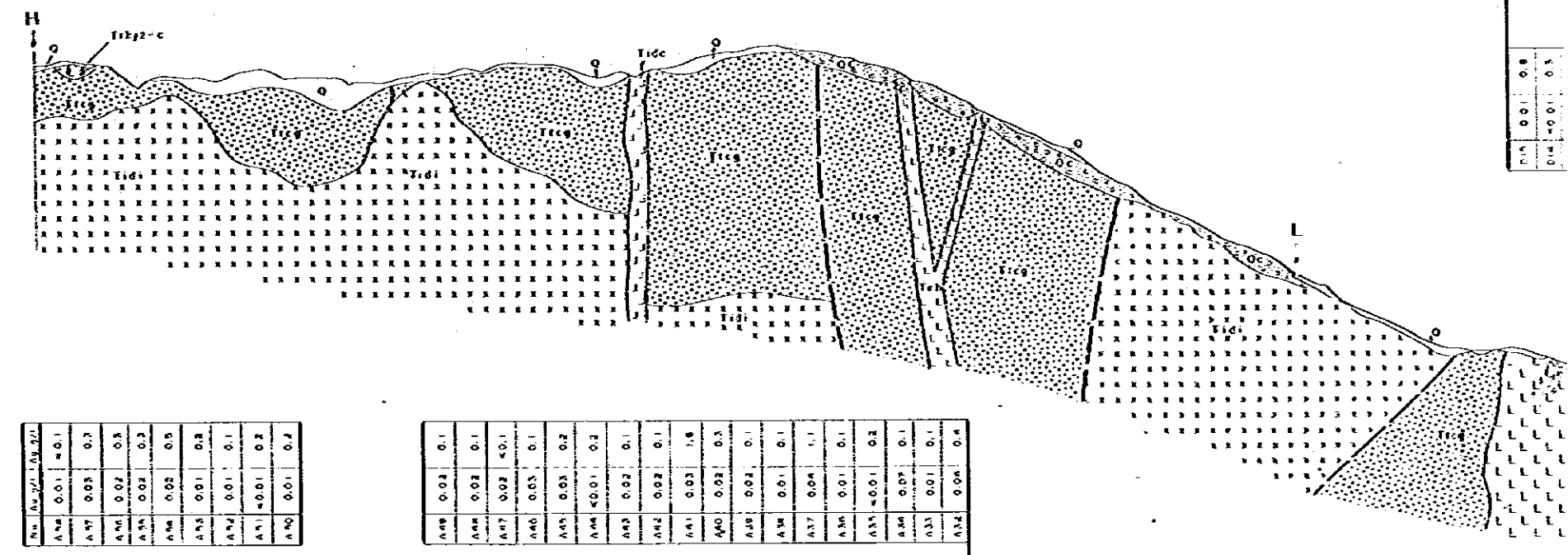
040	<0.01	0.6
039	<0.01	0.1
038	<0.01	0.1
037	<0.01	0.2
036	<0.01	0.1
035	<0.01	0.2
034	<0.01	0.1
033	<0.01	0.1
032	<0.01	0.5
031	<0.01	0.1

040	<0.01	0.1
039	<0.01	0.1
038	0.33	12.9
037	0.02	0.6
036	0.16	0.8
035	0.02	1.0
034	0.03	0.4
033	<0.01	0.4
032	<0.01	0.1
031	<0.01	0.9
030	<0.01	0.9
029	0.03	7.1
028	0.08	7.4
027	0.03	0.9
026	<0.01	0.3

035	<0.01	0.8
034	<0.01	0.3

A
2360
2350
2340
2330
2320
2310

A - A' Section



88	0.01	0.1
87	0.01	0.1
86	0.01	0.1
85	0.01	0.1
84	0.01	0.1
83	0.01	0.1
82	0.01	0.1
81	0.01	0.1
80	0.01	0.1

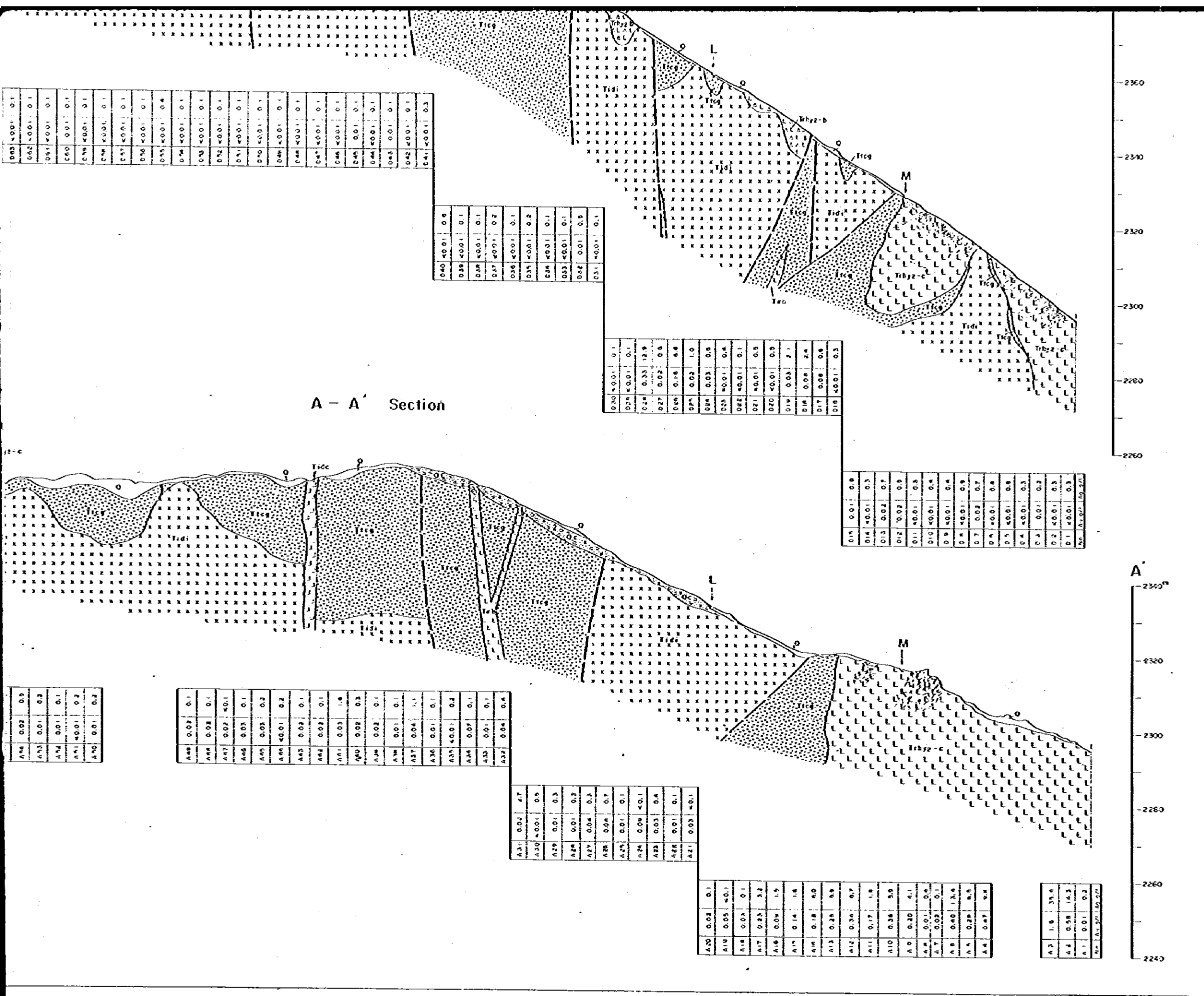
89	0.01	0.1
88	0.01	0.1
87	0.01	0.1
86	0.01	0.1
85	0.01	0.1
84	0.01	0.1
83	0.01	0.1
82	0.01	0.1
81	0.01	0.1
80	0.01	0.1

81	0.01	0.1
80	0.01	0.1
79	0.01	0.1
78	0.01	0.1
77	0.01	0.1
76	0.01	0.1
75	0.01	0.1
74	0.01	0.1
73	0.01	0.1
72	0.01	0.1
71	0.01	0.1
70	0.01	0.1

80	0.01	0.1
79	0.01	0.1
78	0.01	0.1
77	0.01	0.1
76	0.01	0.1
75	0.01	0.1
74	0.01	0.1
73	0.01	0.1
72	0.01	0.1
71	0.01	0.1
70	0.01	0.1



JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983



A - A' Section

LEGEND

- (Q) Detritus
 - (C) Coliche
 - (Trhyz-c) Compact rhyolite
 - (Trhyz-b) Brecciated rhyolite
 - (Tt) Tuffaceous conglomerate
- Intrusive rocks
- (D) Diorite
 - (R) Rhyolite
 - (AD) Altered diorite
- Fault
 - Quartz vein and quartz vein network
 - Iron oxide zone along joints and fractures
 - Disseminated zone of black small mineral
 - Argillaceous zone

083	<0.01	0.1
062	<0.01	0.1
061	<0.01	0.1
060	0.01	0.1
059	<0.01	0.1
058	<0.01	0.1
057	<0.01	0.1
056	<0.01	0.1
055	<0.01	0.4
054	<0.01	0.1
053	<0.01	0.1
052	<0.01	0.1
051	<0.01	0.1
050	<0.01	0.1
049	<0.01	0.1
048	<0.01	0.1
047	<0.01	0.1
046	<0.01	0.1
045	0.01	0.1
044	<0.01	0.1
043	0.01	0.1
042	<0.01	0.1
041	<0.01	0.3

040	40.01	0.8
039	<0.01	0.1
038	<0.01	0.1
037	<0.01	0.2
036	<0.01	0.1
035	<0.01	0.2
034	40.01	0.1
033	<0.01	0.1
032	0.01	0.3
031	<0.01	0.1

030	<0.01	0.1
029	<0.01	0.1
028	0.33	12.9
027	0.02	0.6
026	0.16	6.8
025	0.02	1.0
024	0.03	0.6
023	<0.01	0.4
022	40.01	0.1
021	40.01	0.1
020	40.01	0.9
019	40.01	0.1
018	0.06	2.4
017	0.08	0.8
016	40.01	0.3

015	0.01	0.8
014	<0.01	0.3
013	0.02	0.7
012	0.02	0.9
011	<0.01	0.3
010	<0.01	0.4
09	<0.01	0.4
08	<0.01	0.8
07	0.02	0.7
06	<0.01	0.8
05	<0.01	0.8
04	<0.01	0.3
03	0.01	0.3
02	<0.01	0.3
01	<0.01	0.3
00	0.01	0.9, 0.7

A76	0.02	0.9
A75	0.01	0.2
A74	0.01	0.1
A73	<0.01	0.2
A72	0.01	0.2

A68	0.02	0.1
A68	0.02	0.1
A67	0.02	<0.1
A66	0.03	0.1
A65	0.03	0.2
A64	<0.01	0.2
A63	0.03	0.1
A62	0.02	0.1
A61	0.03	1.6
A60	0.02	0.3
A59	0.02	0.1
A58	0.01	0.1
A57	0.04	1.1
A56	0.01	0.1
A55	<0.01	0.2
A54	0.05	0.1
A53	0.01	0.1
A52	0.04	0.4

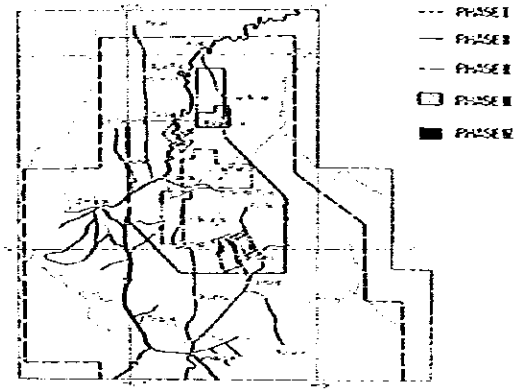
A51	0.01	2.7
A50	<0.01	0.5
A49	0.01	0.3
A48	0.01	0.3
A47	0.04	0.3
A46	0.04	0.7
A45	0.01	0.1
A44	0.04	<0.1
A43	0.03	0.4
A42	0.01	0.1
A41	0.02	<0.1

A37	0.01	0.1
A36	0.05	<0.1
A35	0.04	0.1
A34	0.25	3.2
A33	0.04	1.5
A32	0.14	1.6
A31	0.18	6.0
A30	0.25	9.9
A29	0.34	0.7
A28	0.17	1.9
A27	0.38	9.0
A26	0.20	0.1
A25	0.01	0.4
A24	0.03	0.1
A23	0.60	13.4
A22	0.28	6.4
A21	0.47	6.8

A2	1.6	35.4
A1	0.58	14.3
A0	0.01	0.2
00	1.6	14.0, 9.7



GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE II GEOLOGICAL PROFILES AND ASSAY RESULTS OF GEOCHEMICAL ROCK SAMPLES OF THE SAN CLEMENTE AREA (E-E', F-F', G-G', H-H') Scale 1:500

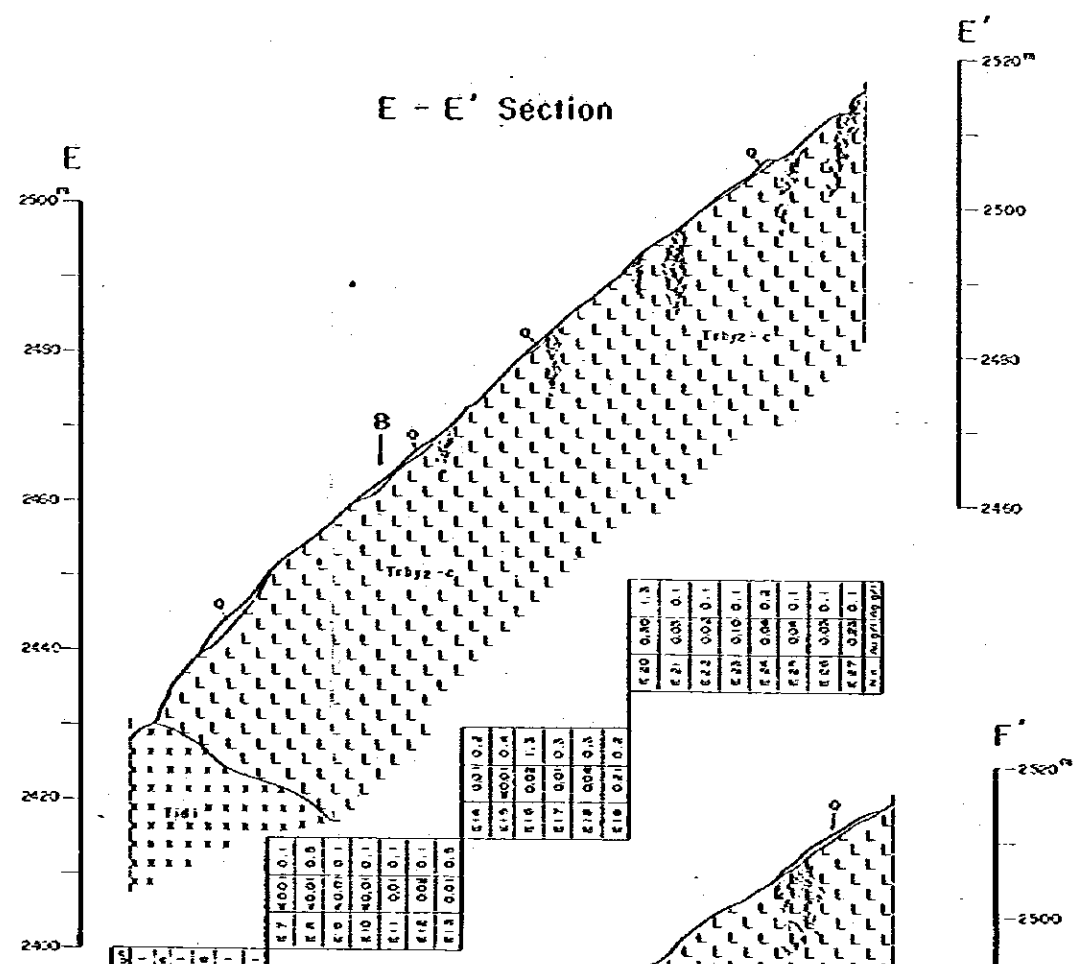


JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINEING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1983

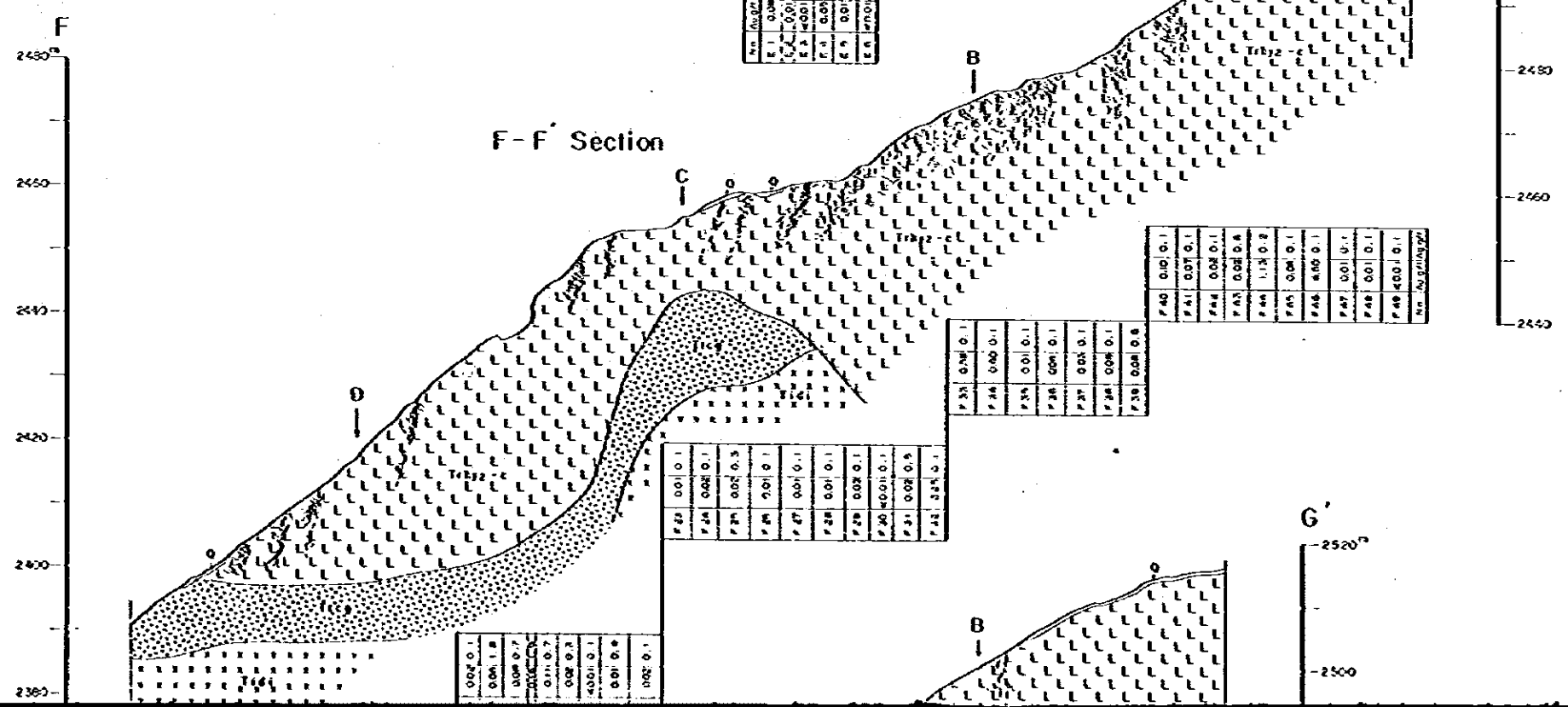
LEGEND

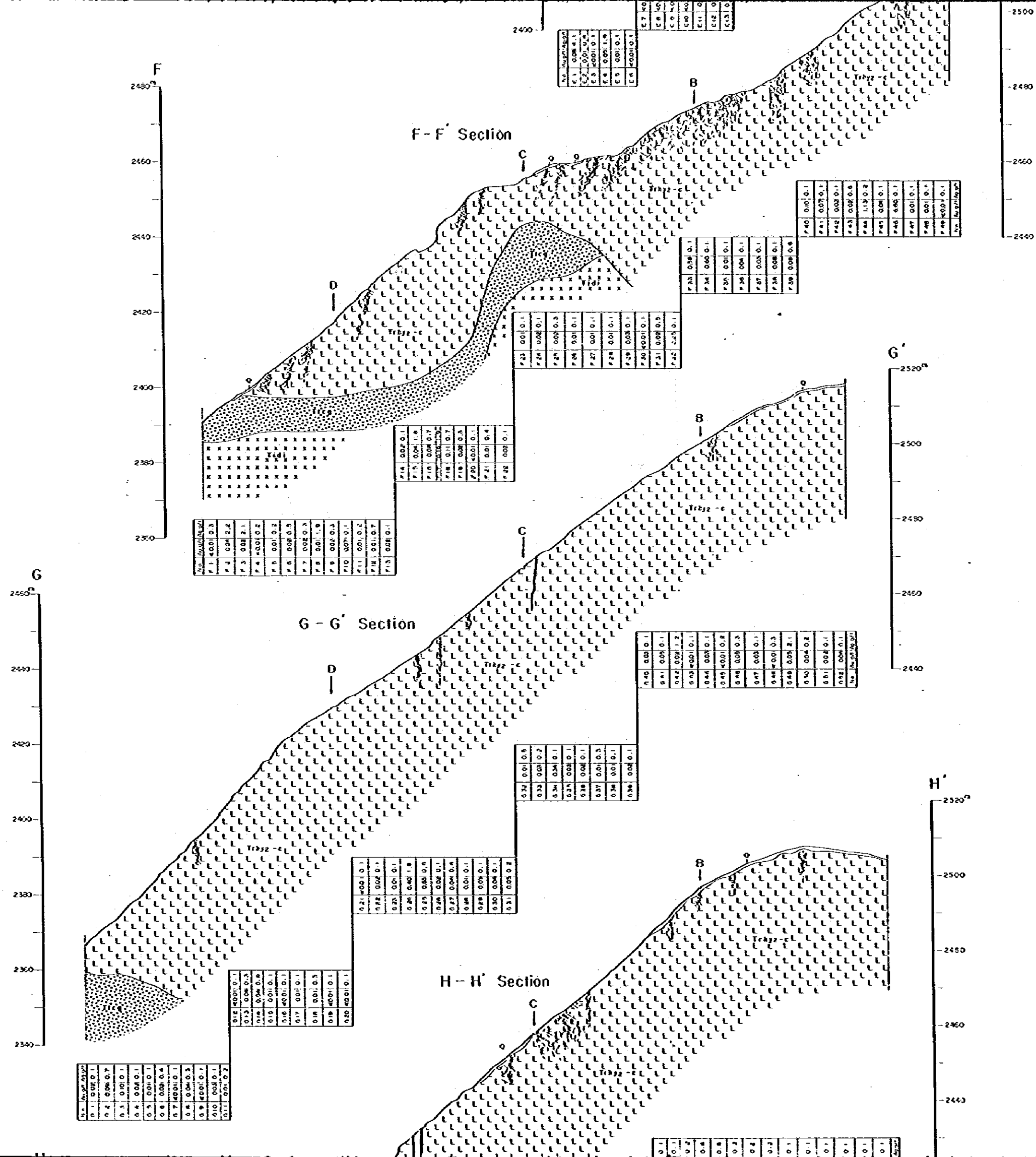
- (O) Detritus
- (Ocl) Calcite
- (Trhyz-c) Compact rhyolite
- (Trhyz-b) Brecciated rhyolite
- (Tregl) Tuffaceous conglomerate
- Intrusive rocks
 - (Trdc) Diorite
 - (Trrh) Rhyolite
 - (Trda) Altered diorite
- Fault
- Quartz vein and quartz vein network
- Iron oxide zone along joints and fractures
- Disseminated zone of black small mineral
- Argillaceous zone

E - E' Section

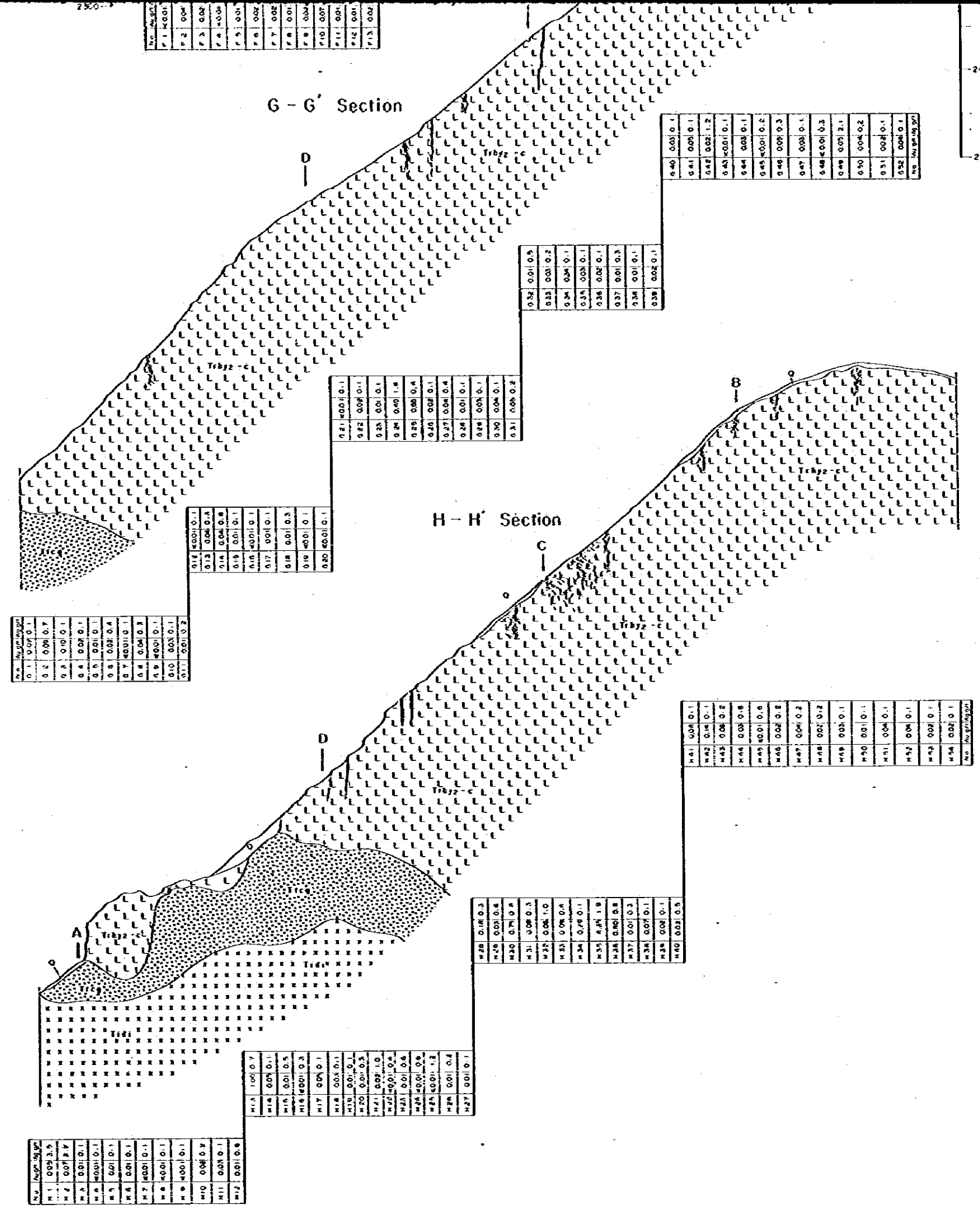
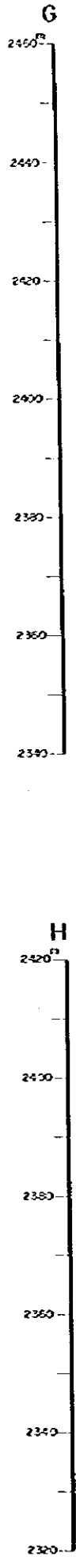


F - F' Section





- LEGEND**
- (Q) Detritus
 - (Qc) Colliche
 - (Trhyz-c) Compact rhyolite
 - (Trhyz-b) Brecciated rhyolite
 - (Treg) Tuffaceous conglomerate
- Intrusive rocks**
- (Tidc) Dacite
 - (Trh) Rhyolite
 - (Tid) Altered diorite
- Fault
 - Quartz vein and quartz vein network
 - Iron oxide zone along joints and fractures
 - Disseminated zone of black smelt mineral
 - Argillaceous zone



No.	Interval	Permeability
F1	0.001	0.1
F2	0.004	0.7
F3	0.02	0.1
F4	0.004	0.1
F5	0.001	0.1
F6	0.002	0.1
F7	0.002	0.1
F8	0.001	0.1
F9	0.002	0.1
F10	0.007	0.1
F11	0.001	0.1
F12	0.001	0.1
F13	0.002	0.1

No.	Interval	Permeability
G40	0.03	0.1
G41	0.03	0.1
G42	0.02	1.2
G43	0.001	0.1
G44	0.03	0.1
G45	0.001	0.2
G46	0.003	0.3
G47	0.003	0.1
G48	0.001	0.3
G49	0.003	2.1
G50	0.04	0.2
G51	0.003	0.1
G52	0.04	0.1
No.	Interval	Permeability

No.	Interval	Permeability
H32	0.01	0.5
H33	0.01	0.2
H34	0.04	0.1
H35	0.03	0.1
H36	0.02	0.1
H37	0.01	0.3
H38	0.01	0.1
H39	0.003	0.1
H40	0.04	0.1
H41	0.003	0.2

No.	Interval	Permeability
H21	0.001	0.1
H22	0.003	0.1
H23	0.01	0.5
H24	0.001	1.8
H25	0.001	0.4
H26	0.02	0.1
H27	0.001	0.4
H28	0.01	0.1
H29	0.003	0.1
H30	0.04	0.1
H31	0.003	0.2

No.	Interval	Permeability
H12	0.001	0.1
H13	0.04	0.5
H14	0.04	0.8
H15	0.01	0.1
H16	0.001	0.1
H17	0.001	0.1
H18	0.01	0.3
H19	0.001	0.1
H20	0.001	0.1
H21	0.001	0.1

No.	Interval	Permeability
H1	0.001	0.1
H2	0.001	0.7
H3	0.001	0.1
H4	0.001	0.1
H5	0.001	0.4
H6	0.001	0.1
H7	0.001	0.1
H8	0.04	0.3
H9	0.001	0.1
H10	0.003	0.1
H11	0.001	0.2

No.	Interval	Permeability
H28	0.10	0.3
H29	0.01	0.8
H30	0.01	0.8
H31	0.003	0.3
H32	0.04	1.0
H33	0.003	0.4
H34	0.001	0.1
H35	0.04	1.8
H36	0.001	0.8
H37	0.01	0.3
H38	0.001	0.1
H39	0.003	0.1
H40	0.02	0.5

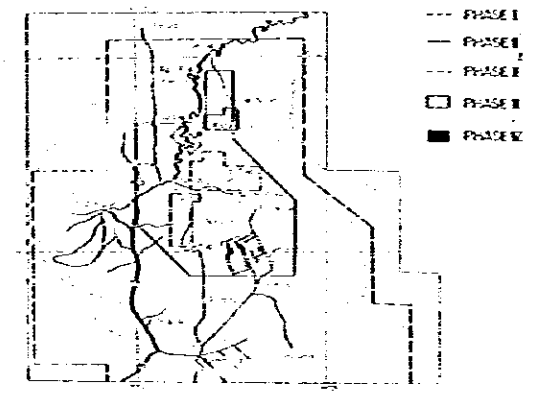
No.	Interval	Permeability
H41	0.001	0.1
H42	0.10	0.1
H43	0.003	0.2
H44	0.003	0.8
H45	0.001	0.6
H46	0.003	0.8
H47	0.001	0.2
H48	0.02	0.2
H49	0.003	0.1
H50	0.01	0.1
H51	0.003	0.1
H52	0.001	0.1
H53	0.003	0.1
H54	0.003	0.1
No.	Interval	Permeability

No.	Interval	Permeability
H14	1.00	0.7
H15	0.00	0.1
H16	0.01	0.5
H17	0.001	0.3
H18	0.00	0.1
H19	0.00	0.1
H20	0.01	0.5
H21	0.00	1.0
H22	0.00	0.4
H23	0.01	0.6
H24	0.00	0.5
H25	0.001	1.2
H26	0.00	0.4
H27	0.01	0.1

No.	Interval	Permeability
H1	0.003	0.5
H2	0.003	2.4
H3	0.001	0.1
H4	0.001	0.1
H5	0.001	0.1
H6	0.001	0.1
H7	0.001	0.1
H8	0.001	0.1
H9	0.001	0.1
H10	0.001	0.4
H11	0.001	0.1
H12	0.001	0.8

GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE II GEOLOGICAL PROFILES AND ASSAY RESULTS OF GEOCHEMICAL ROCK SAMPLES OF THE SAN CLEMENTE AREA (I-I', J-J', K-K', L-L', M-M')

Scale 1 : 500

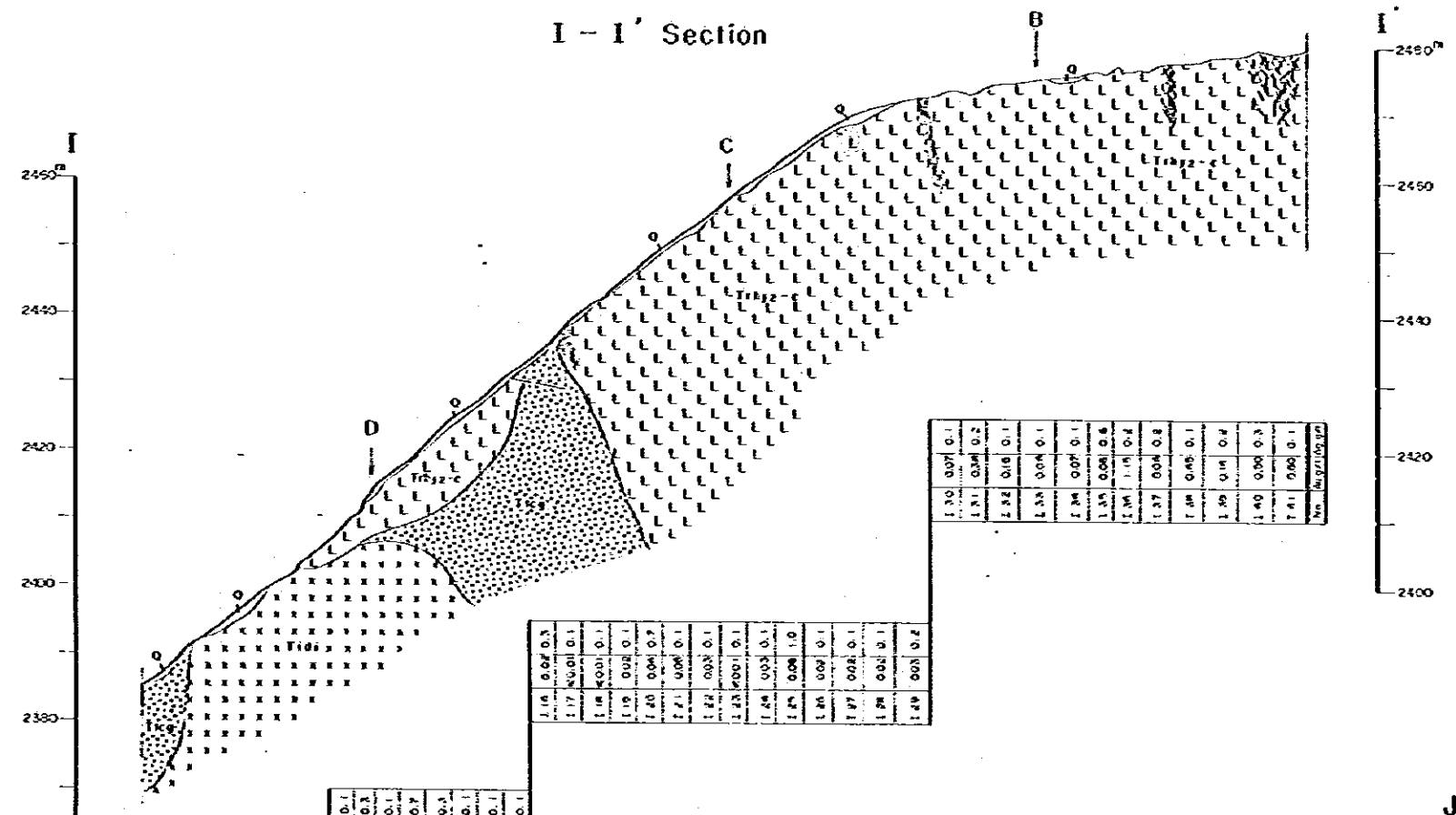


JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1983

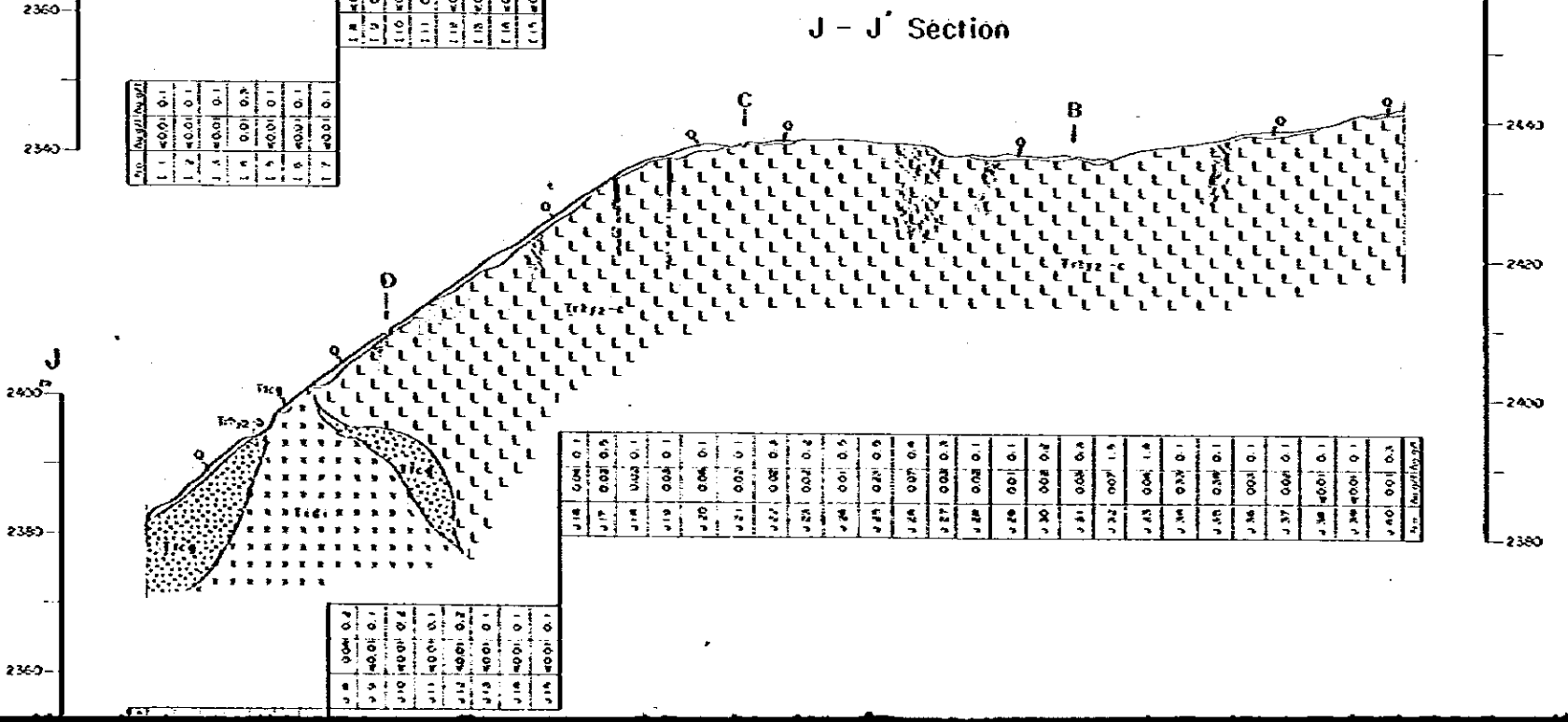
LEGEND

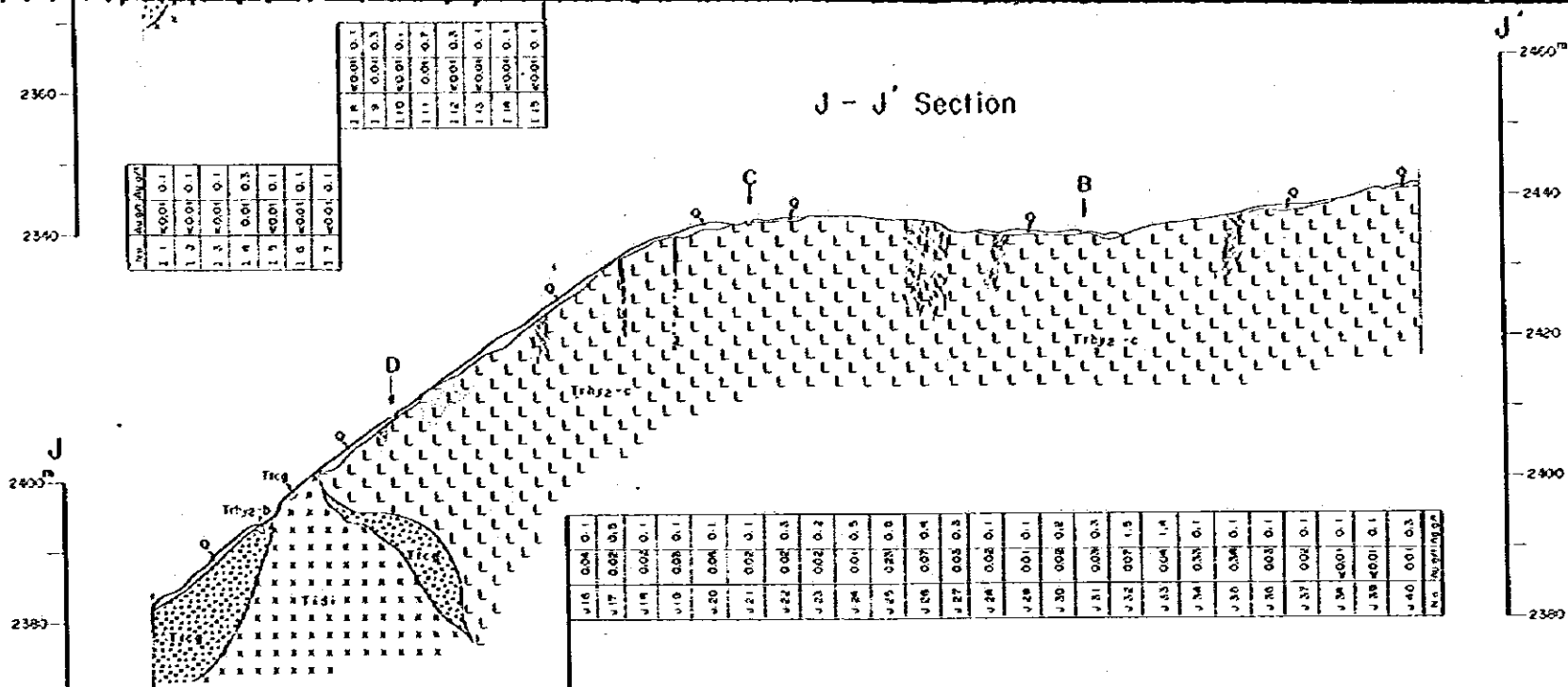
- (O) Detritus
- (Ocl) Colicche
- (L₁L₂L₃) (Trh₂-cl) Compact rhyolite
- (L₁L₂L₃S₁S₂S₃) (Trh₂-bl) Brecciated rhyolite
- (Treg) Tuffaceous conglomerate
- Intrusive rocks**
 - (Trdc) Diorite
 - (Trrh) Rhyolite
 - (Trdi) Altered diorite
- Fault
- Quartz vein and quartz vein network
- Iron oxide zone along joints and fractures
- Disseminated zone of black smalt mineral

I - I' Section

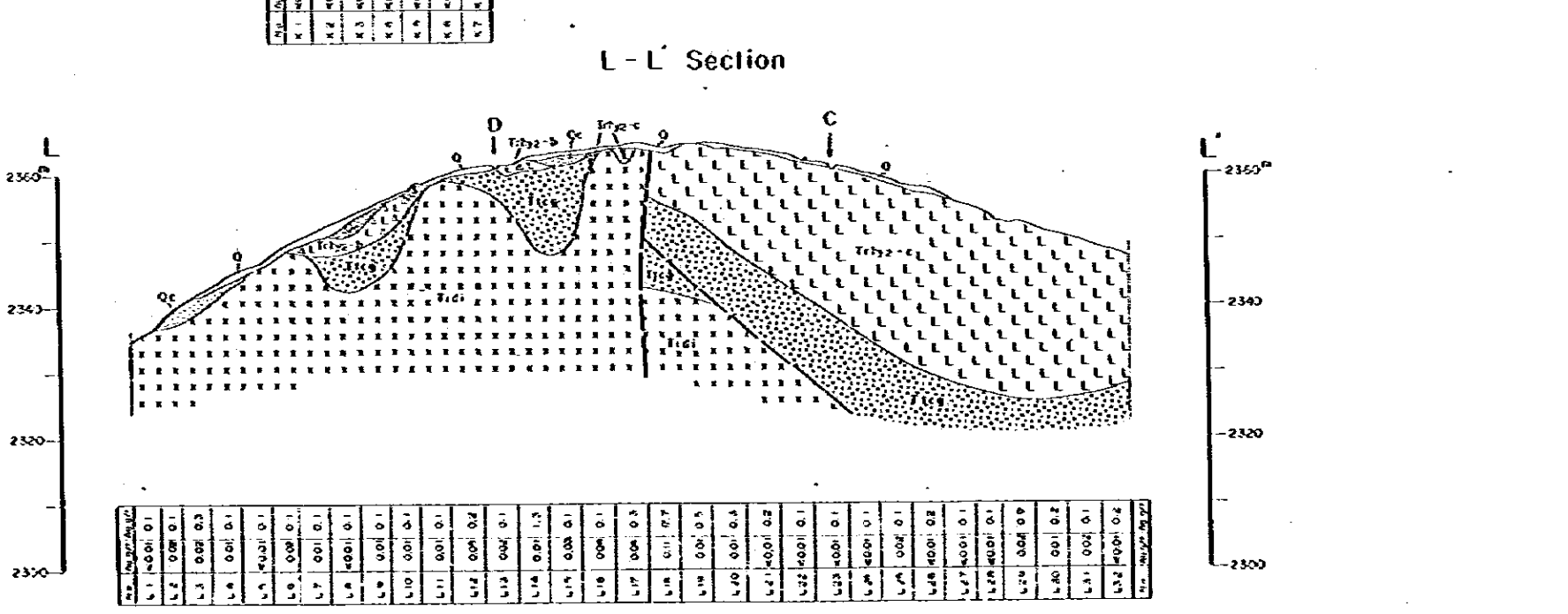
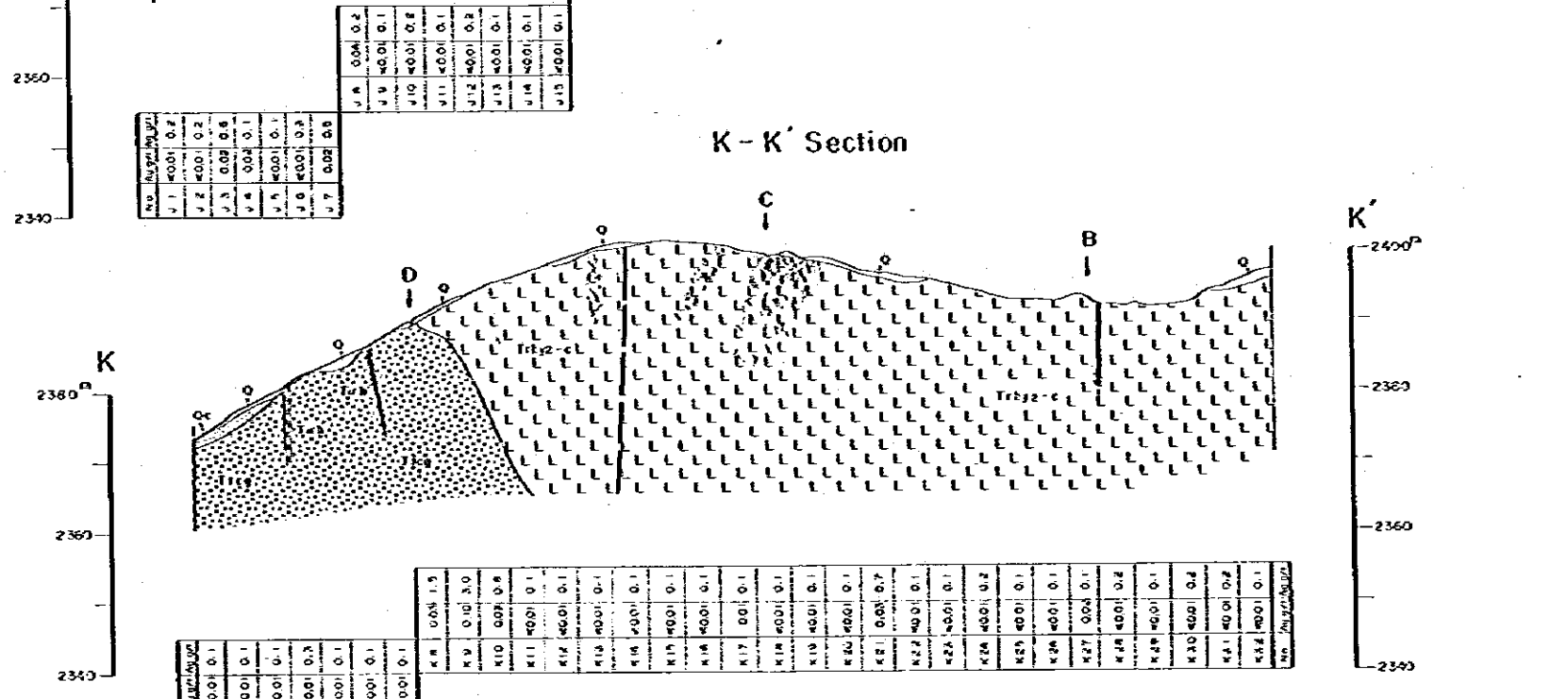


J - J' Section





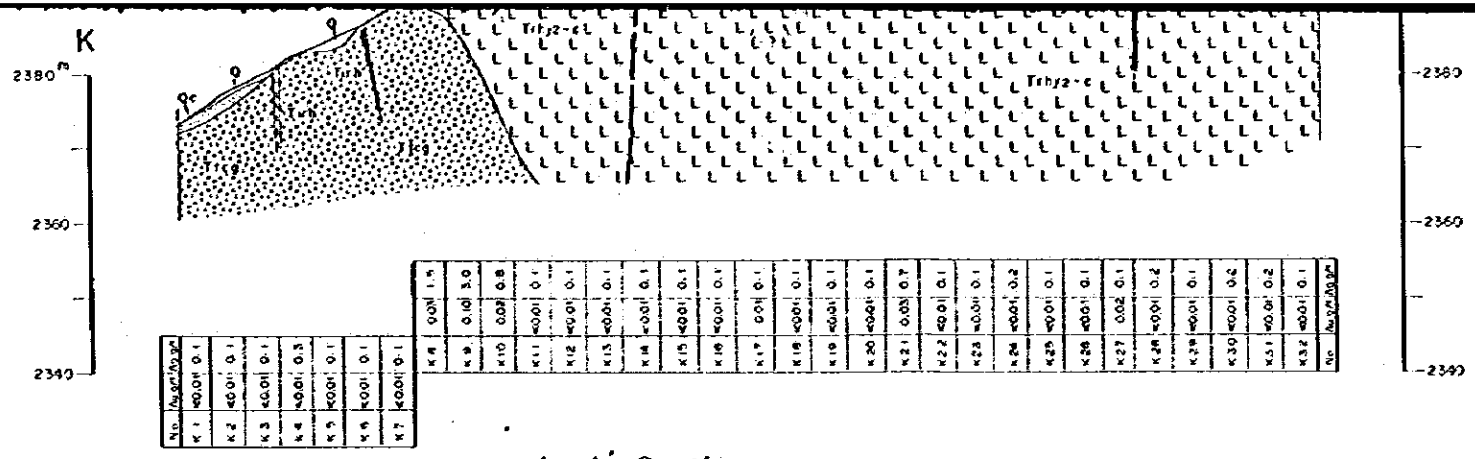
- ### LEGEND
- (Iq) Detritus
 - (Iqc) Colicite
 - (Trhyz-c) Compact rhyolite
 - (Trhyz-b) Brecciated rhyolite
 - (ITfcg) Tuffaceous conglomerate
- ### Intrusive rocks
- (ITdc) Basite
 - (ITrb) Rhyolite
 - (ITdi) Altered diorite
- Fault
 - Quartz vein and quartz vein network
 - Iron oxide zone along joints and fractures
 - Disseminated zone of black smalt mineral
 - Argillaceous zone



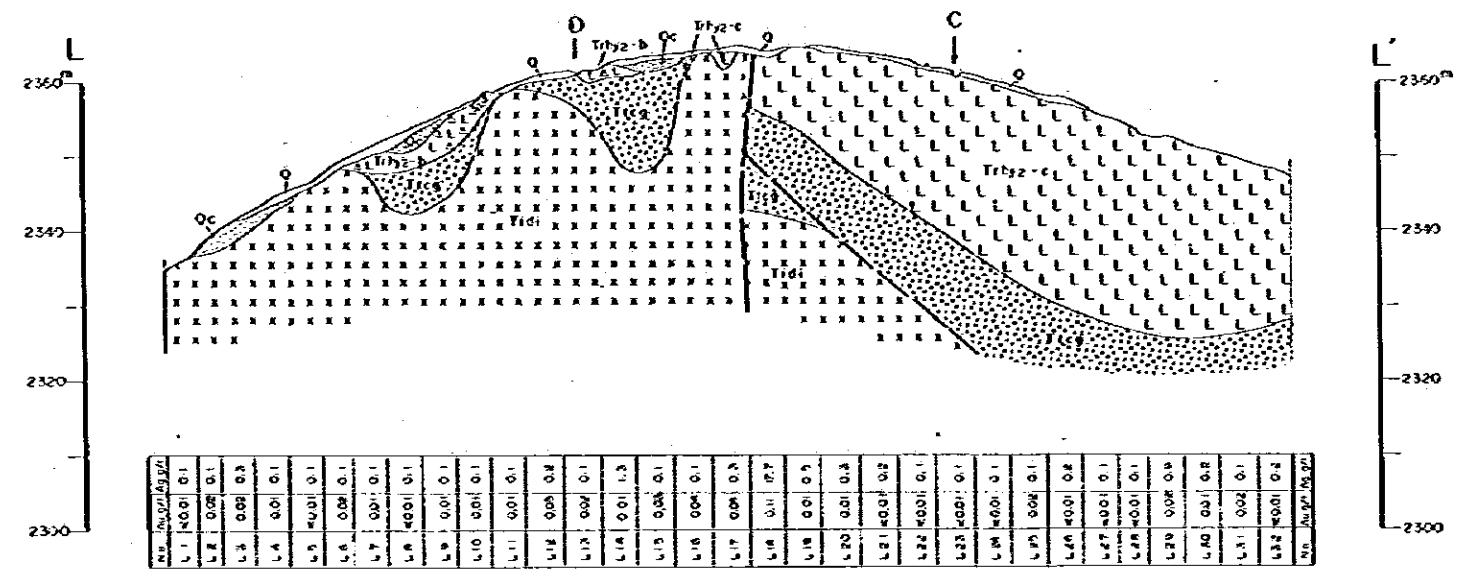
M

M - M' Section

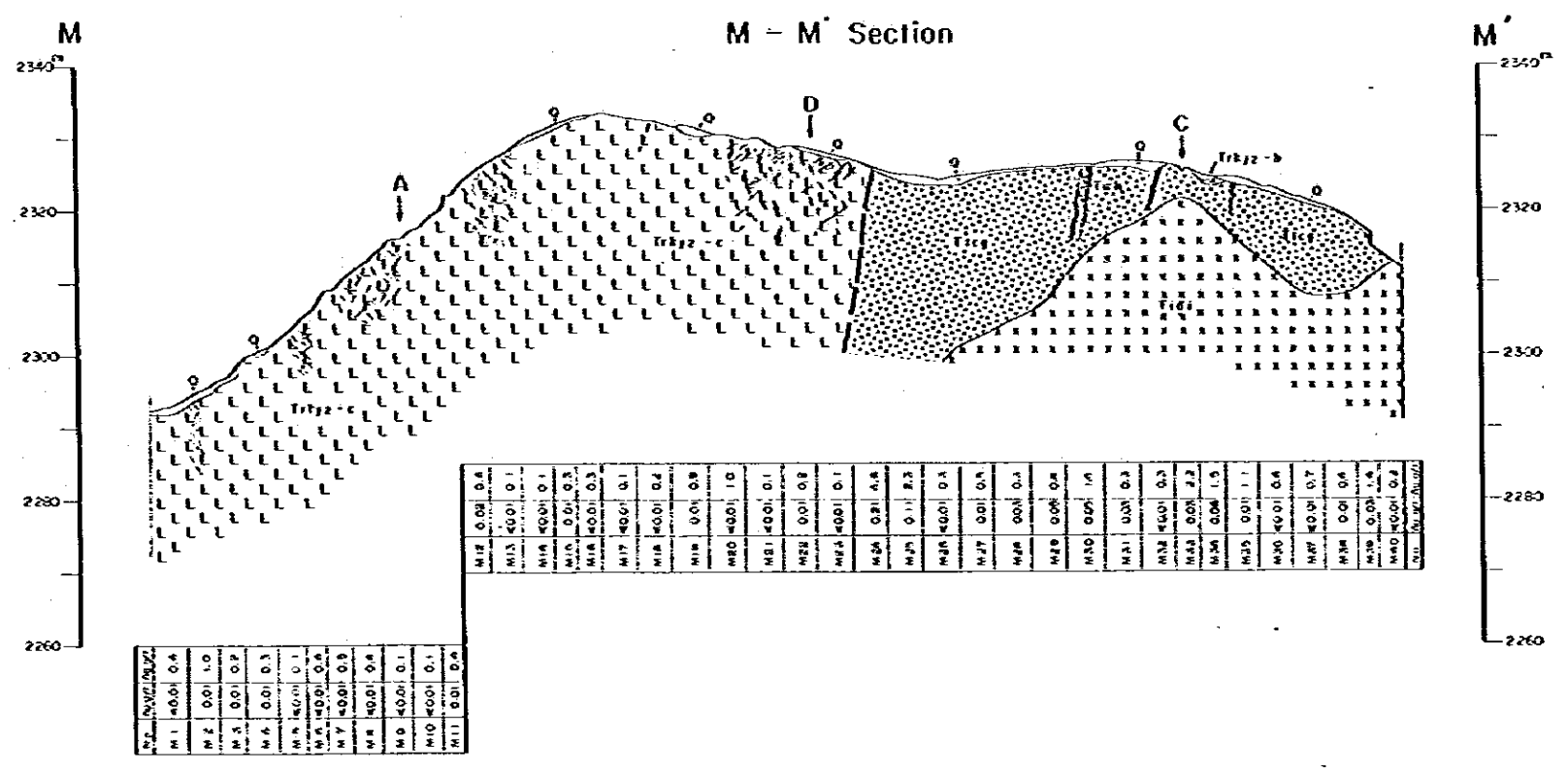
M'



L - L' Section

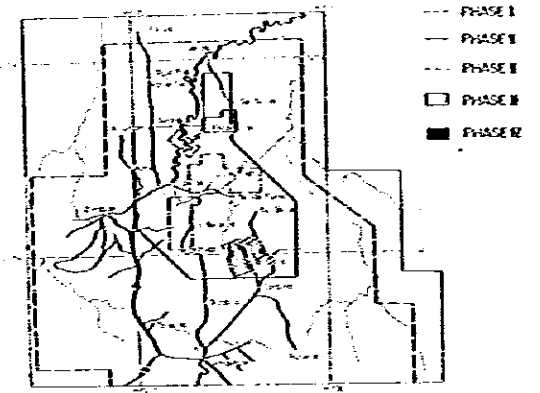


M - M' Section

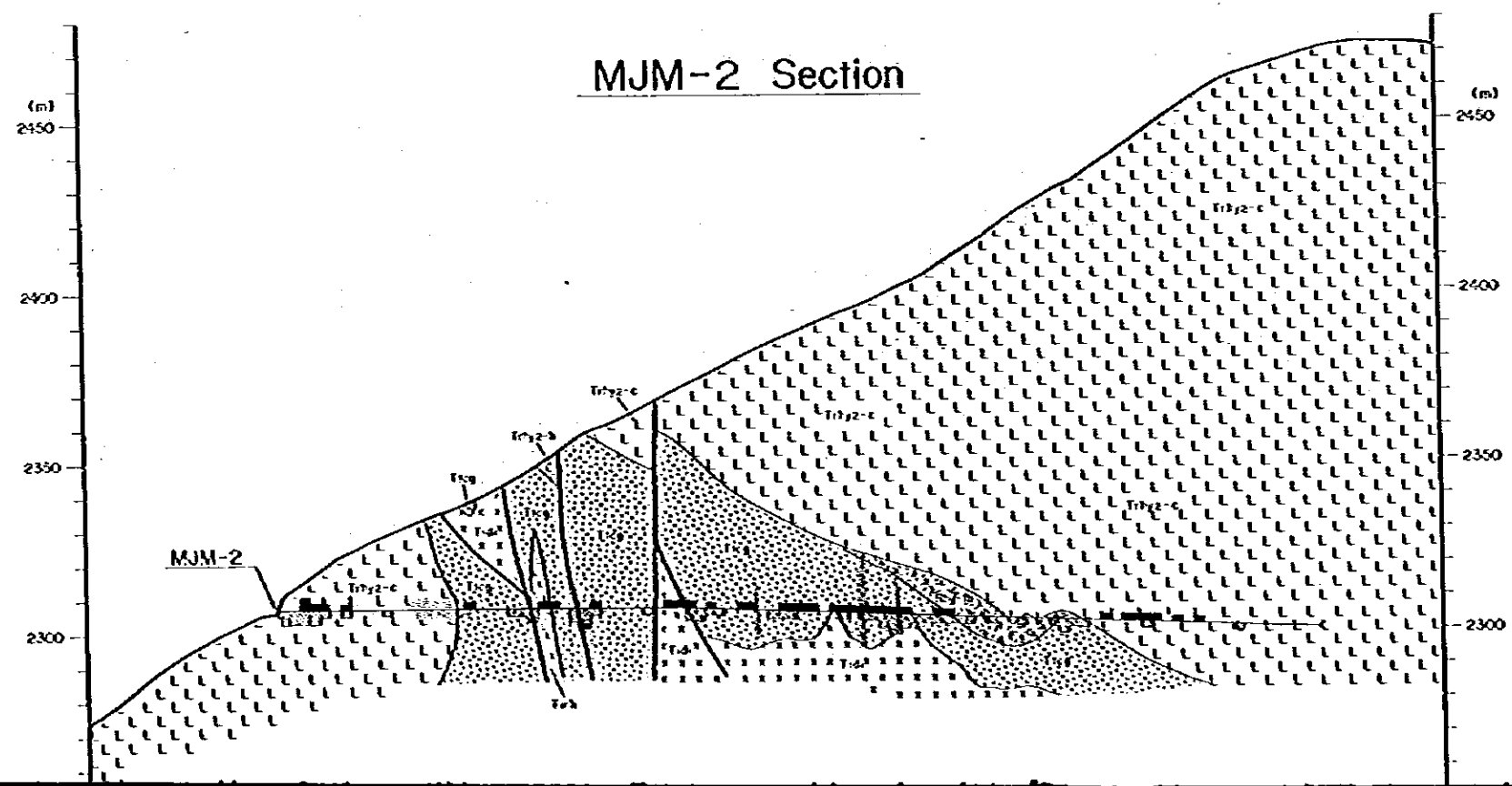
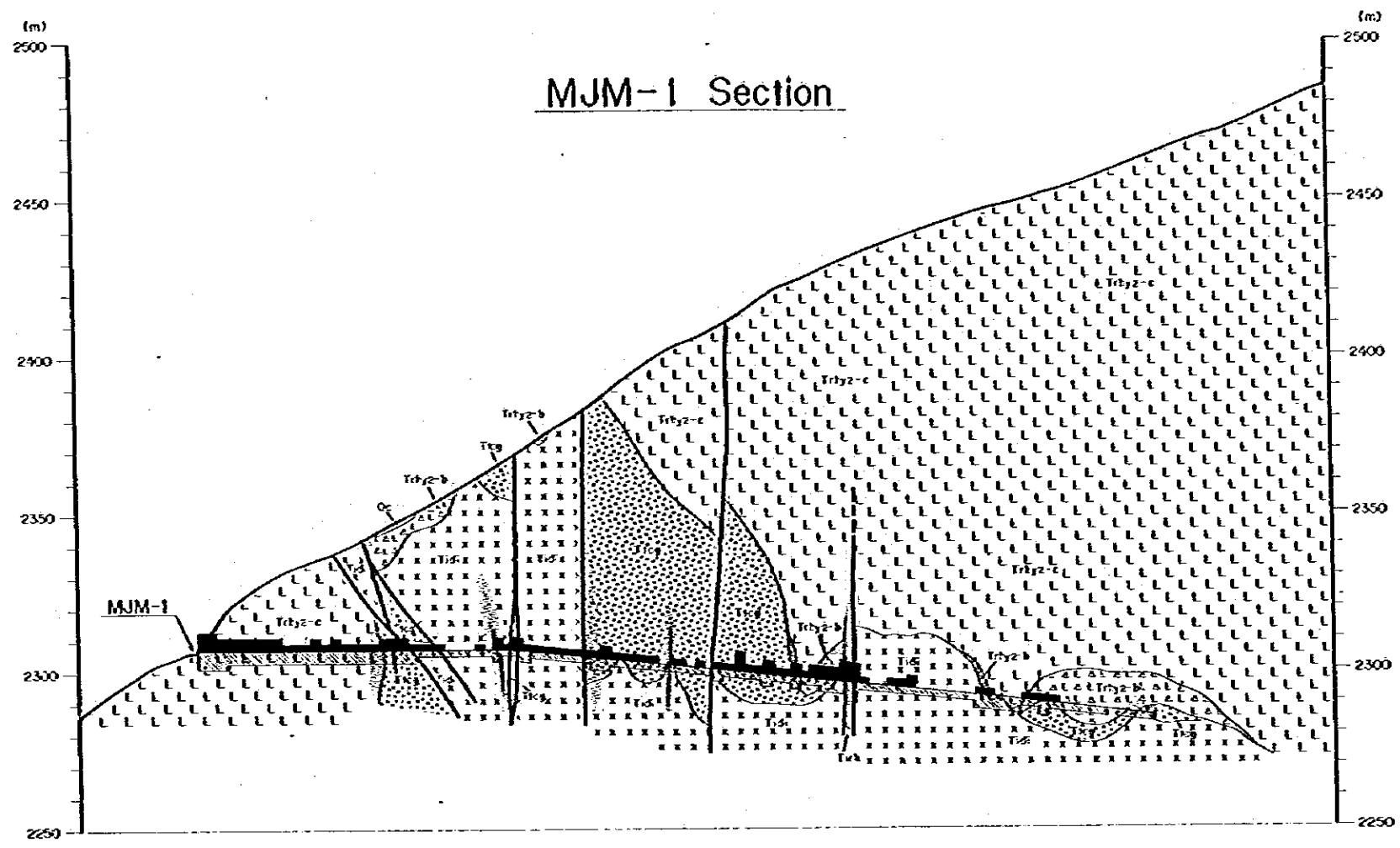


GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II
GEOLOGICAL PROFILES
BY DRILLING HOLES
OF THE SAN CLEMENTE AREA

Scale 1 : 1,000



JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983



LEGEND

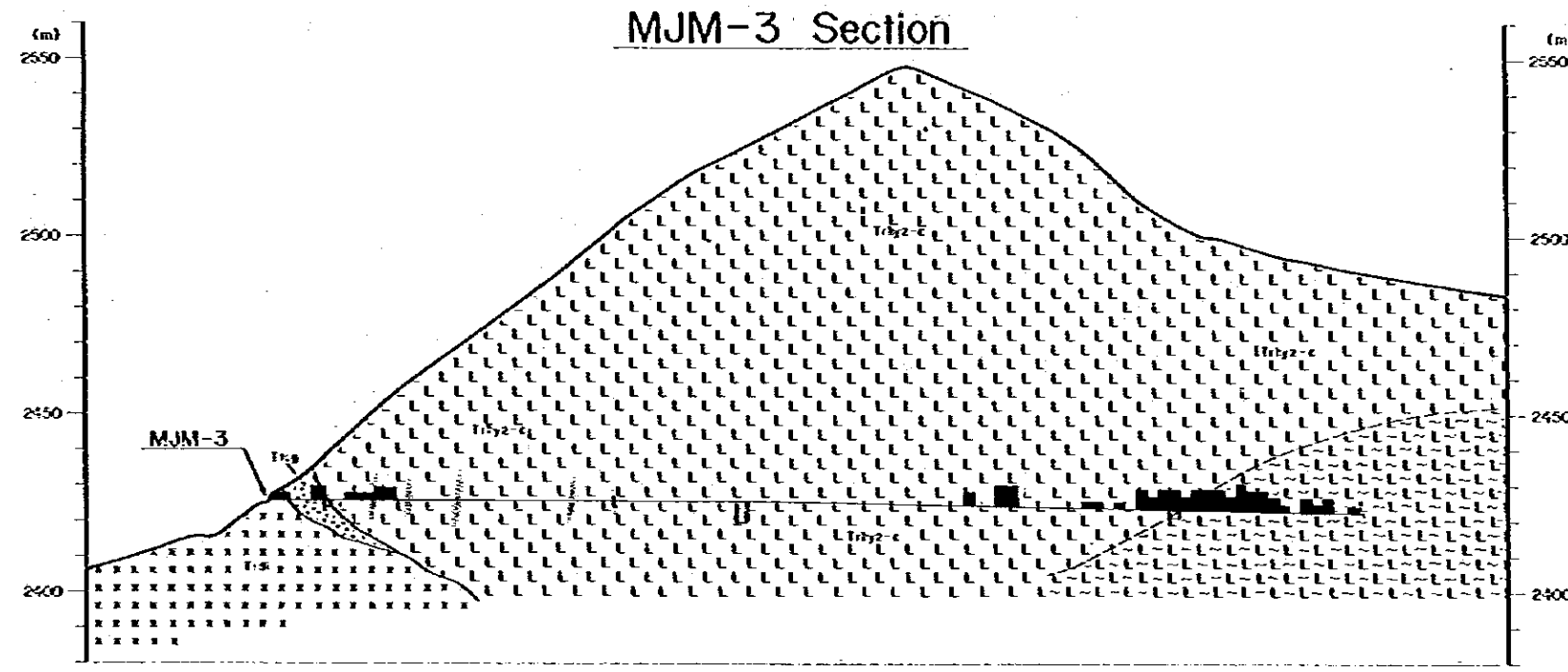
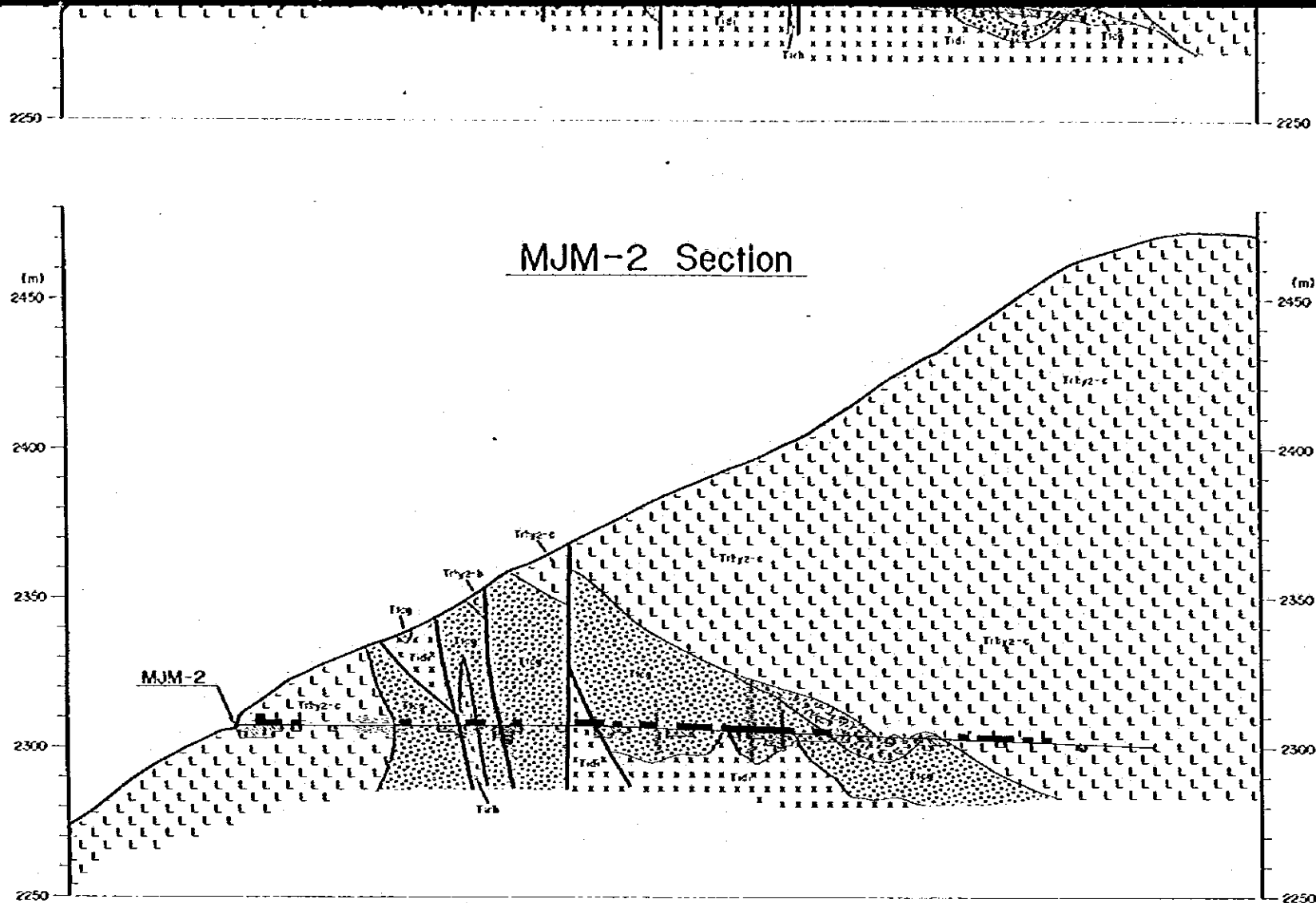
- Clastic
- Compact rhyolite
- Brecciated rhyolite
- Rhyolite tuff breccia
- Tuffaceous conglomerate

Intrusive rocks

- Rhyolite
- Altered diorite

- Fault
- Flow structure
- Oxide ore
- Diamond drilling hole

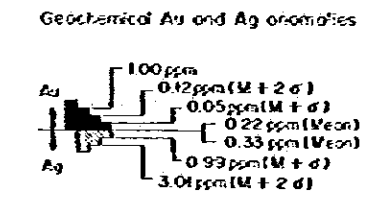
Geochemical Au and Ag anomalies



LEGEND

- Coliche
- Compact rhyolite
- Brecciated rhyolite
- Rhyolitic tuff breccia
- Tuffaceous conglomerate

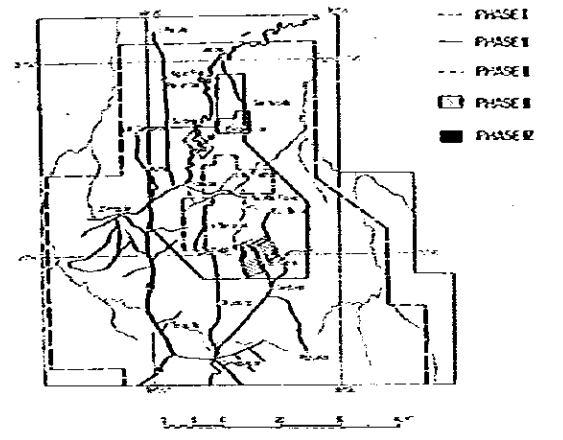
- Intrusive rocks
- Rhyolite
 - Altered diorite
- Fault
 - Flow structure
 - Oxide ore
 - Diamond drilling hole



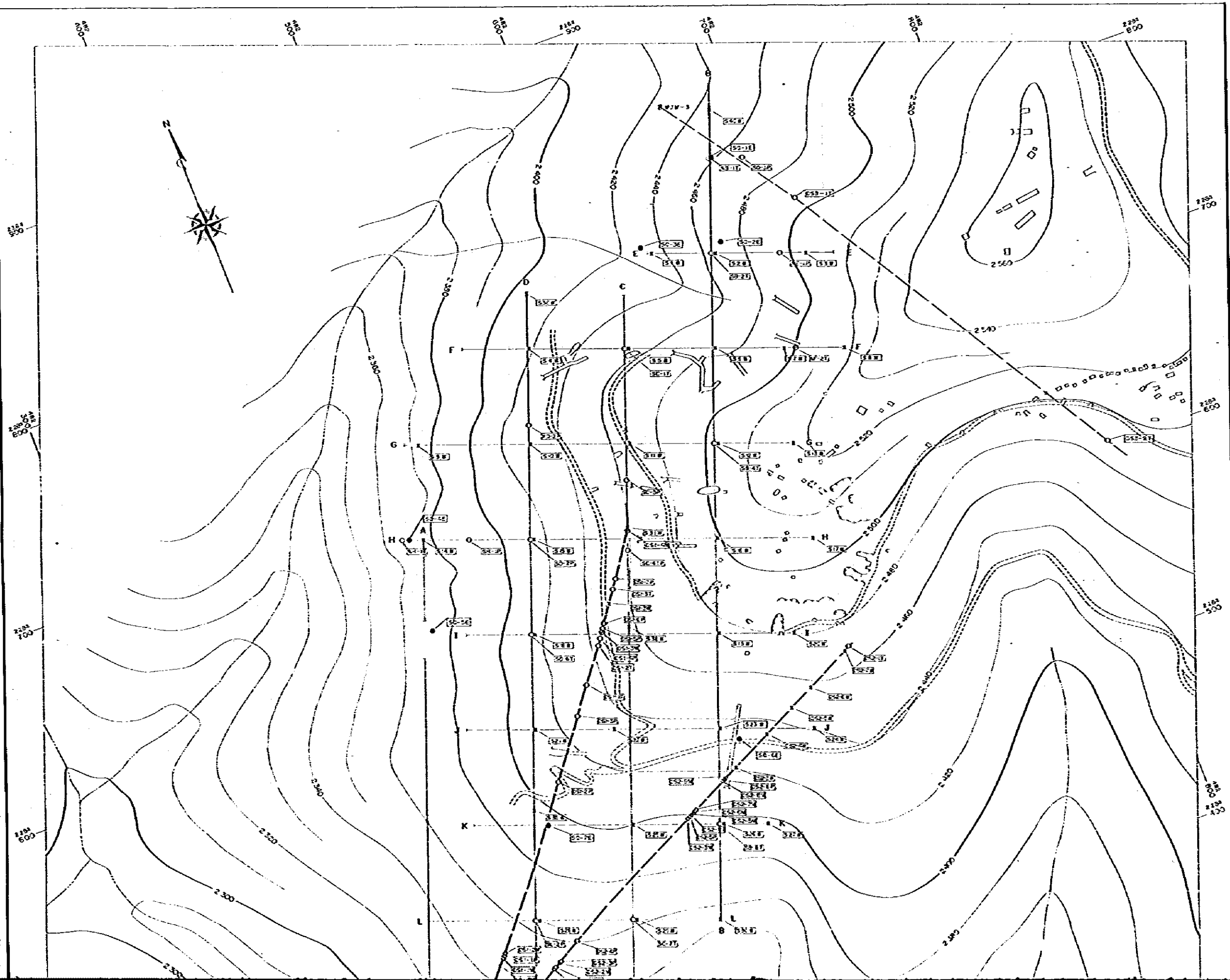
GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II

LOCATION MAP OF THE EXAMINED
ROCK AND ORE SAMPLES
FROM THE SAN CLEMENTE AREA

Scale 1 : 1,000



JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983



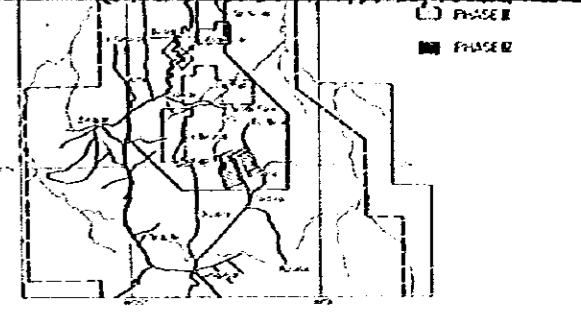
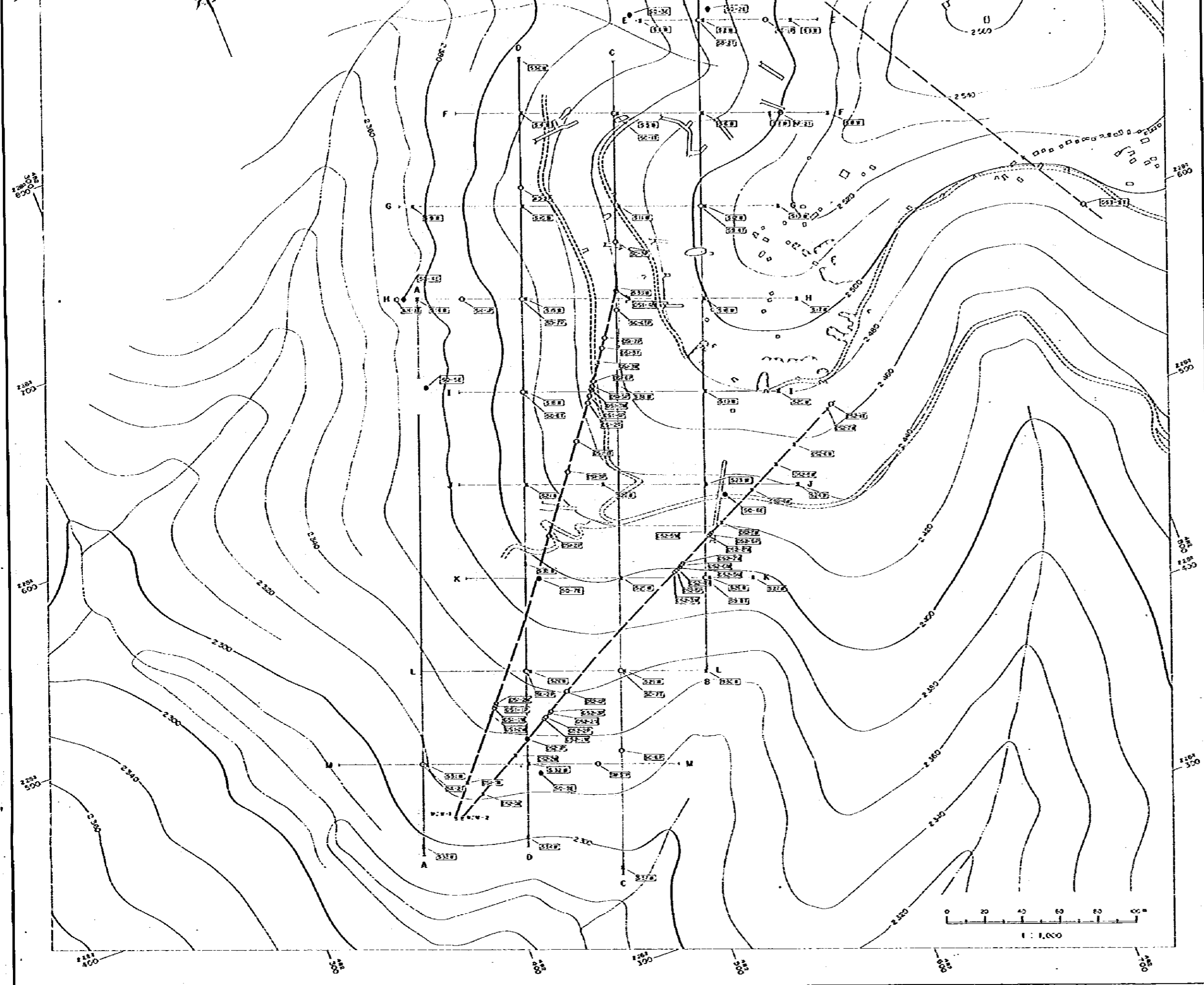
EXPLANATION

Suffixes of sample number mean the type of the examination as follows

- Example : SM-18T
- T ; Microscopic observation of thin section
- P ; Microscopic observation of polished section
- M ; Ore assaying
- W ; Chemical analysis of whole rock
- E ; Analysis of minor elements

NUMBER OF SAMPLES

Thin section	18	FCS
Polished section	23	.
Ore assaying	13	.
Whole rock	50	.
Minor elements	8	.



JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

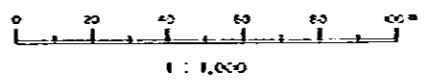
EXPLANATION

Suffixes of sample number mean the type of the examination as follows:

- Example : SM-51P
- F ; Microscopic observation of thin section
- P ; Microscopic observation of polished section
- M ; Ore assaying
- W ; Chemical analysis of whole rock
- E ; Analysis of minor elements

NUMBER OF SAMPLES

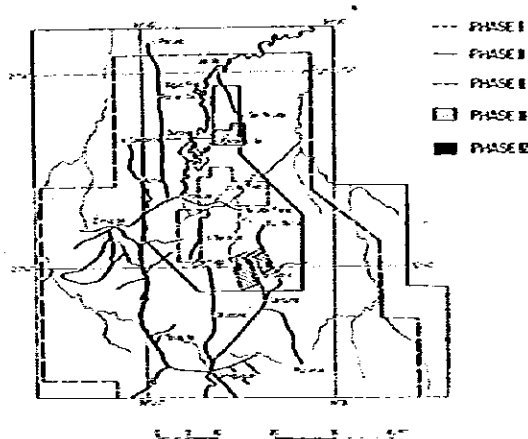
Thin section	18	FCS
Polished section	23	-
Ore assaying	13	-
Whole rock	50	-
Minor elements	8	-



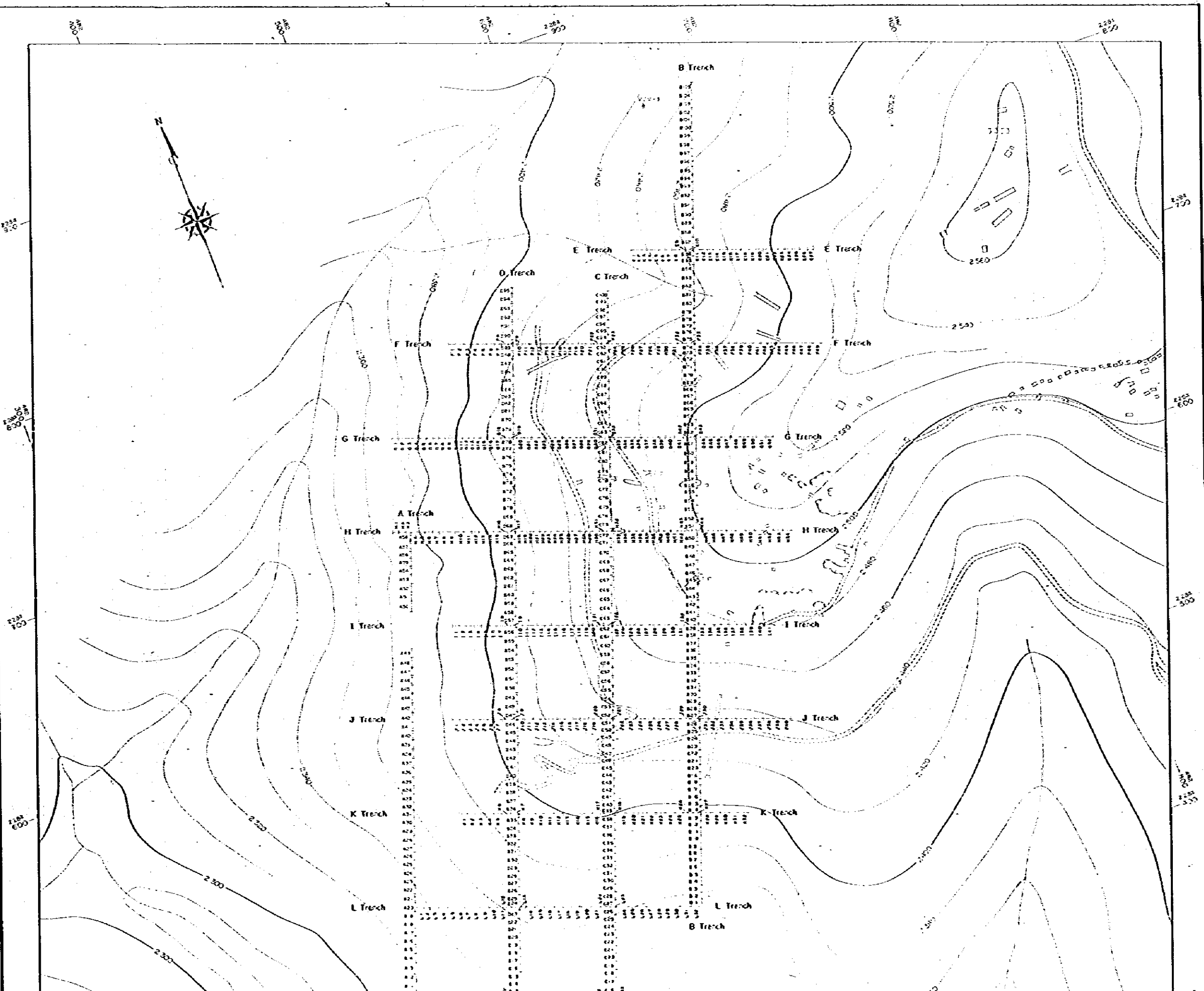
GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II

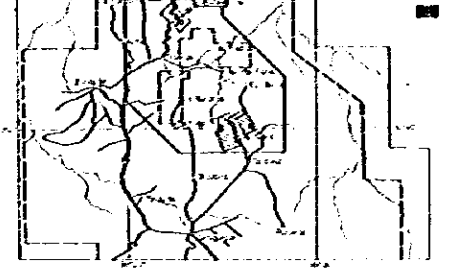
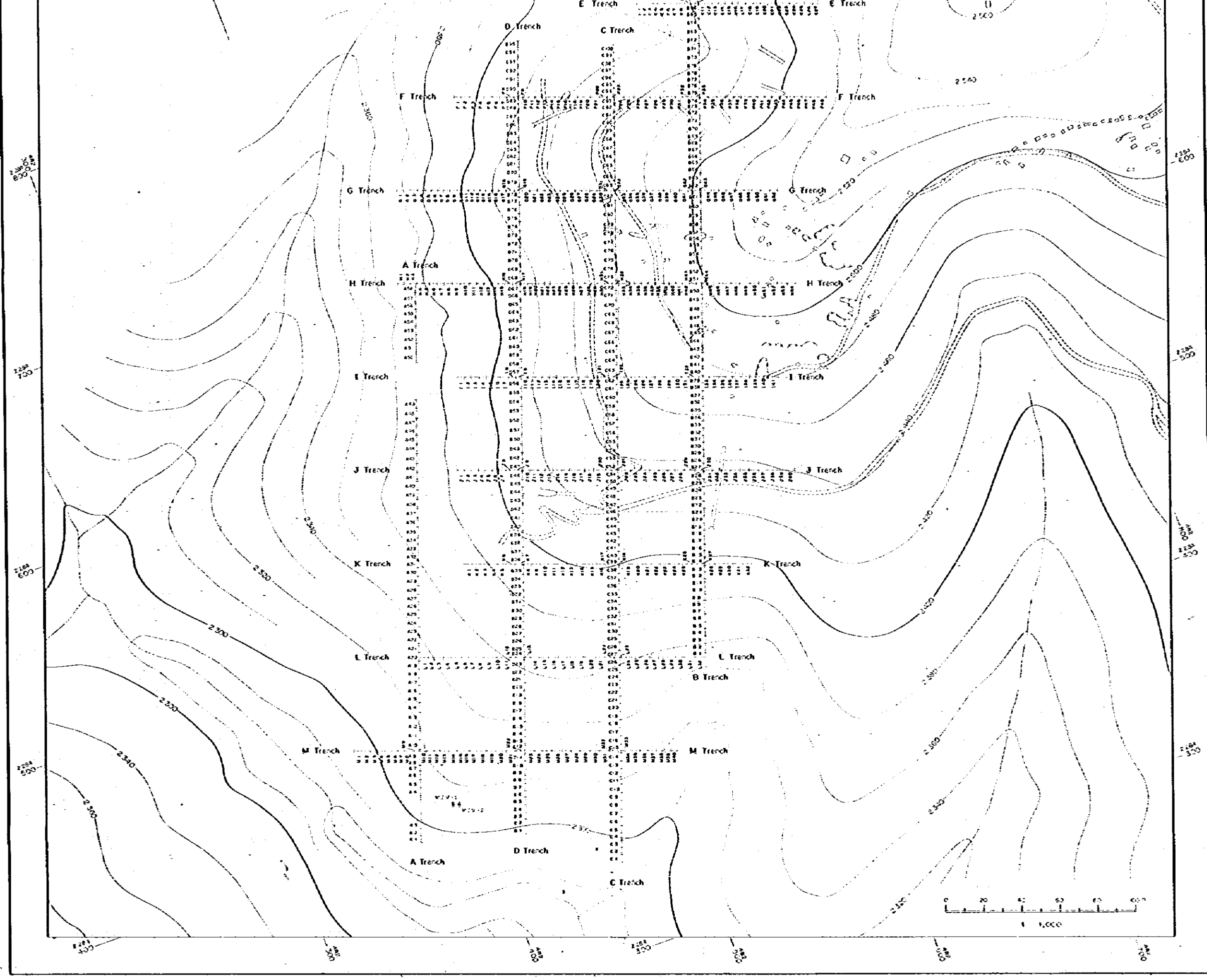
LOCATION MAP OF ROCK SAMPLES
FOR GEOCHEMICAL EXPLORATION
IN THE SAN CLEMENTE AREA

Scale 1 : 1,000



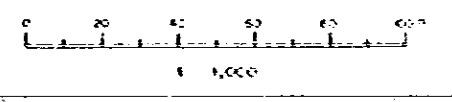
JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983





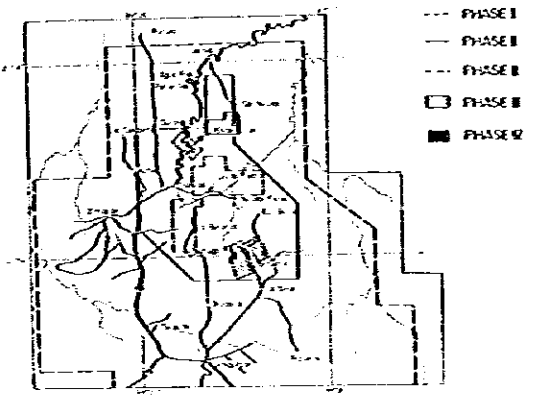
JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

PHASE 2

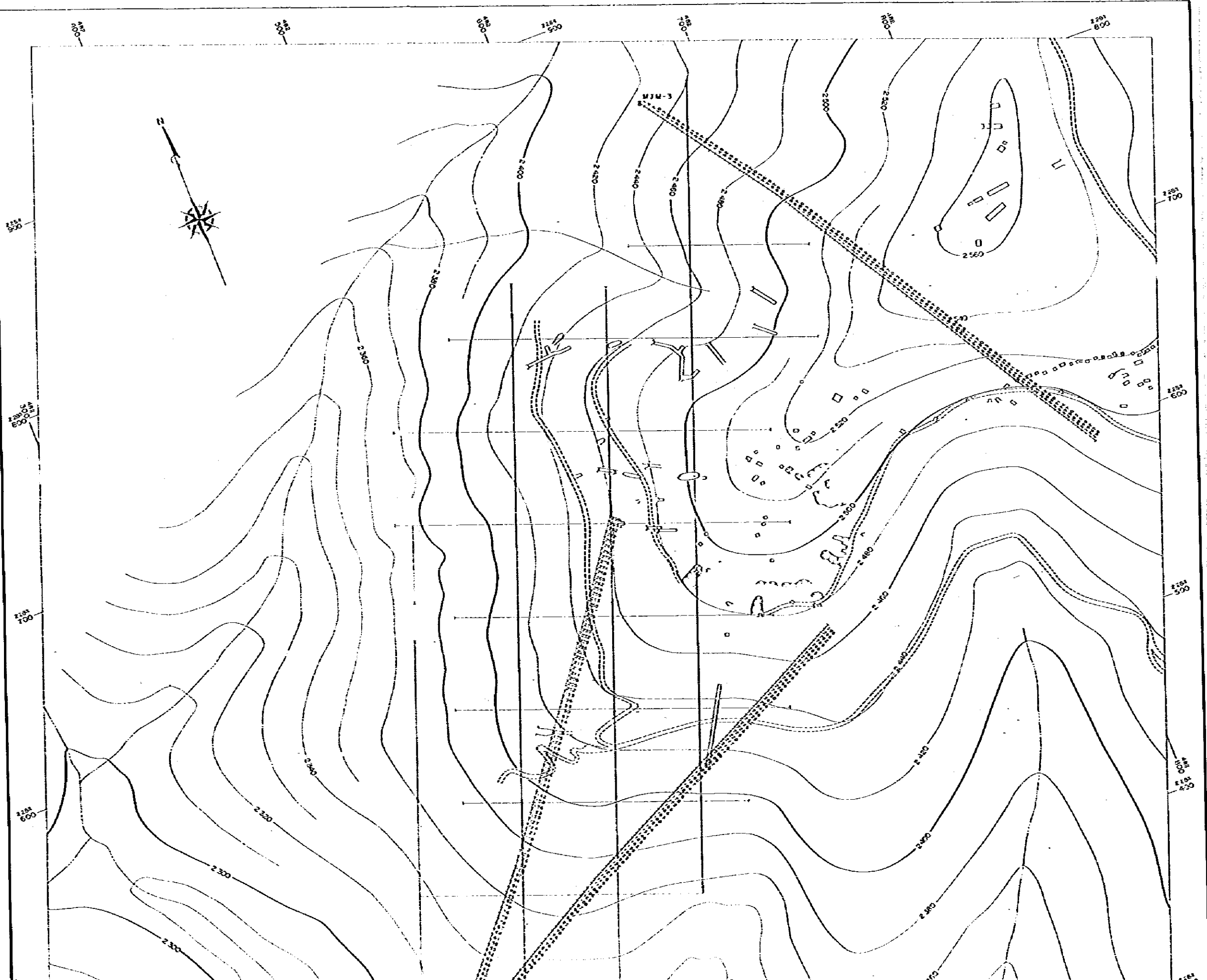


GEOLOGICAL SURVEY
 OF
 THE PACHUCA - ZIMAPAN AREA
 PHASE II
 LOCATION MAP OF CORE SAMPLES
 FOR GEOCHEMICAL EXPLORATION
 FROM DRILLING HOLES IN THE
 SAN CLEMENTE AREA

Scale 1 : 1,000

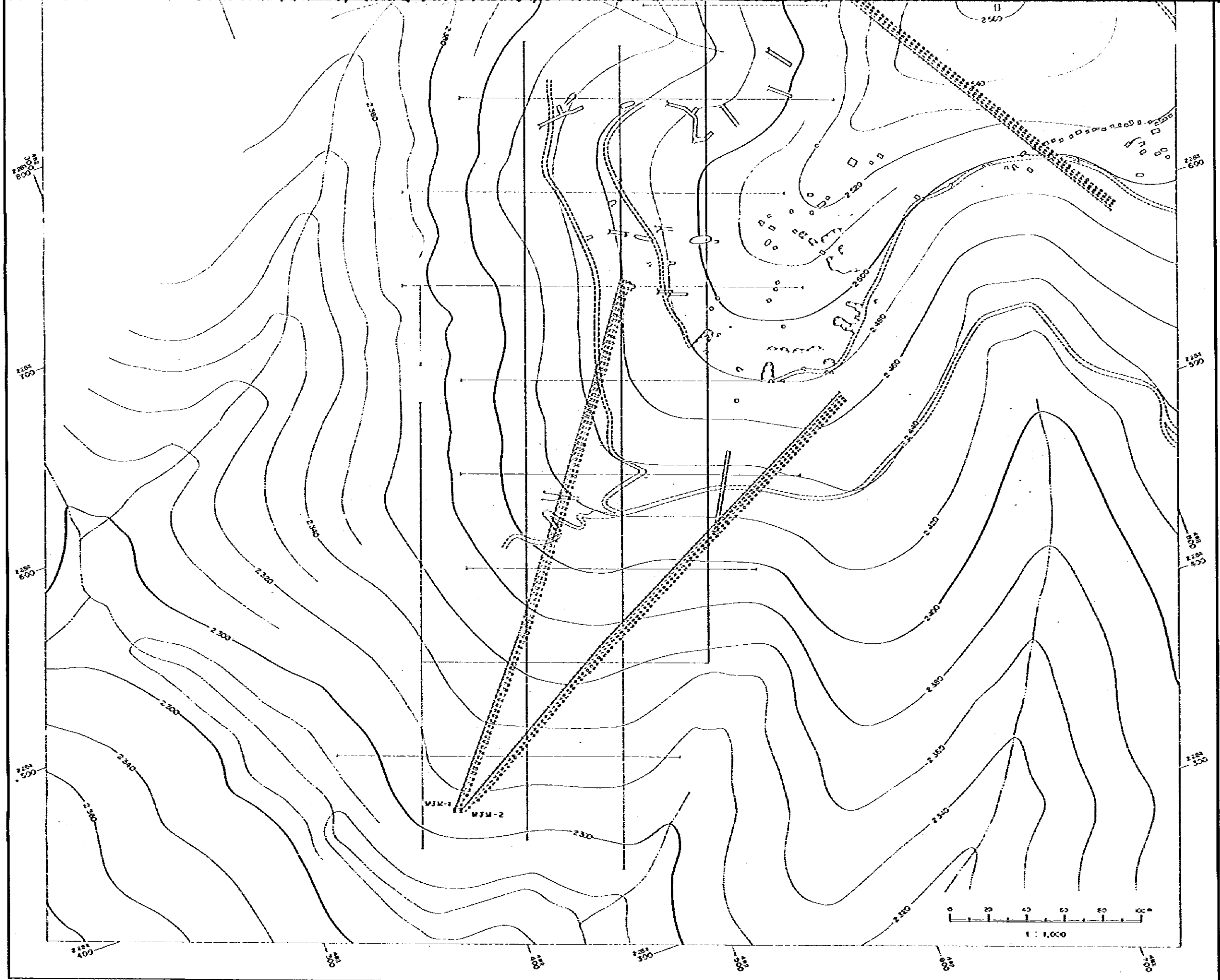


JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983





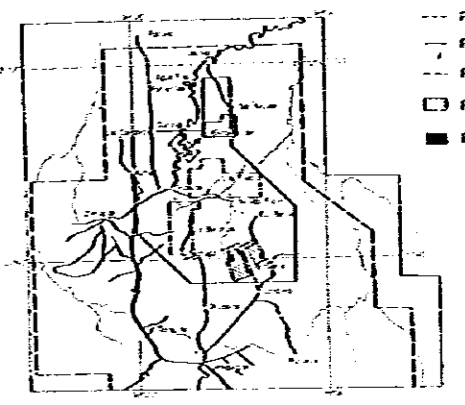
JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983



0 20 40 60 80 100
1 : 1,000

GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II
GEOCHEMICAL Au DISTRIBUTION
OF THE TRENCH LINES

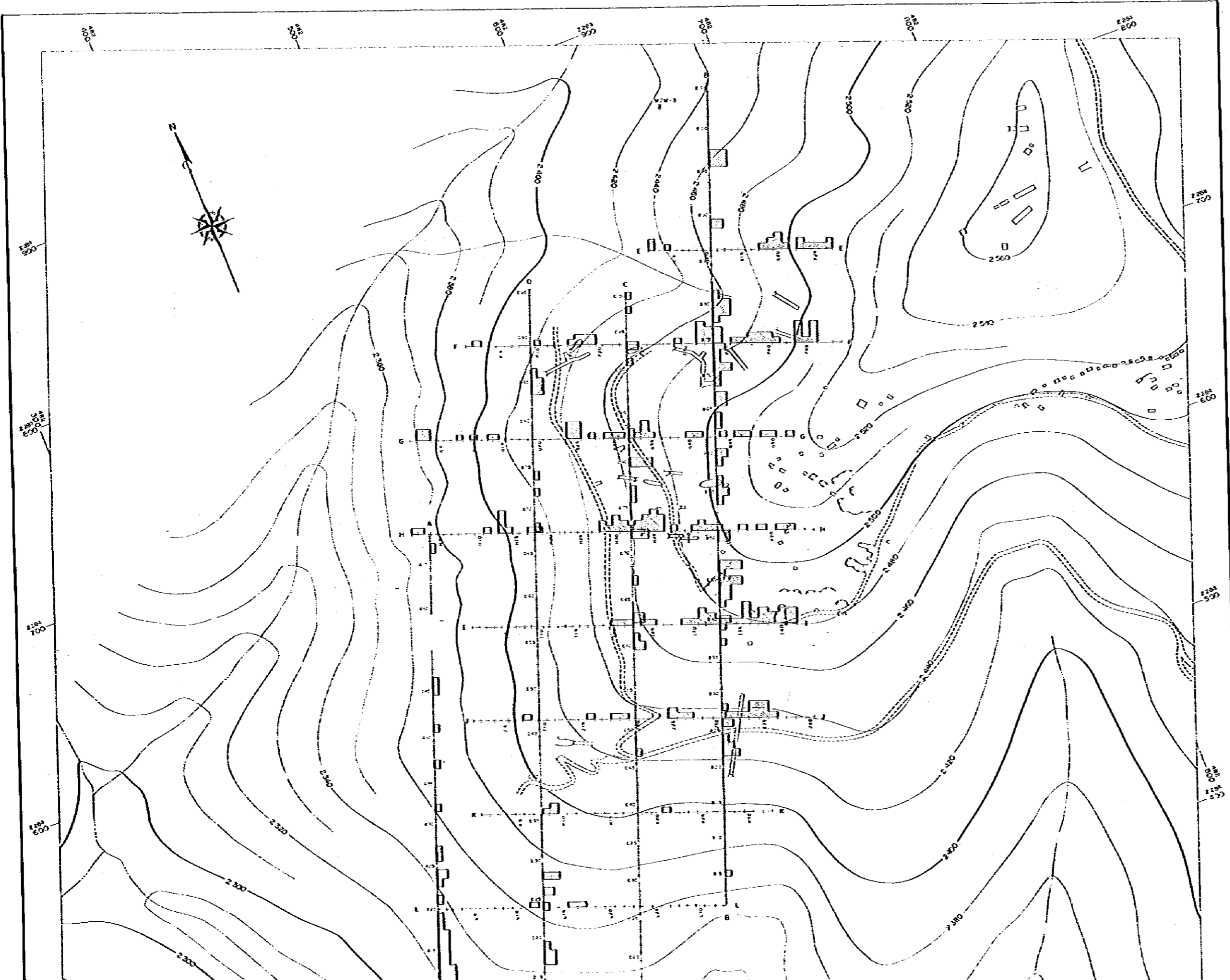
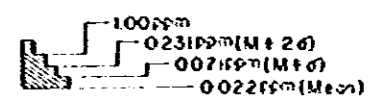
Scale 1 : 1,000

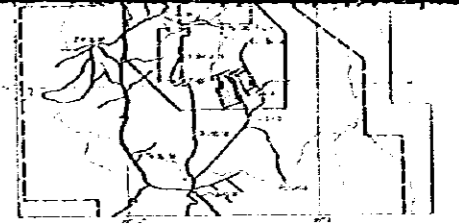
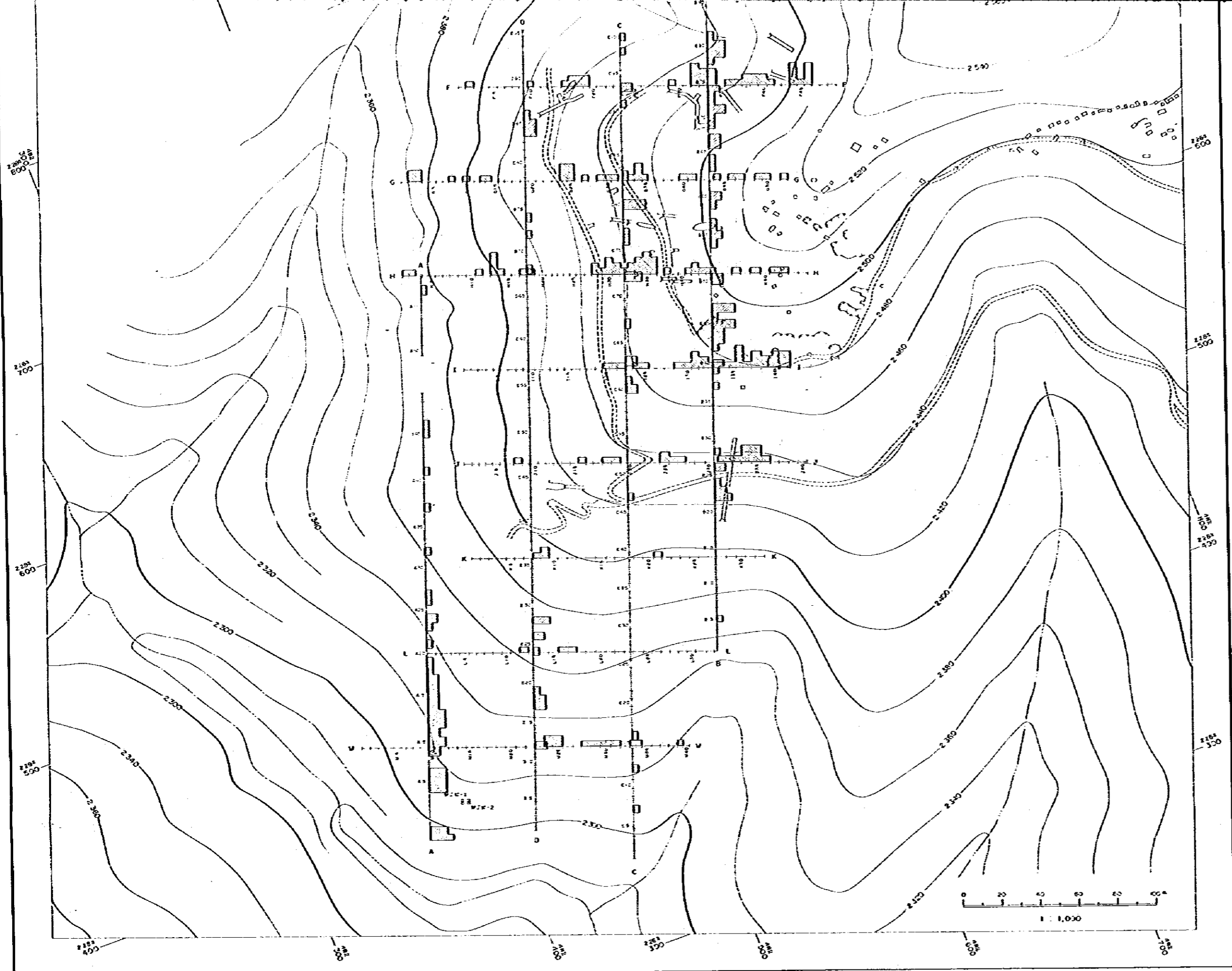


JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

LEGEND

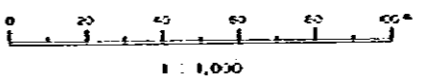
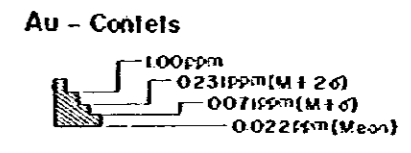
Au - Contets





JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

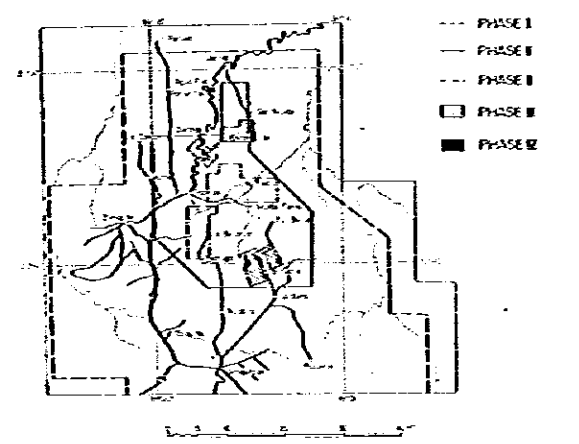
LEGEND



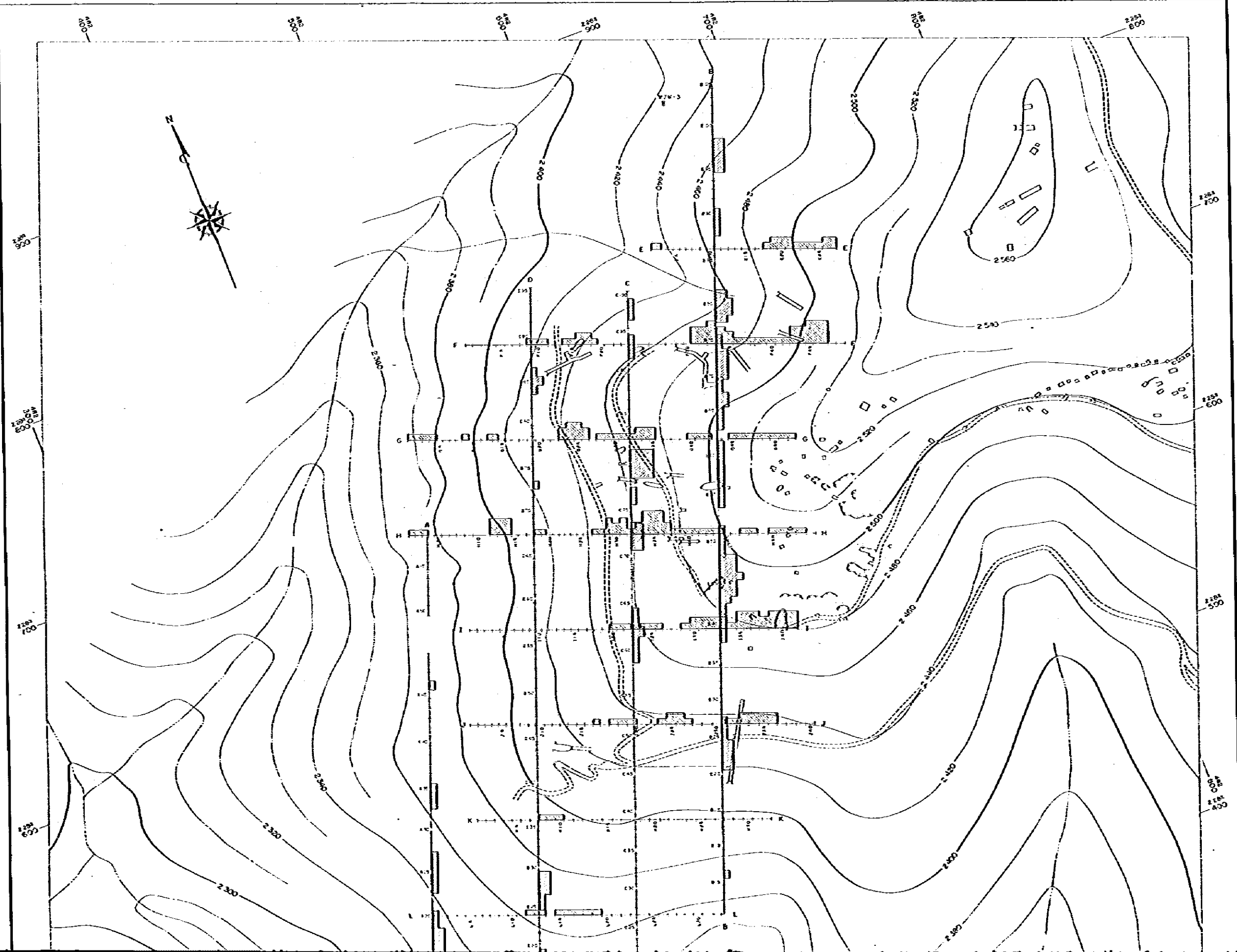
GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE II

GEOCHEMICAL Au DISTRIBUTION OF THE TRENCH LINES BY THREE POINTS RUNNING MEAN VALUES

Scale 1 : 1,000

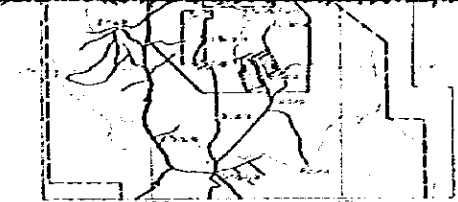
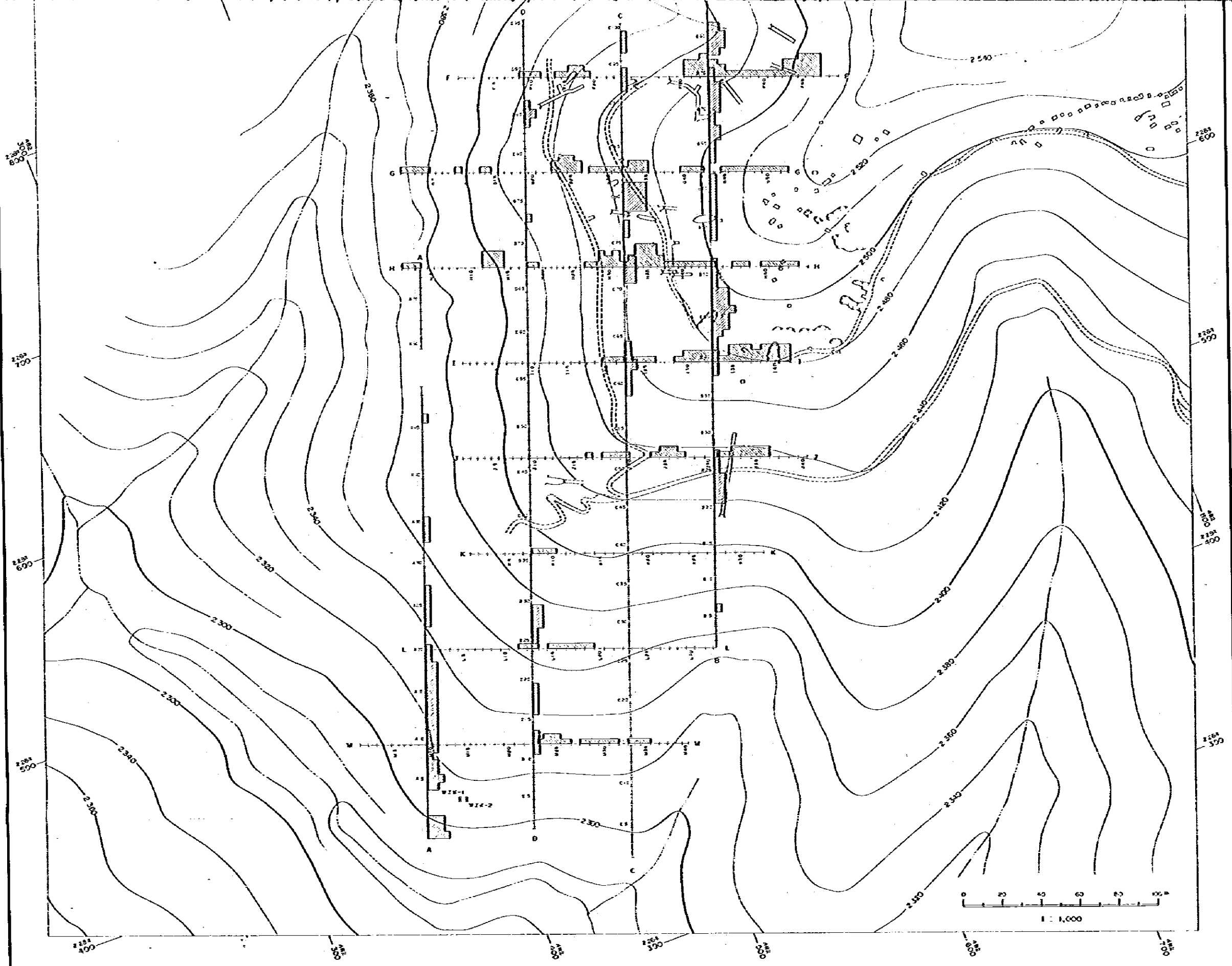


JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1963



LEGEND

Au-3 Points Running Mean
1.00 ppm
0.50 ppm (M + 2σ)

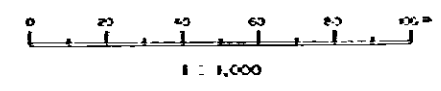


JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

LEGEND

Au-3 Points Running Mean

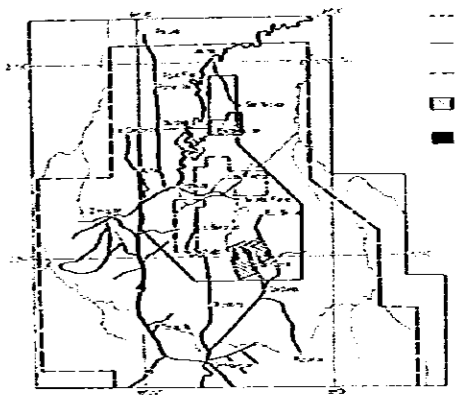
- 1.00 ppm
- 0.30 ppm (M + 2σ)
- 0.09 ppm (M + σ)
- 0.027 ppm (Mean)



GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II

GEOCHEMICAL Ag DISTRIBUTION
OF THE TRENCH LINES

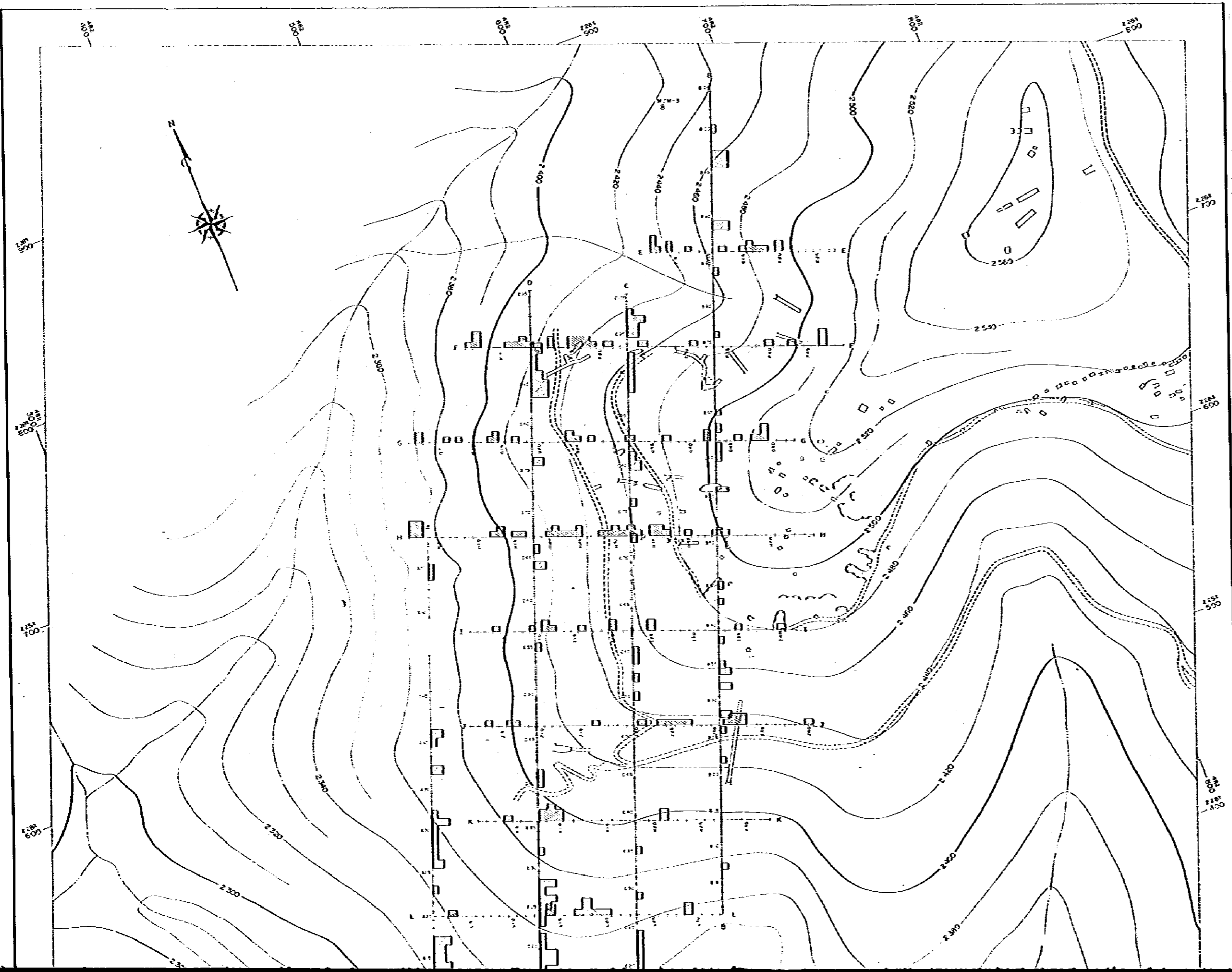
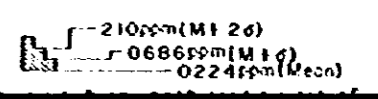
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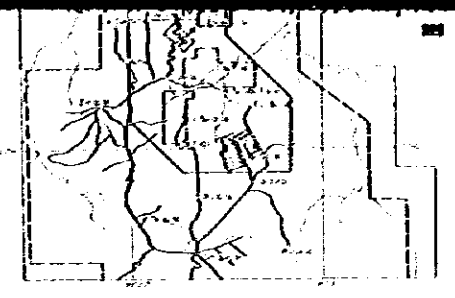
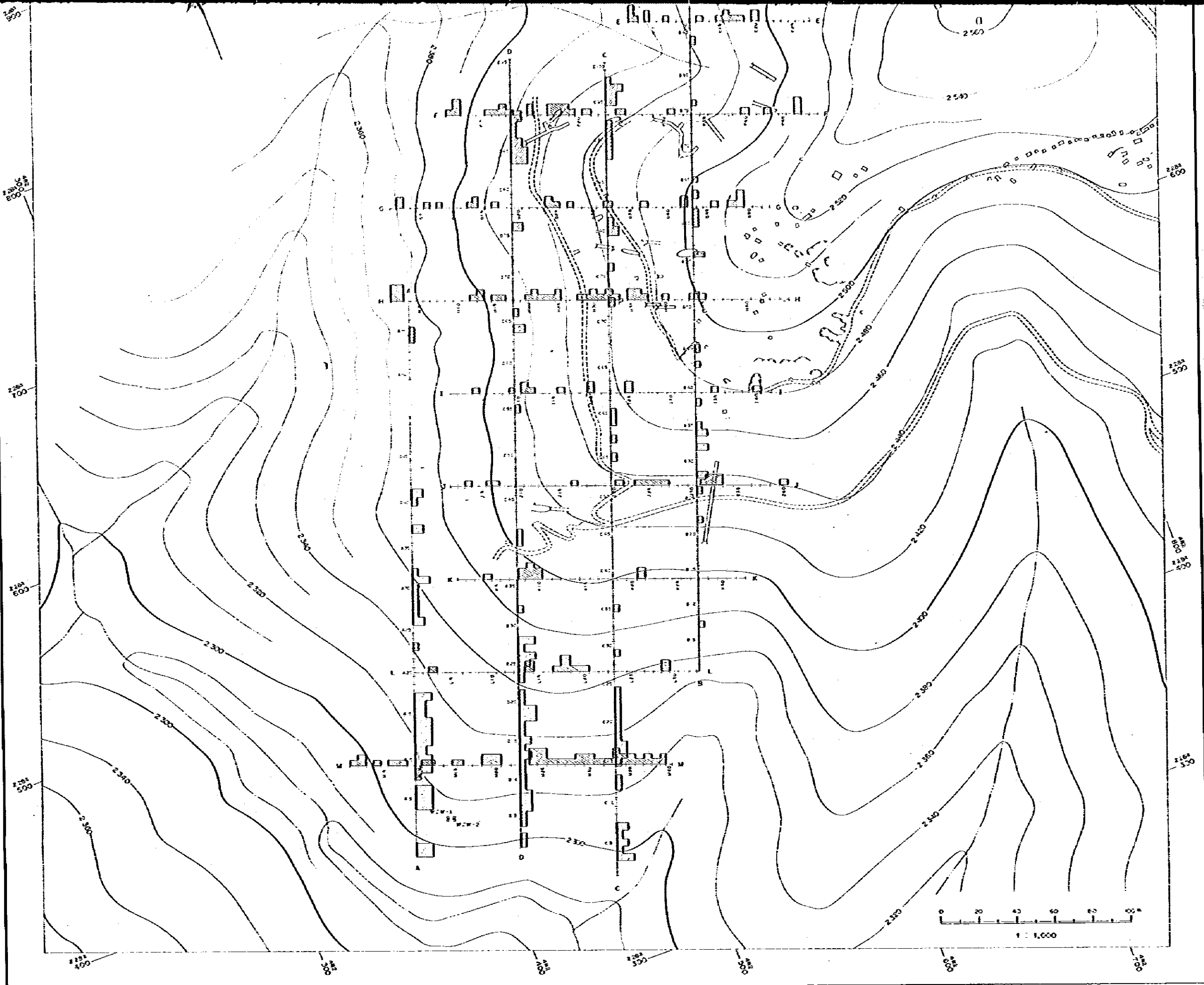


JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

LEGEND




Ag - Contents

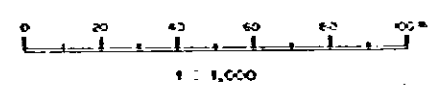




JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL TRAINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

LEGEND

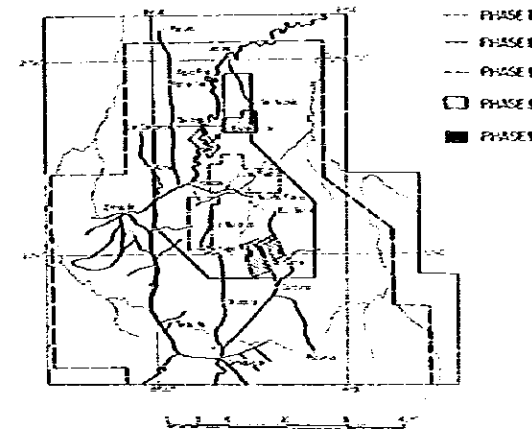
- Ag - Contels
-  210ppm (M ± 2σ)
 -  0686ppm (M ± d)
 -  0224ppm (Mean)



GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II

GEOCHEMICAL Ag DISTRIBUTION
OF THE TRENCH LINES BY
THREE POINTS RUNNING MEAN VALUES

Scale 1 : 1,000

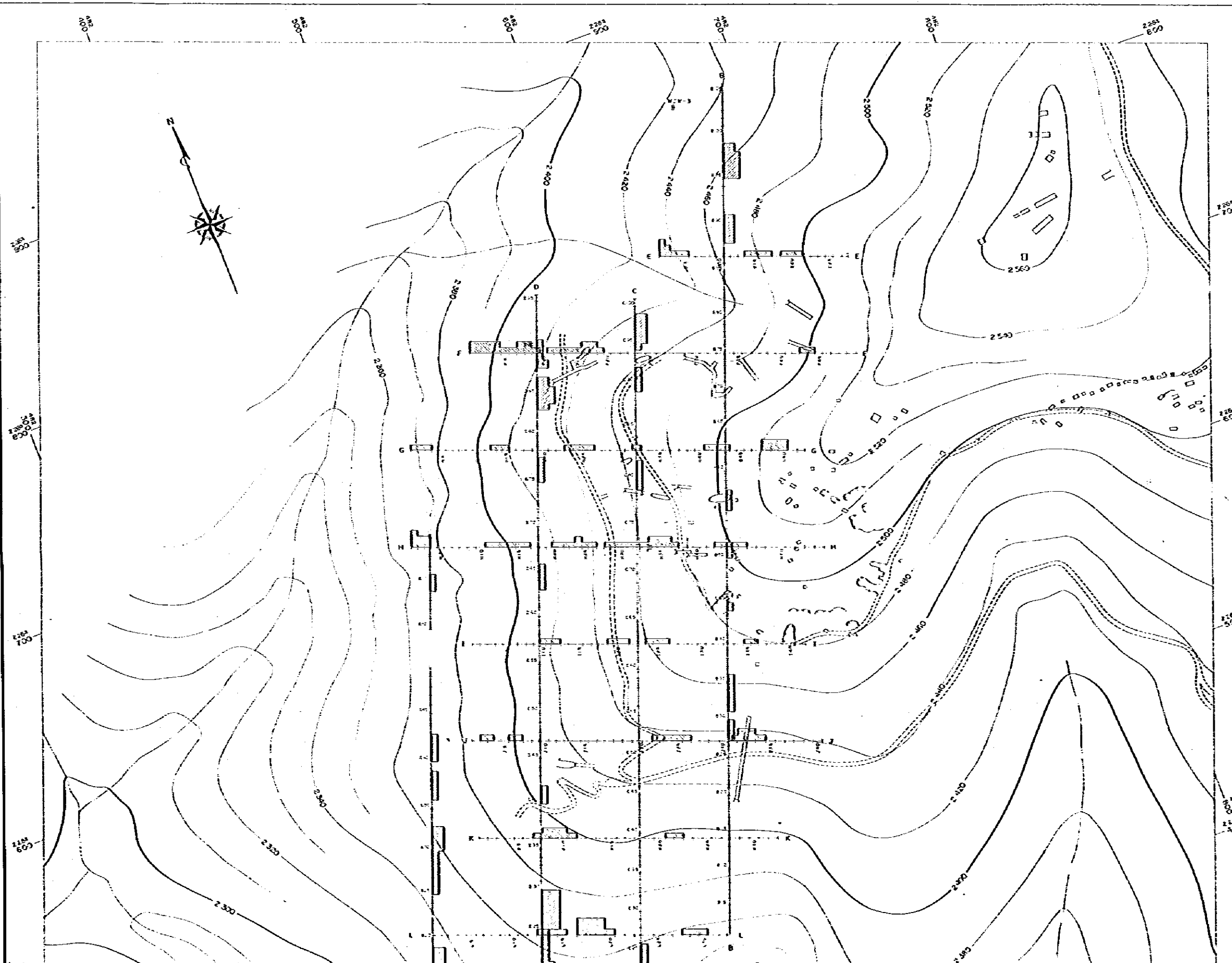


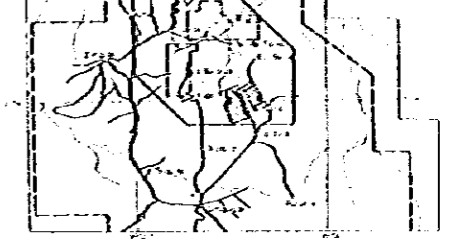
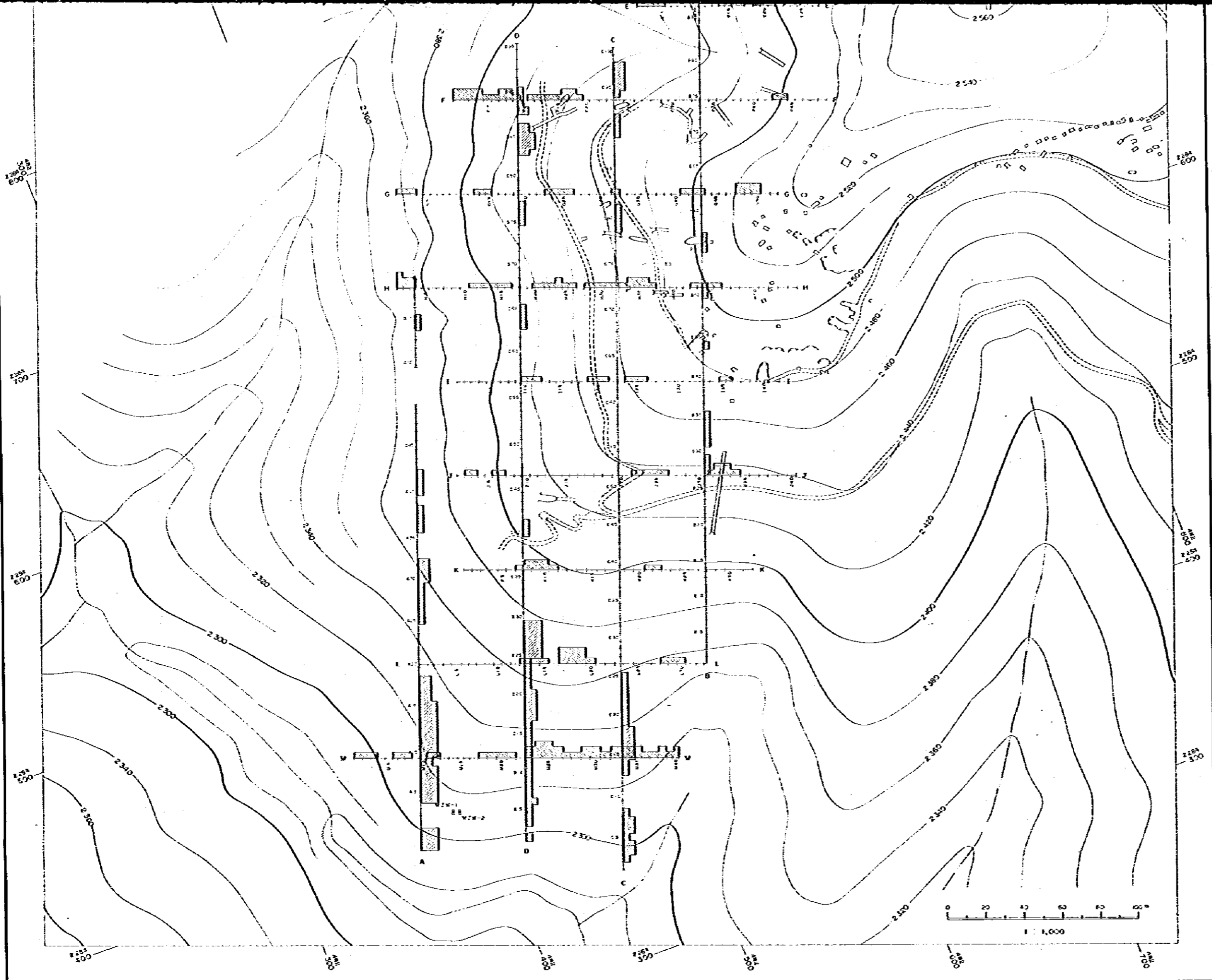
JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

LEGEND

Ag-3 Points Running Mean

-2.2 ppm(M + 2σ)

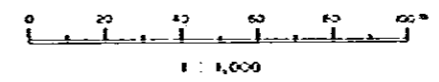




JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

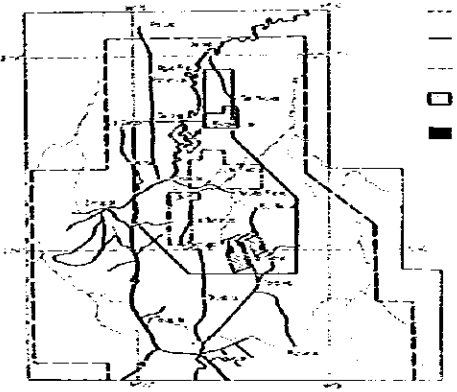
LEGEND

Ag-3 Points Runnig Mean
 2.2 ppm (M + 2σ)
 0.78 ppm (M + σ)
 0.28 ppm (Mean)



GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II
**GEOCHEMICAL Au-ANOMALIES
OF THE SURVEYED AREA**

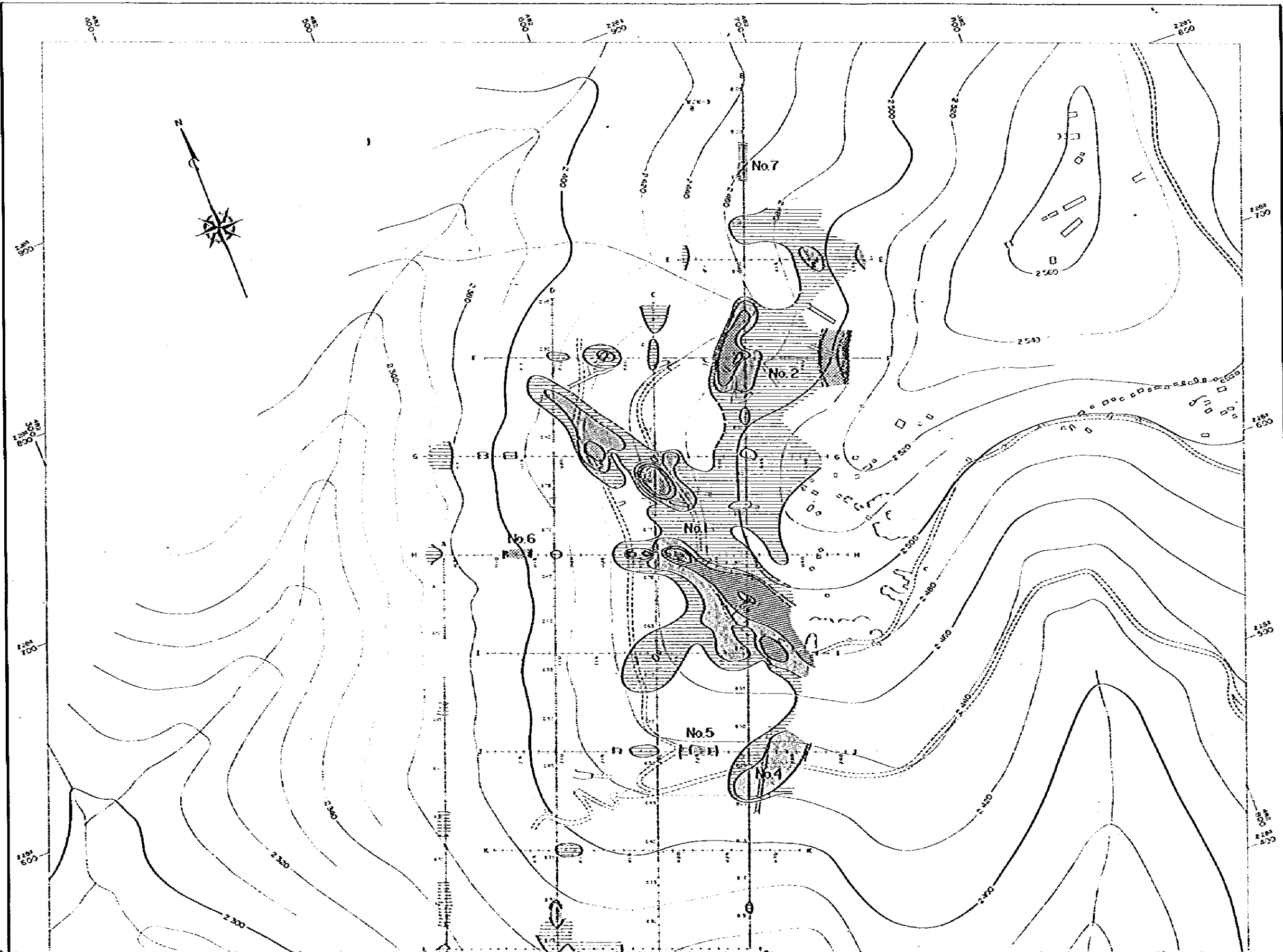
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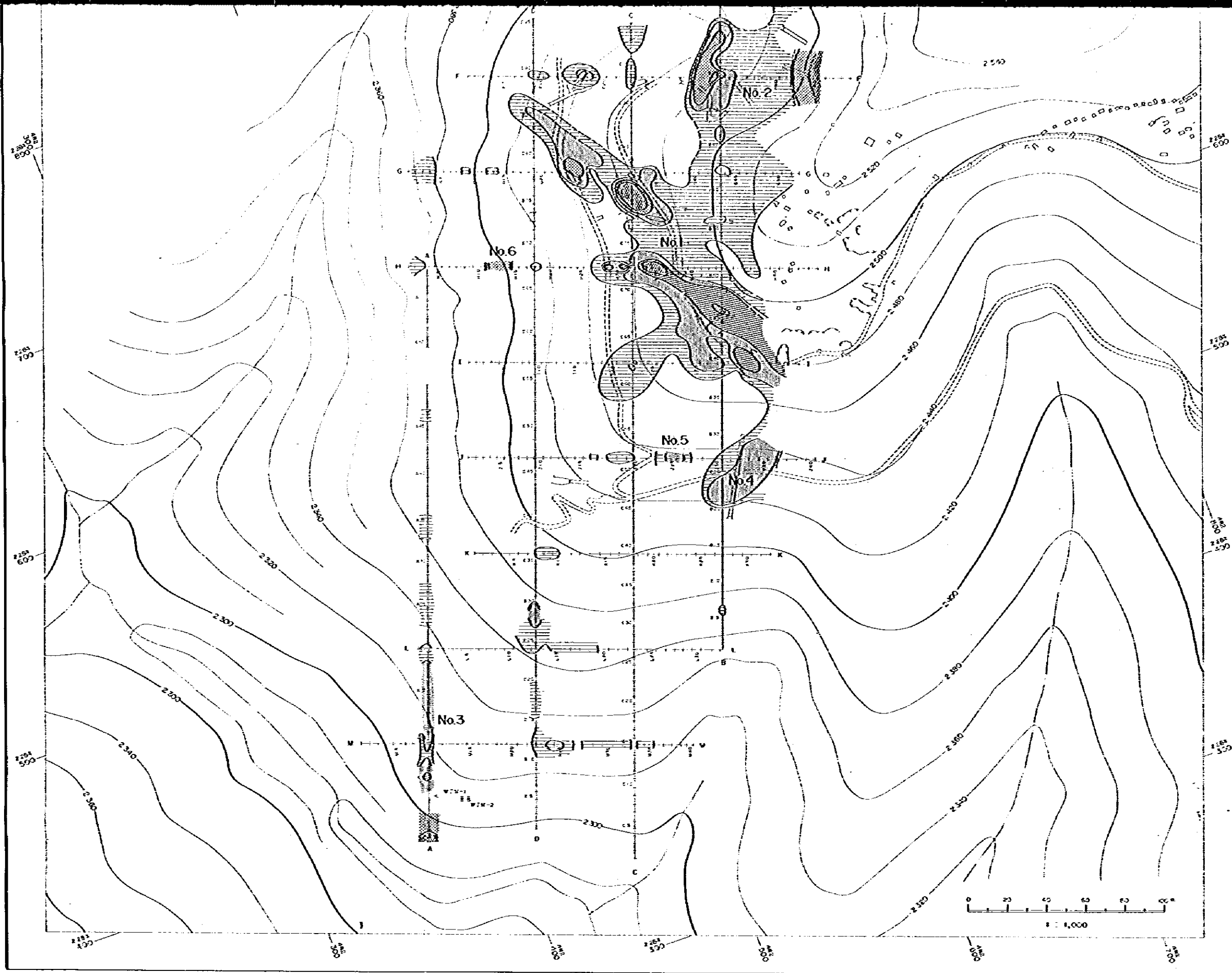


JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

LEGEND

Symbol	Class of anomaly	Contents (in ppm)
	AA	Au ≥ 100
	A	100 > Au ≥ 030
	B	030 > Au ≥ 009
	C	009 > Au ≥ 0027





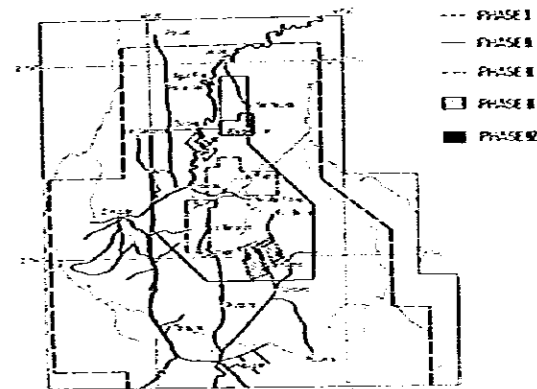

 JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

LEGEND

Symbol	Class of anomaly	Contents (in ppm)
	AA	$Au \geq 100$
	A	$100 > Au \geq 030$
	B	$030 > Au \geq 009$
	C	$009 > Au \geq 0027$

GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II
GEOCHEMICAL Ag-ANOMALIES
OF THE SURVEYED AREA

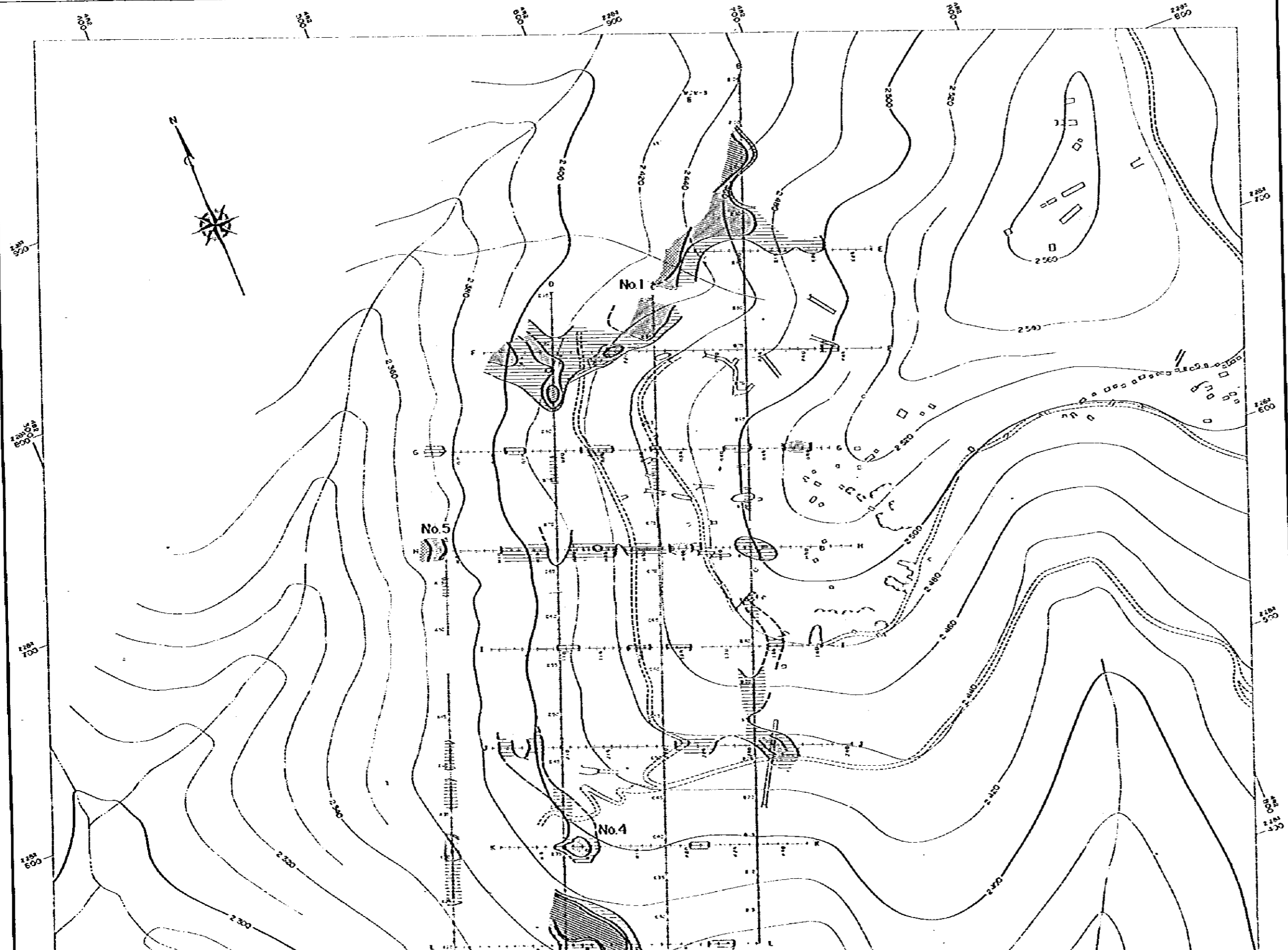
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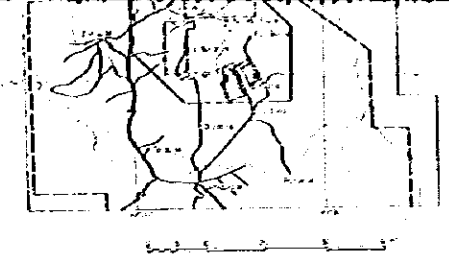
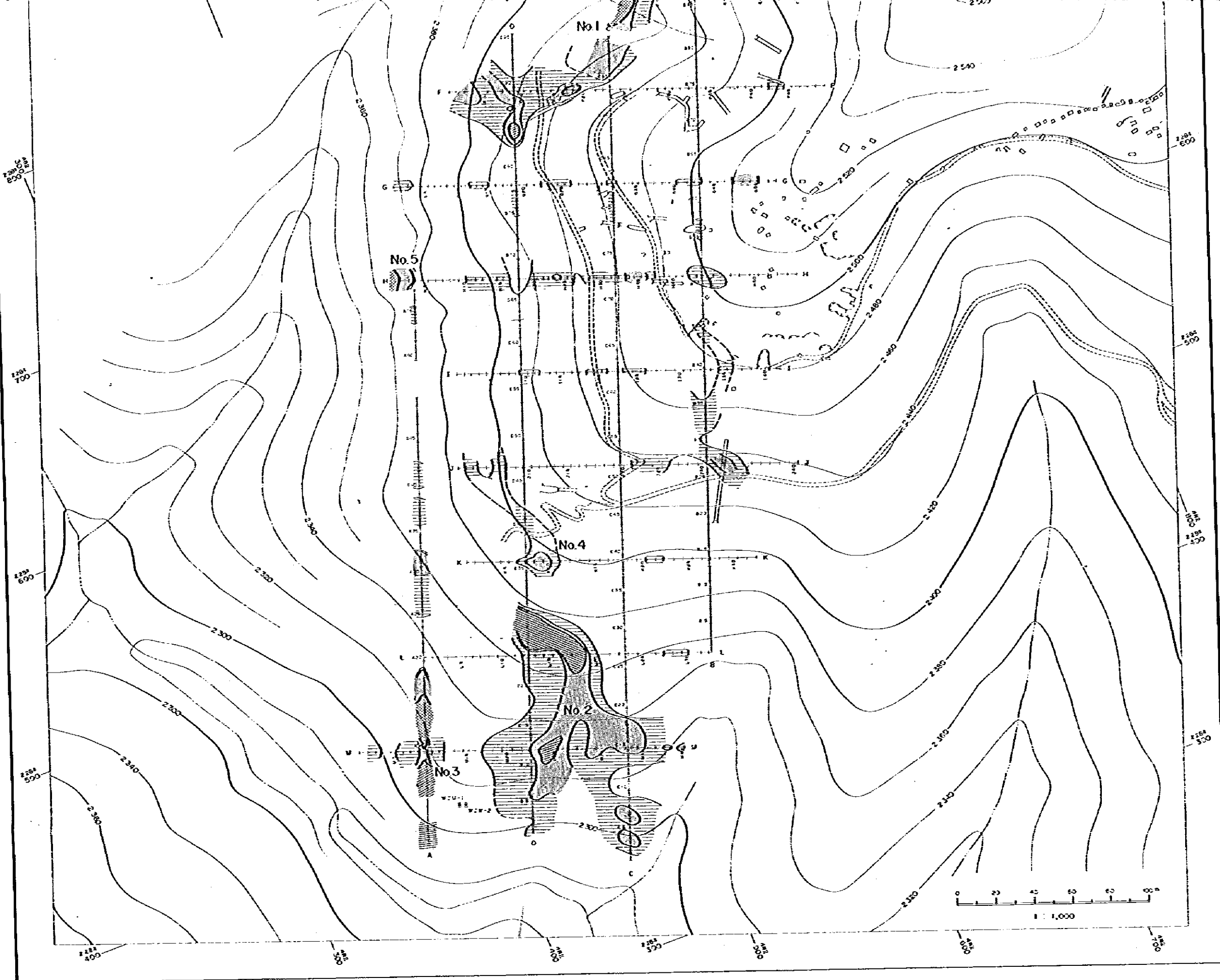


JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

LEGEND

Symbol	Class of anomaly	Contents (in ppm)
	A	$Ag \geq 2.2$
	B	$2.2 > Ag \geq 0.78$
	C	$0.78 > Ag \geq 0.28$





JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983

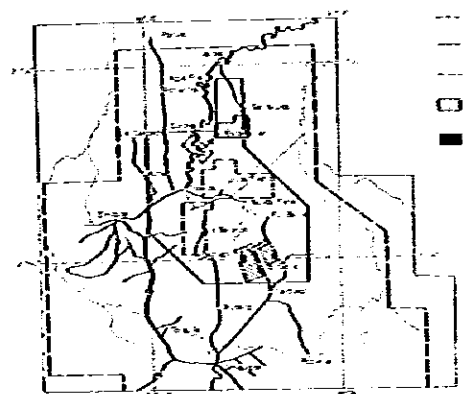
LEGEND

Symbol	Class of anomaly	Contents (in ppm)
	A	$Ag \geq 2.2$
	B	$2.2 > Ag \geq 0.78$
	C	$0.78 > Ag \geq 0.28$

GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE IV

GEOCHEMICAL ANOMALIES
OF THE DRILLING HOLES

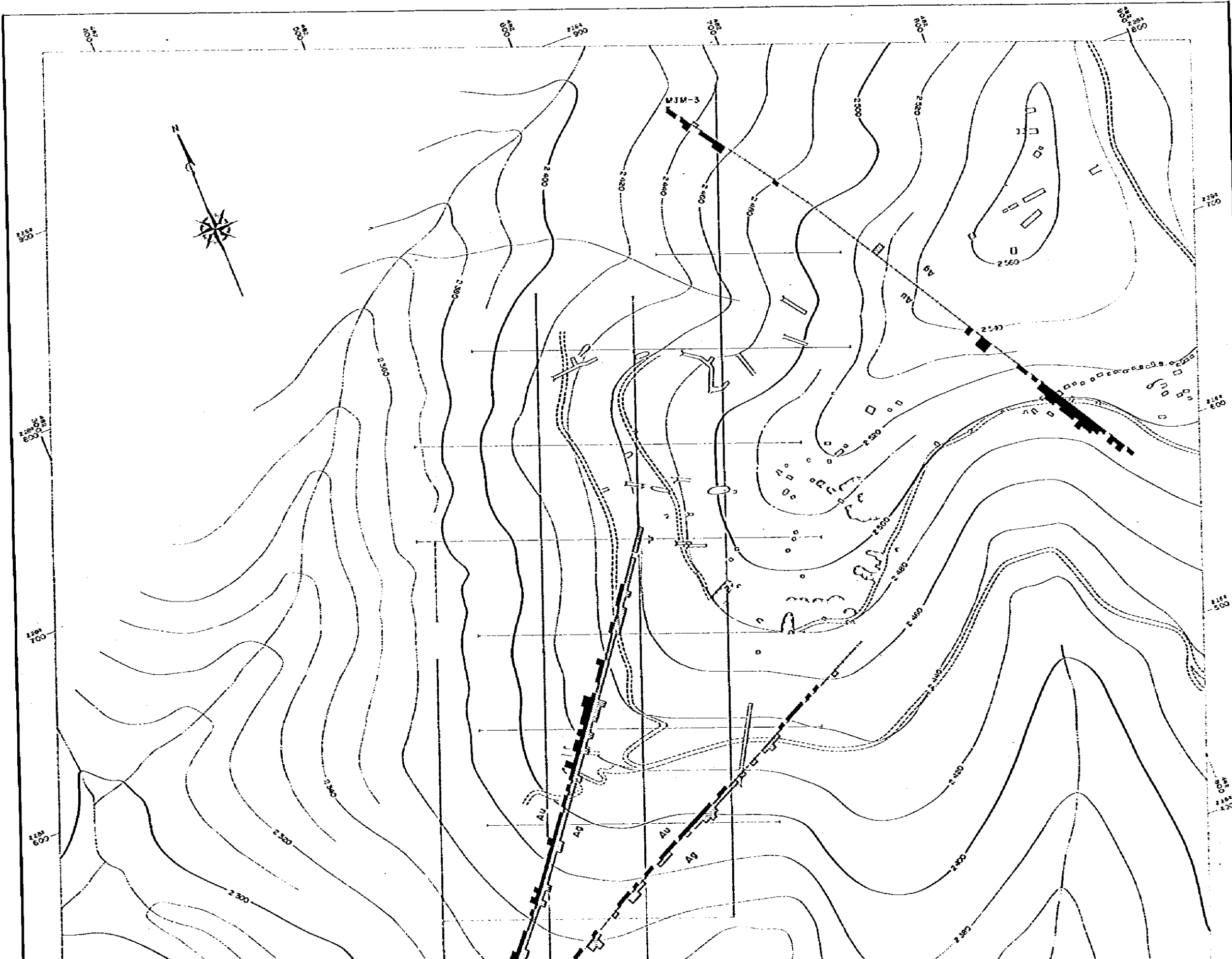
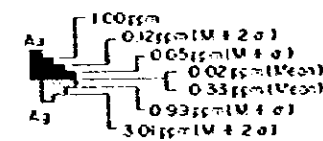
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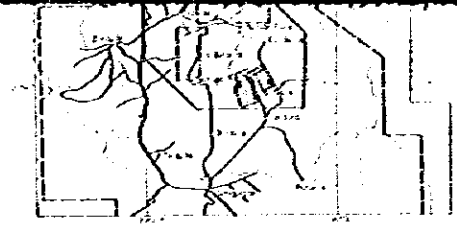


JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

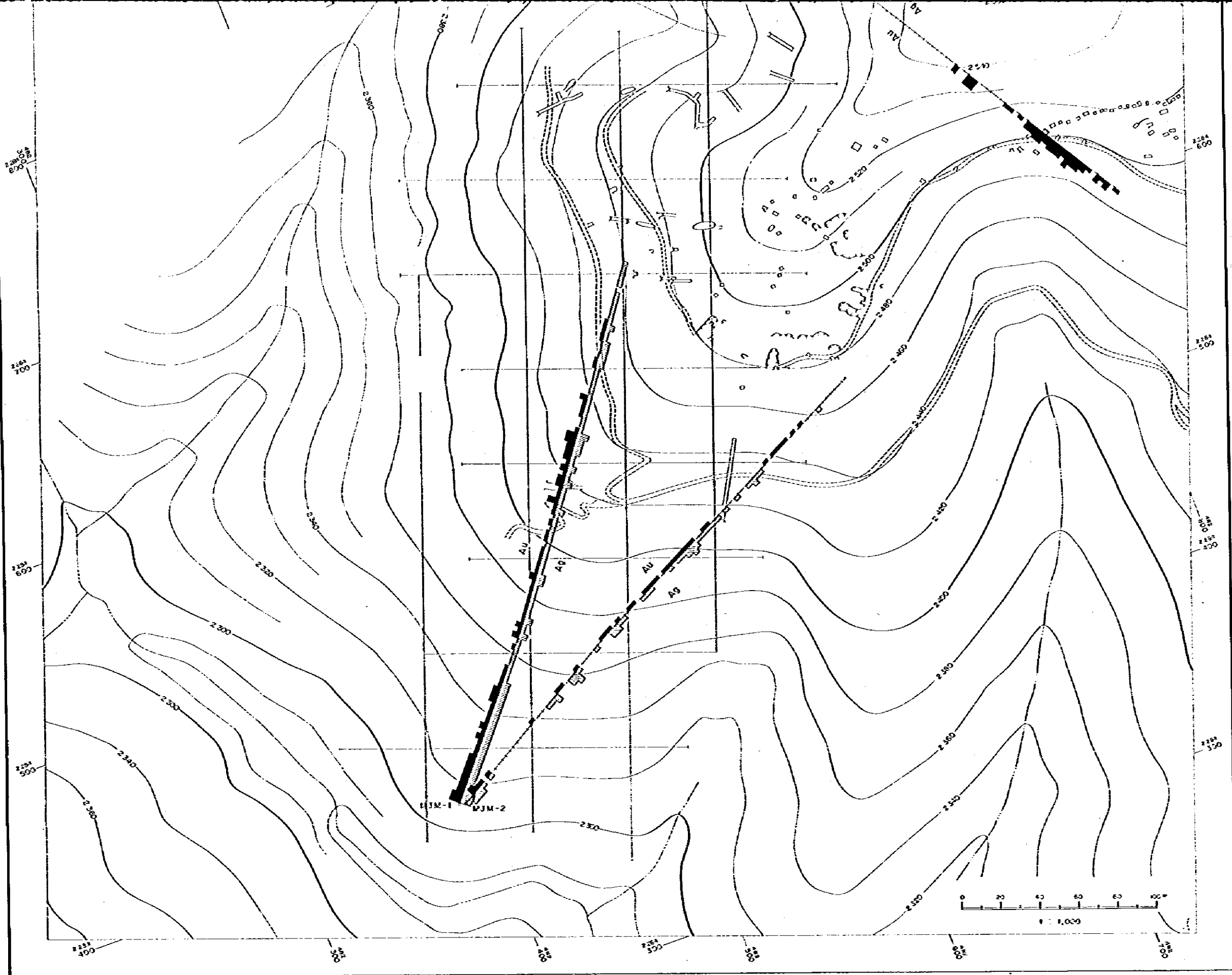
LEGEND

Geochemical Au and Ag anomalies



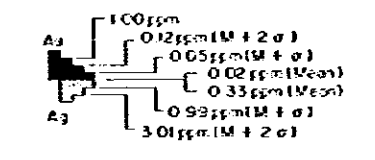


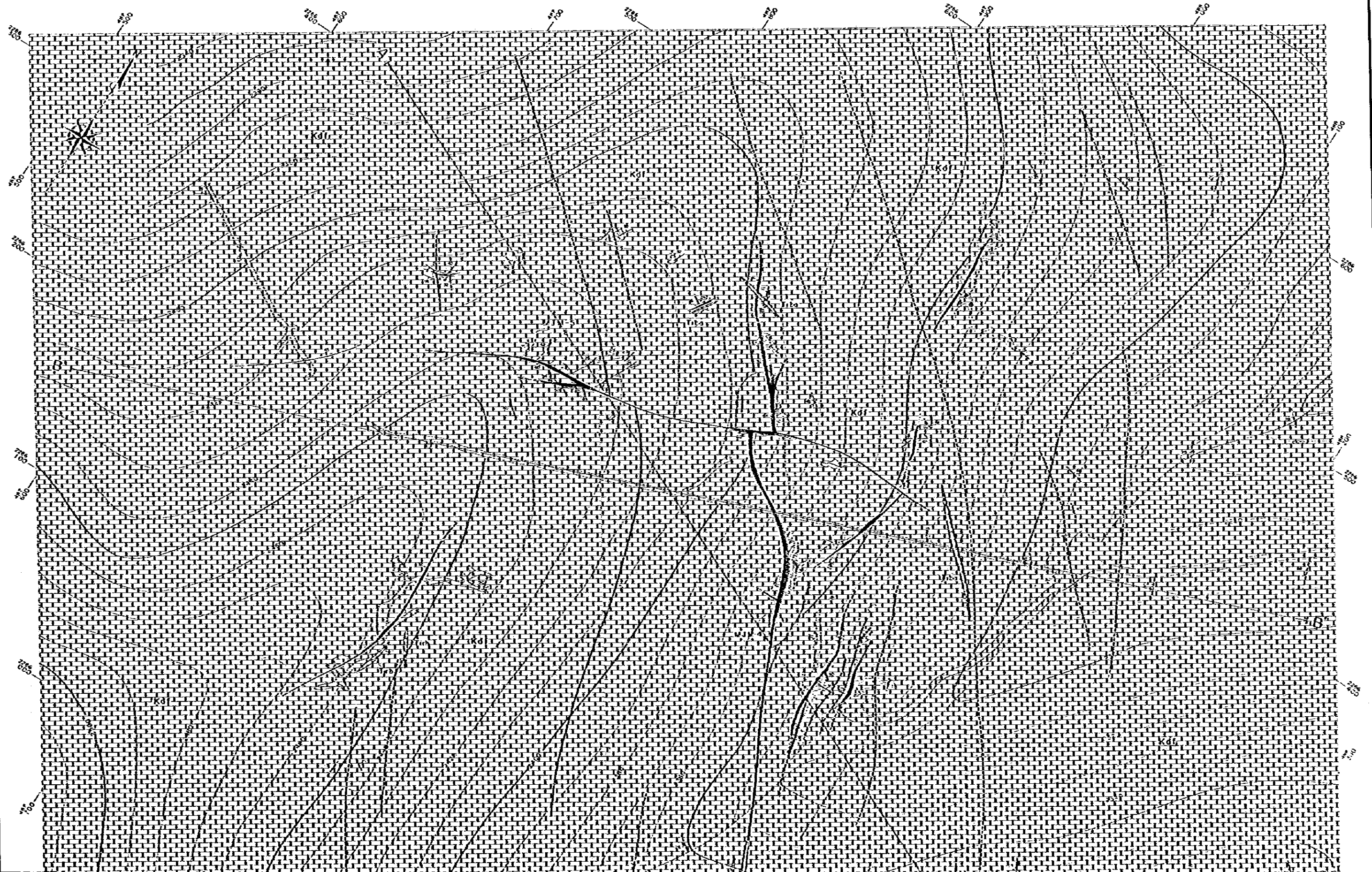
JAPAN INTERNATIONAL COOPERATION AGENCY AND
 METAL MINING AGENCY OF JAPAN
 IN COLLABORATION WITH
 CONSEJO DE RECURSOS MINERALES DE MEXICO
 MARCH 1983



LEGEND

Geochemical Au and Ag anomalies





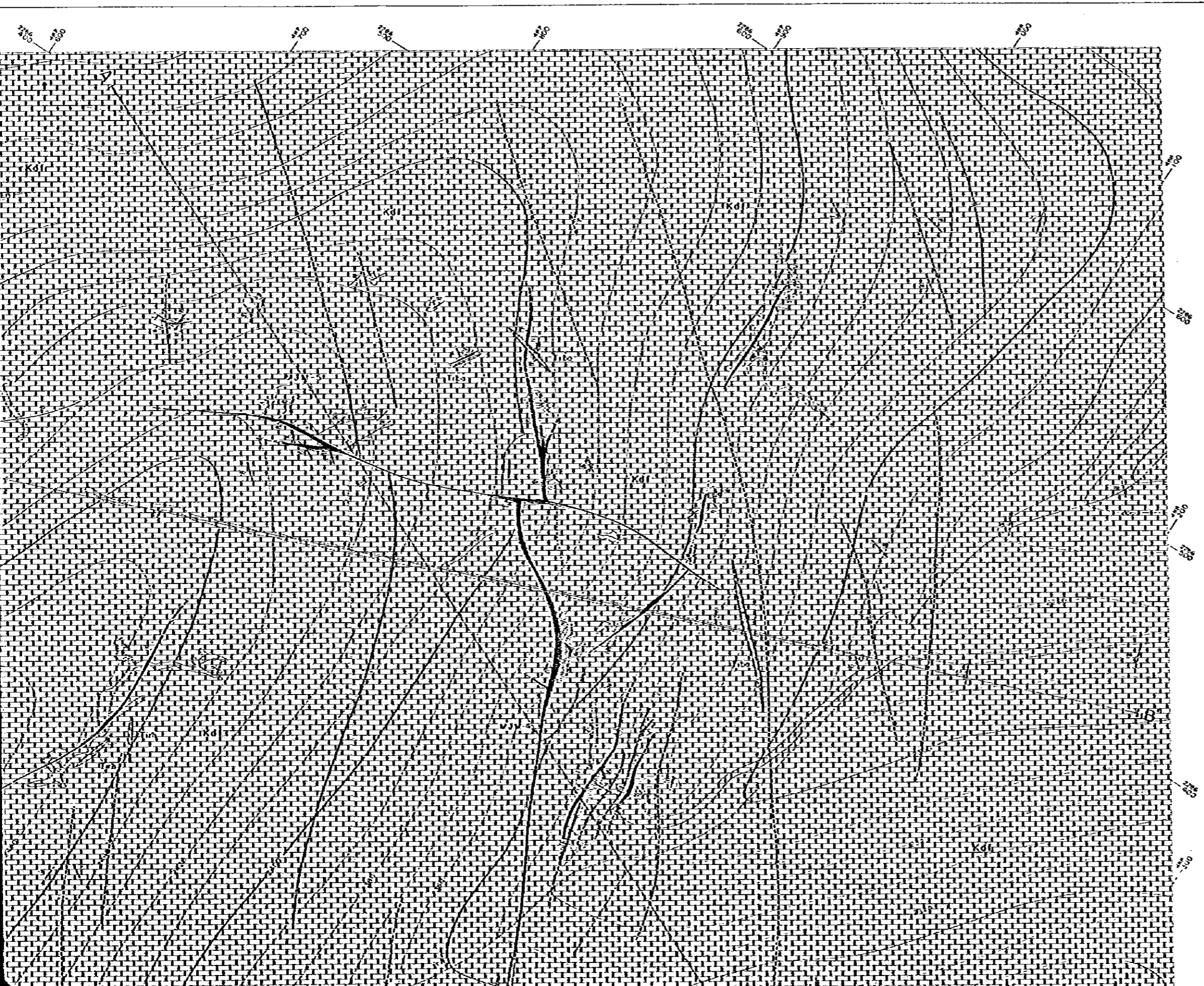
GE

SP

CO

SP

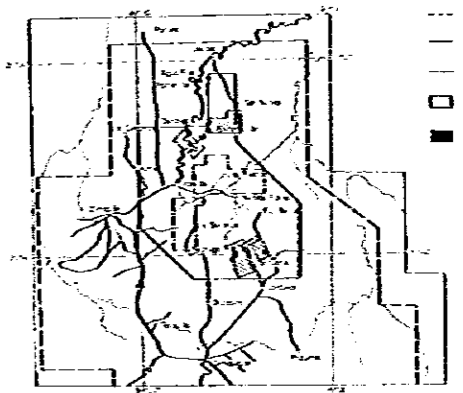
CO



GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II


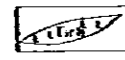
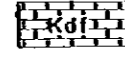
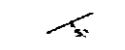
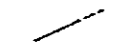
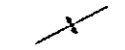
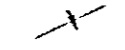
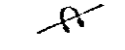



GEOLOGICAL MAP OF THE
PROVIDENCIA AREA

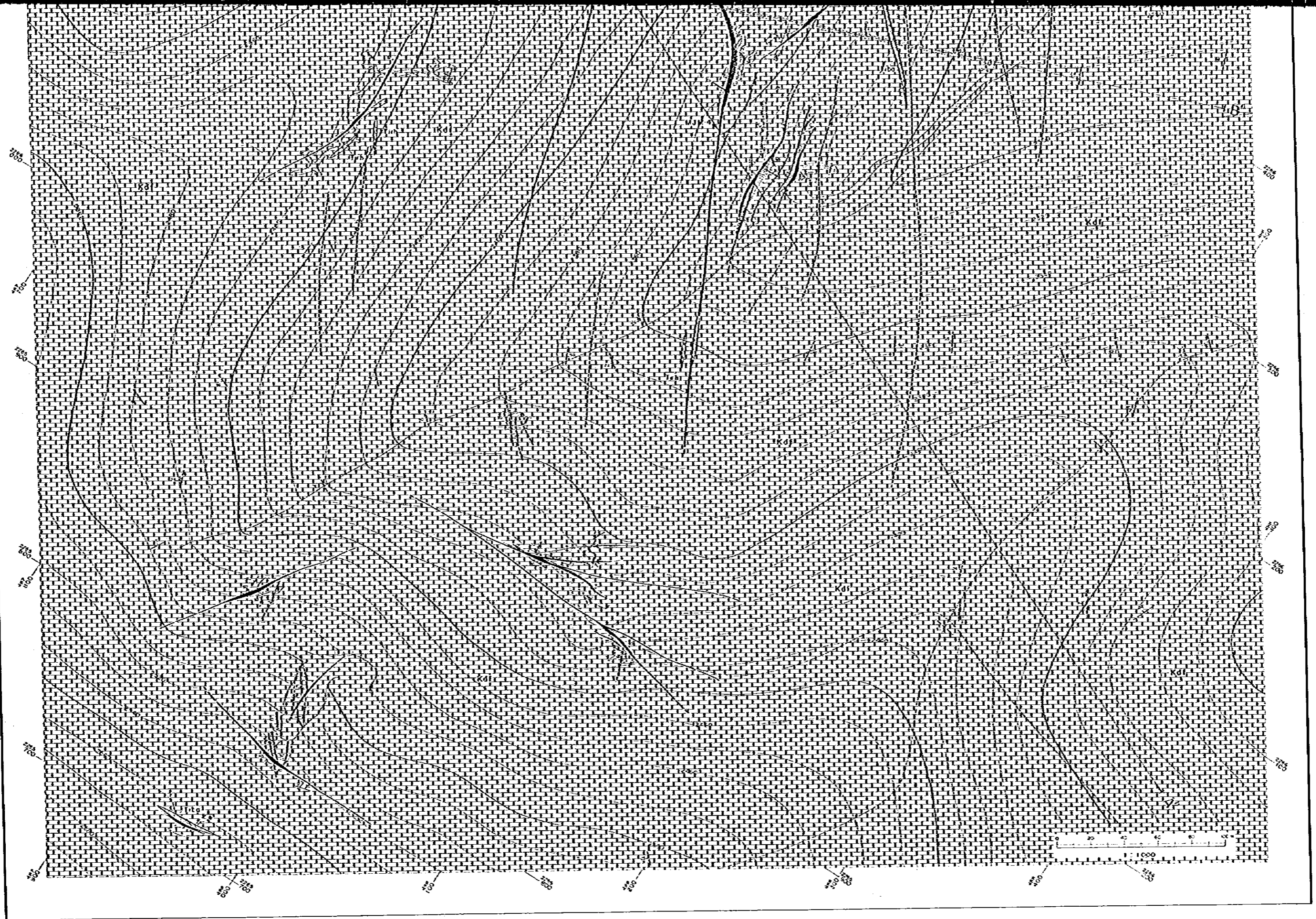
Scale 1 : 1,000



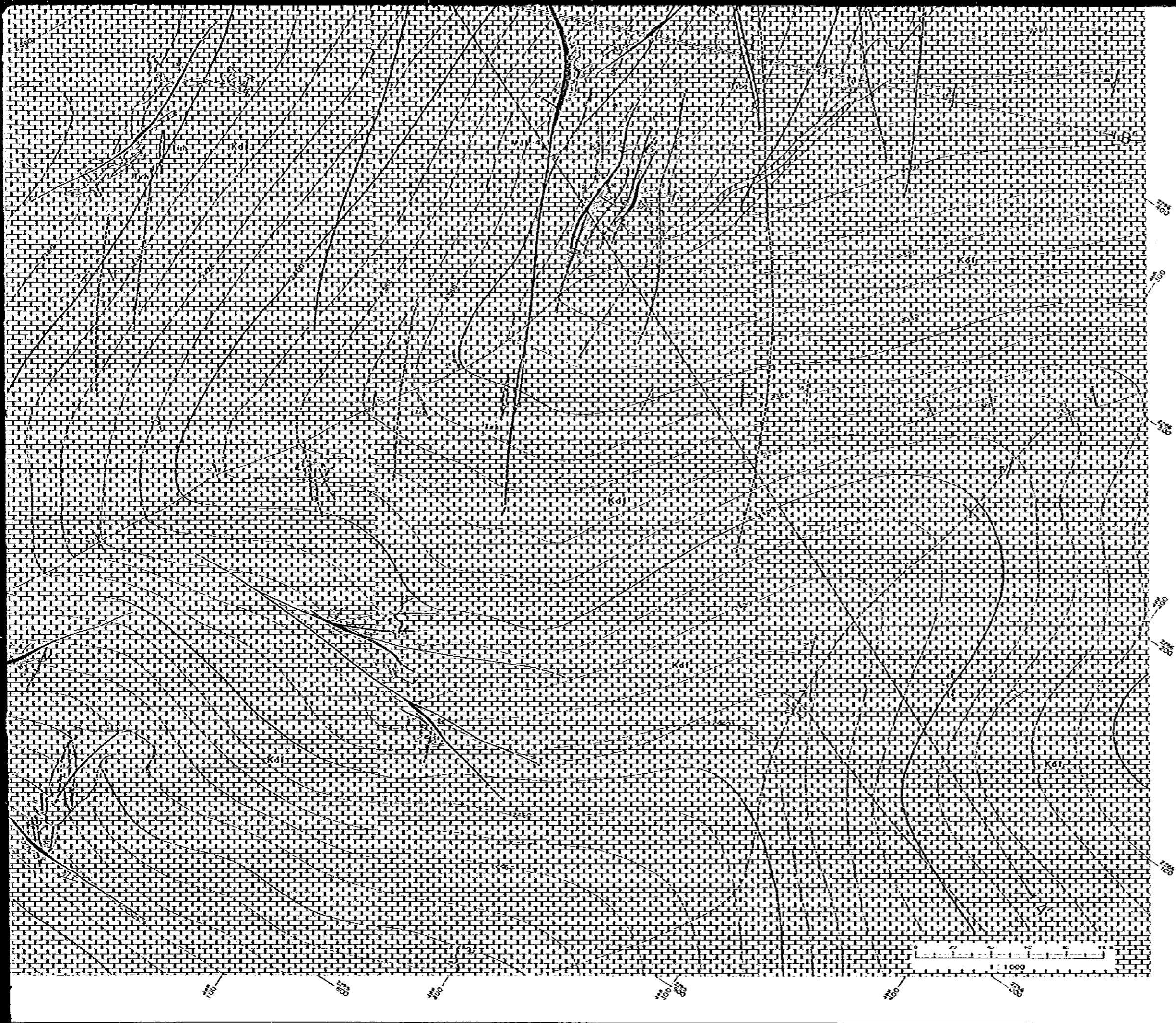
JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

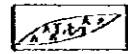

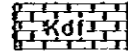
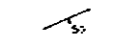
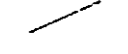
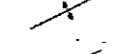
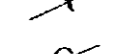
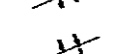



LEGEND

-  Altered argite basalt
-  Rhyolite
-  Alteration of medium bedded limestone, thin bedded calcarenite and black fine sand
-  Strike and dip of strata
-  Fault
-  Anticlinal axis
-  Synclinal axis
-  Overturned anticlinal axis
-  Overturned synclinal axis
-  Oxide ore
-  Geological profile line



Handwritten notes and symbols on the right margin, including a vertical line with tick marks and a small diagram.



-  Altered augite basalt
-  Rhyolite
-  Alternation of medium bedded limestone, thin bedded calcarenite and black flint band
-  Strike and dip of strata
-  Fault
-  Anticlinal axis
-  Synclinal axis
-  Overtured anticlinal axis
-  Overtured synclinal axis
-  Oxide ore
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