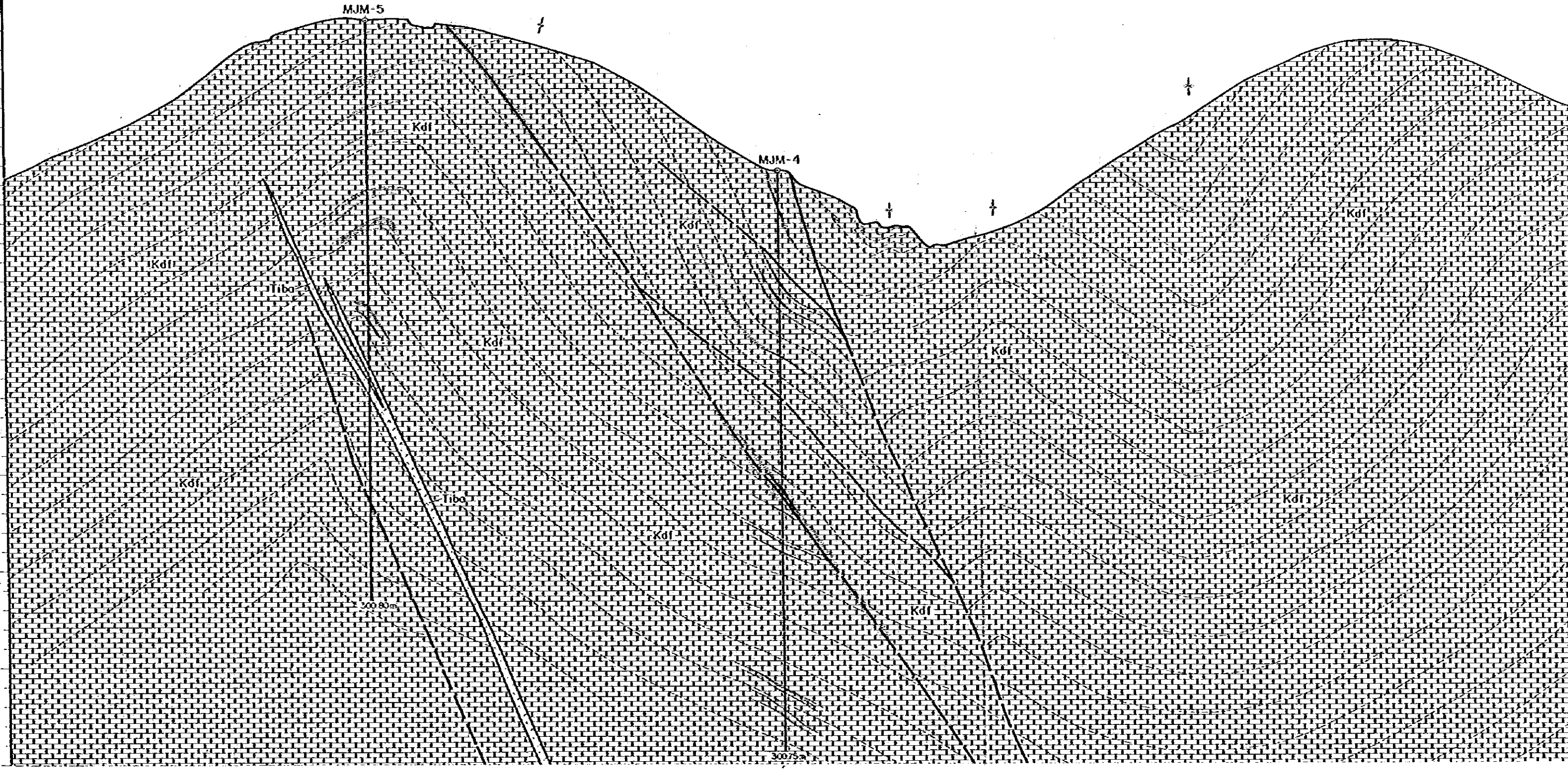
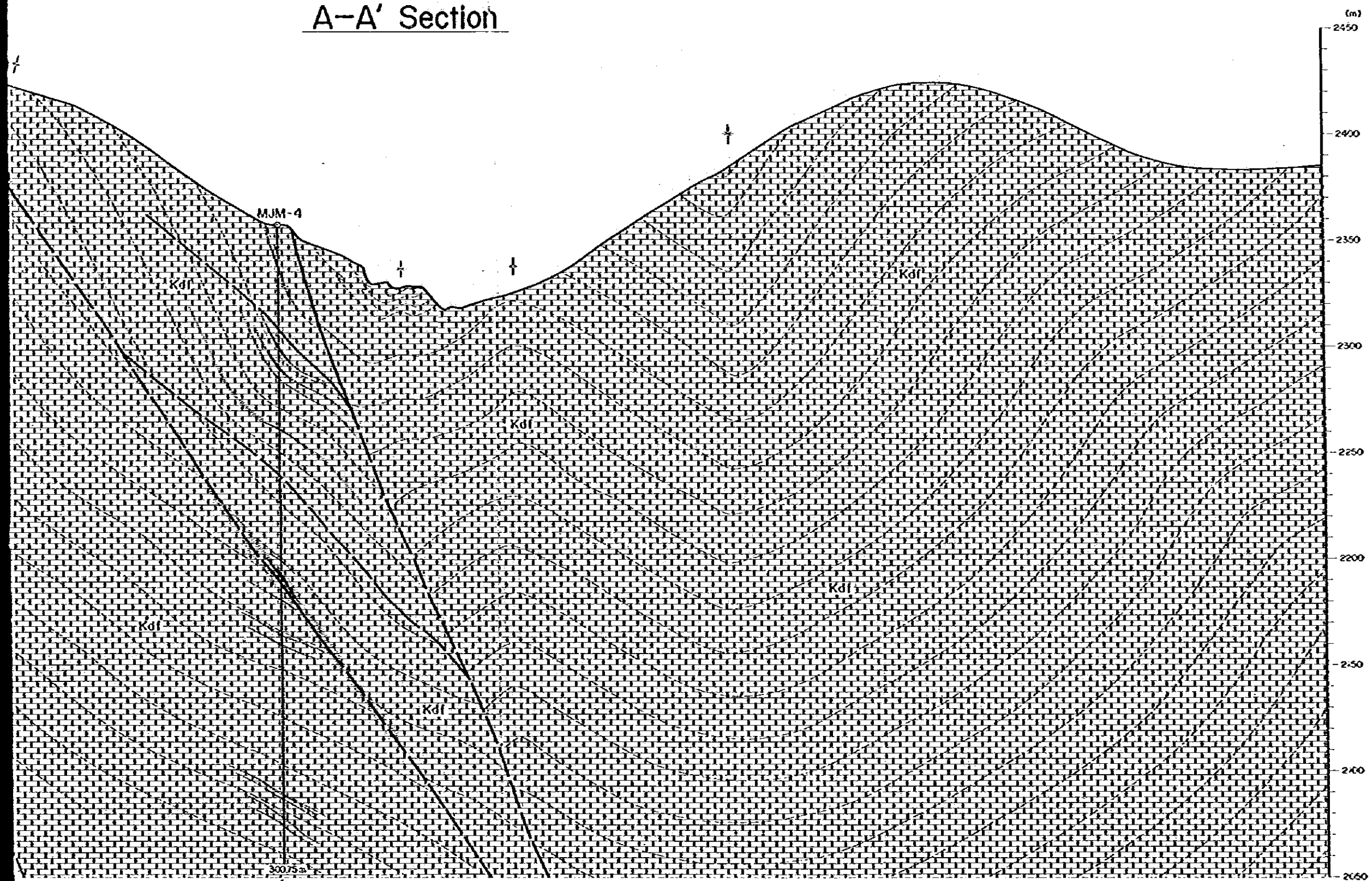


A-A' Section

(m)
2450
2400
2350
2300
2250
2200
2150
2100
2050



A-A' Section

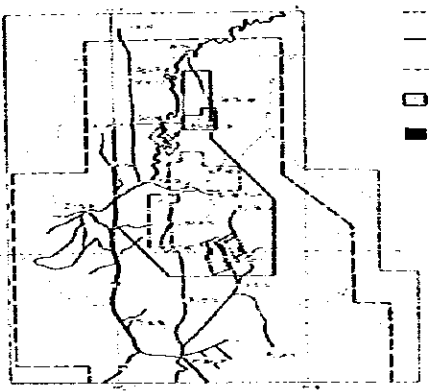


PL 18

GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE IV

GEOLOGICAL PROFILES
OF THE PROVIDENCIA AREA

Scale 1 : 1,000



--- PHASE I

--- PHASE II

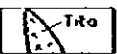



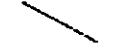
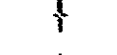
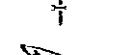

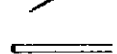


--- PHASE III

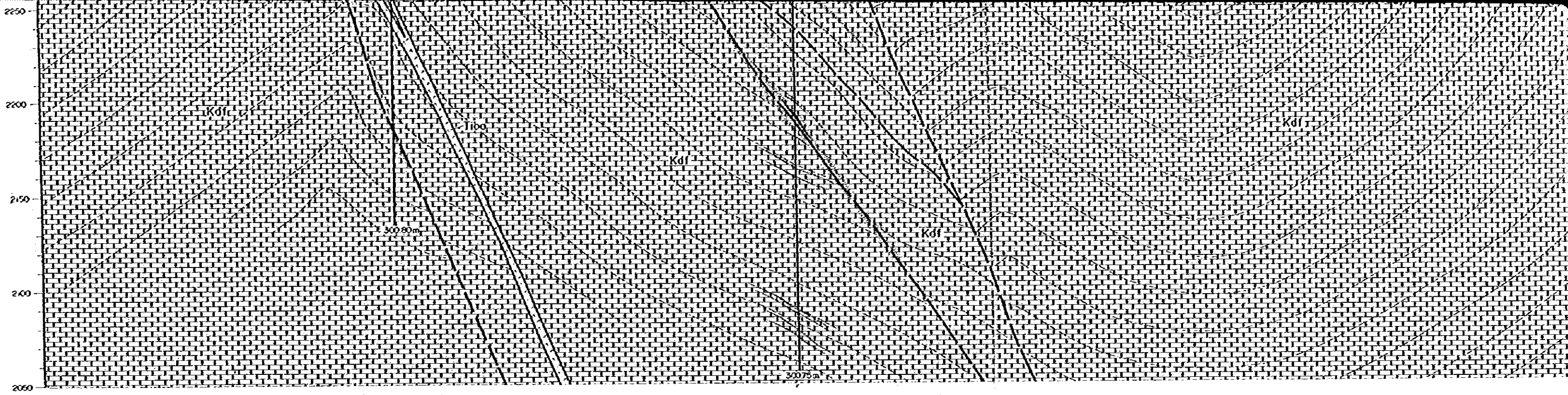
□ PHASE IV

■ PHASE V

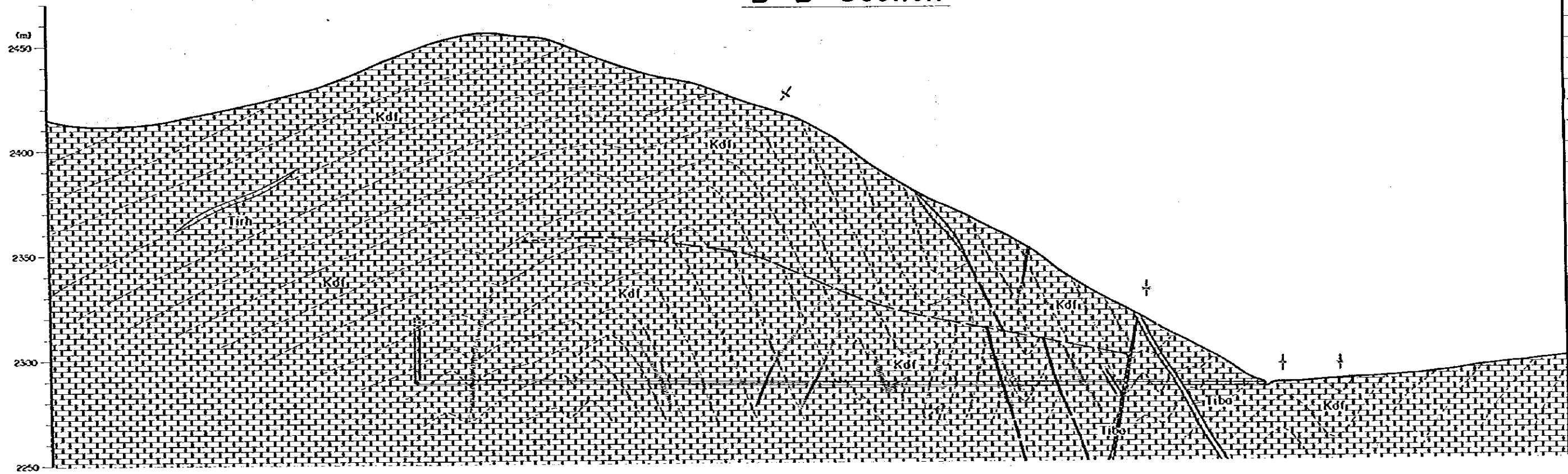
JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

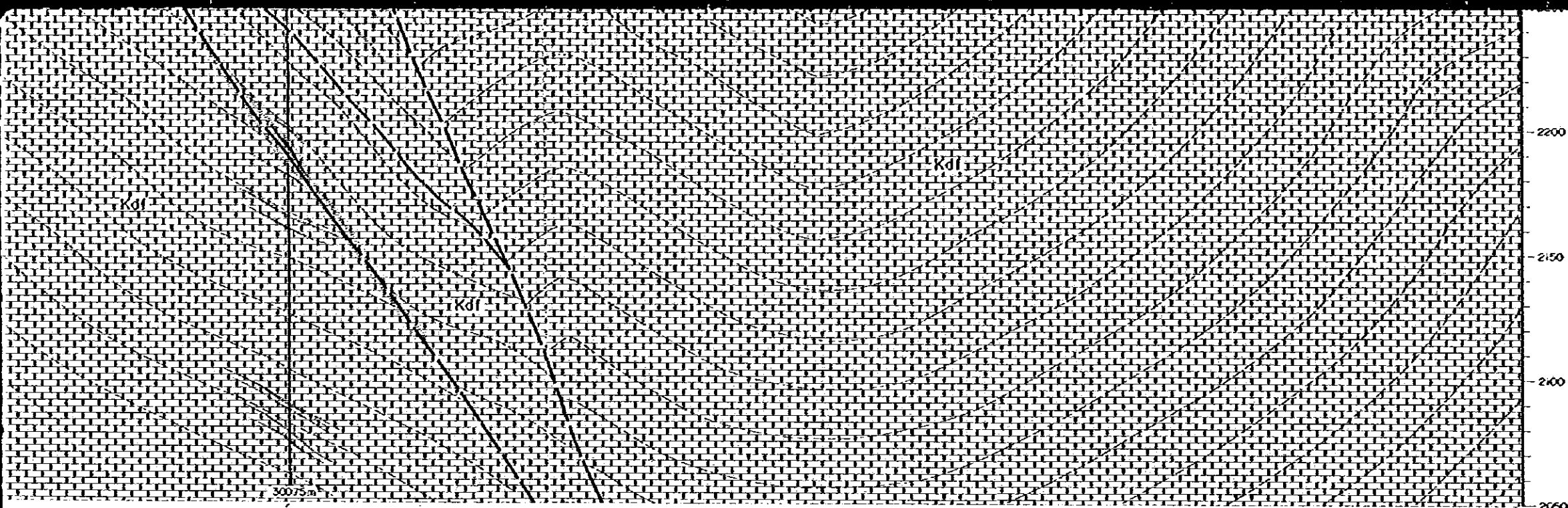
LEGEND

-  Altered oxide basalt
-  Rhyolite
-  Alteration of medium bedded trachyte, thin bedded calcarenite and block first bond.
-  Bedding general trend
-  Fault
-  Anticlinal axis
-  Synclinal axis
-  Fault breccia
-  Oxide ore
-  Tunnel
-  Diamond drilling hole



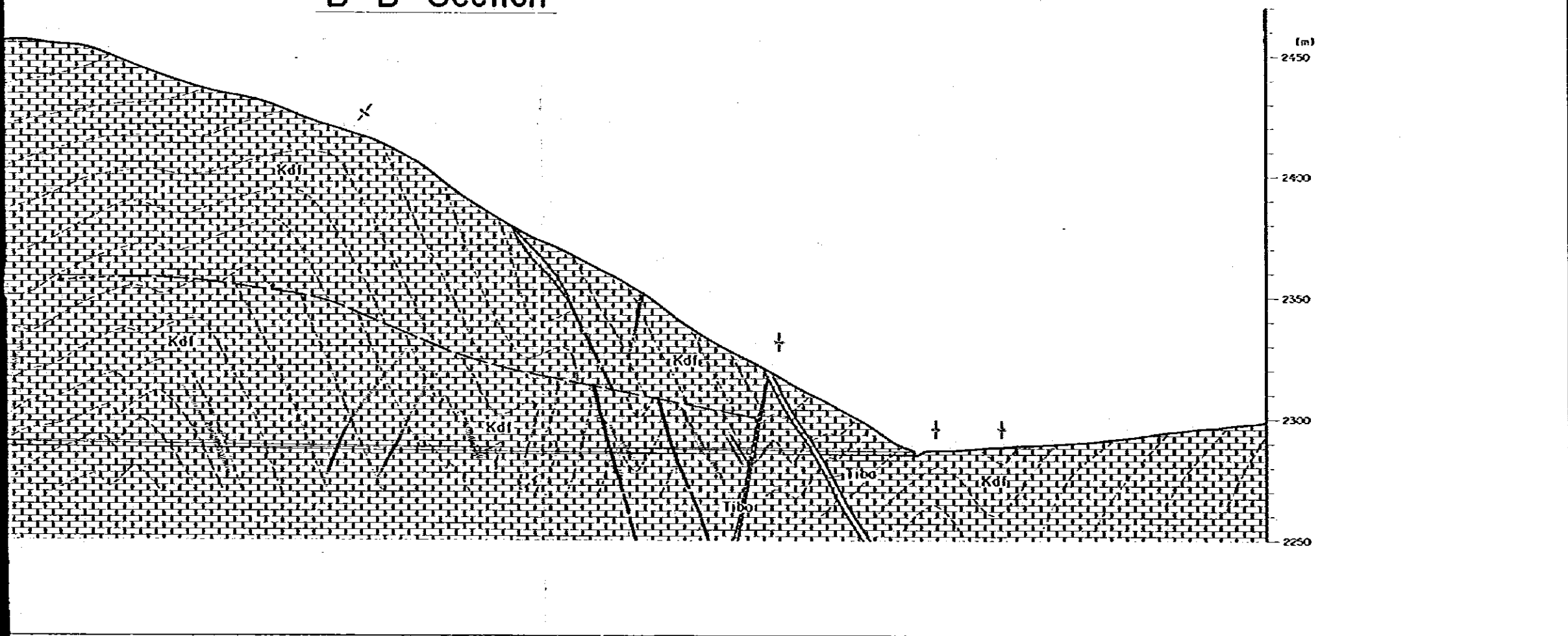
B-B' Section







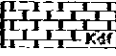


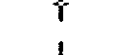


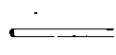


2200
2150
2100
2050

B-B' Section



(m)
2450
2400
2350
2300
2250

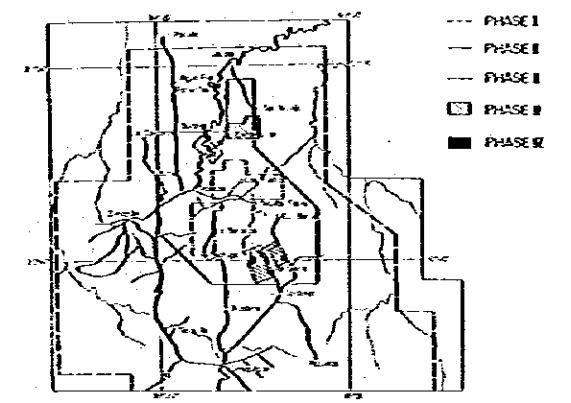
LEGEND

-  Tibo Altered oxide basalt
-  Tzh Rhyolite
-  Kdf Alternation of medium bedded limestone, thin bedded calcarenite and black flint bands.
-  Bedding general trend
-  Fault
-  Anticlinal axis
-  Synclinal axis
-  Fault breccia
-  Oxide ore
-  Tunnel
-  Diamond drilling hole

GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE IX

GEOLOGICAL SKETCH MAP OF OPEN PITS AND TUNNELS IN THE PROVIDENCIA AREA

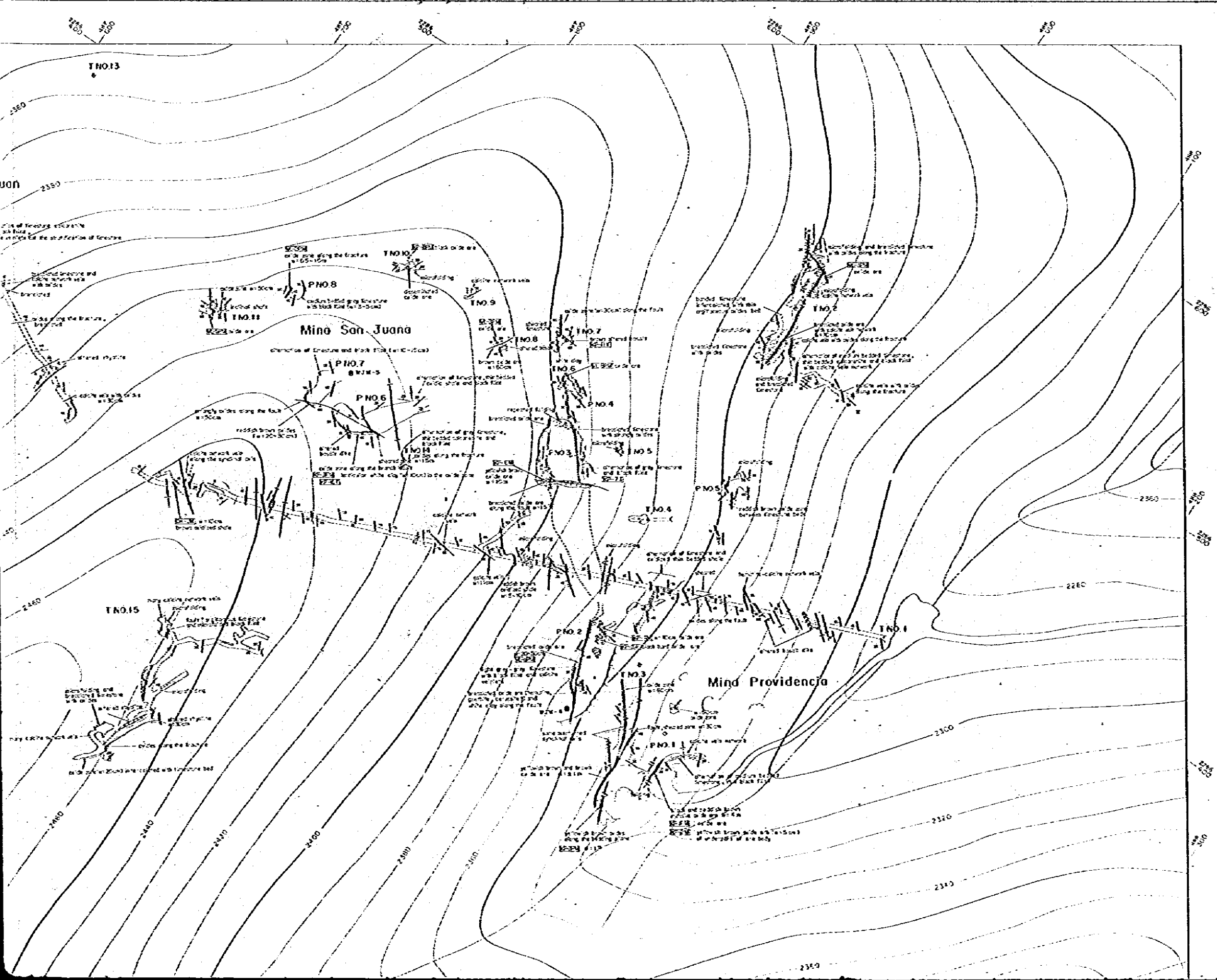
Scale 1 : 1,000

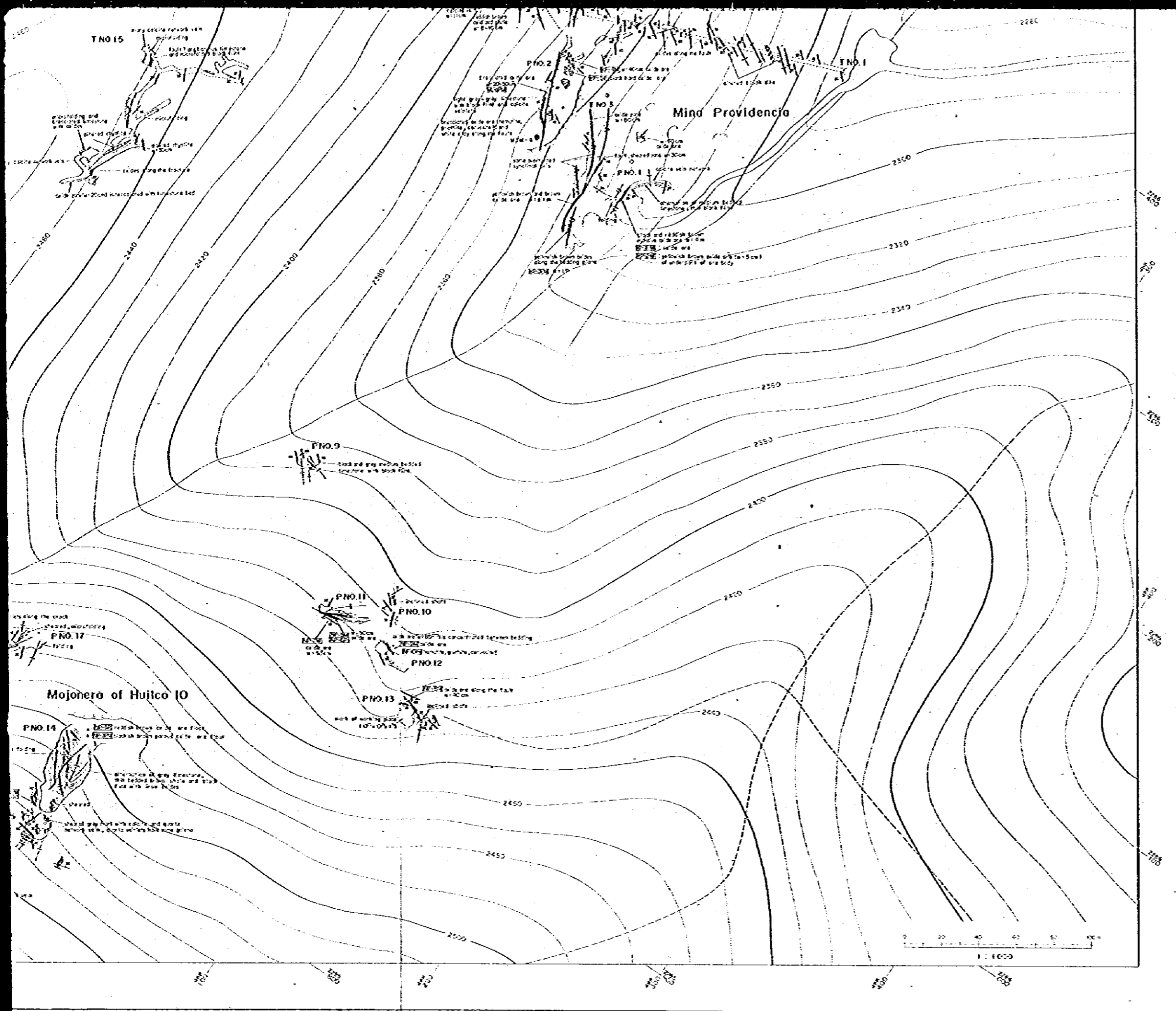


JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1983

LEGEND

- Legend items: Altered basalt, Altered rhyolite, Alternation of medium bedded limestone, thin bedded calcarenite and block flint band, Part of folding, Strike and dip of strata, Fault, Anticlinal axis, Synclinal axis, Overturned anticlinal axis, Overturned synclinal axis, Oxide ore showing, Brecciated part of rocks, Brecciated oxide ore showing, Tunnel, Open pit



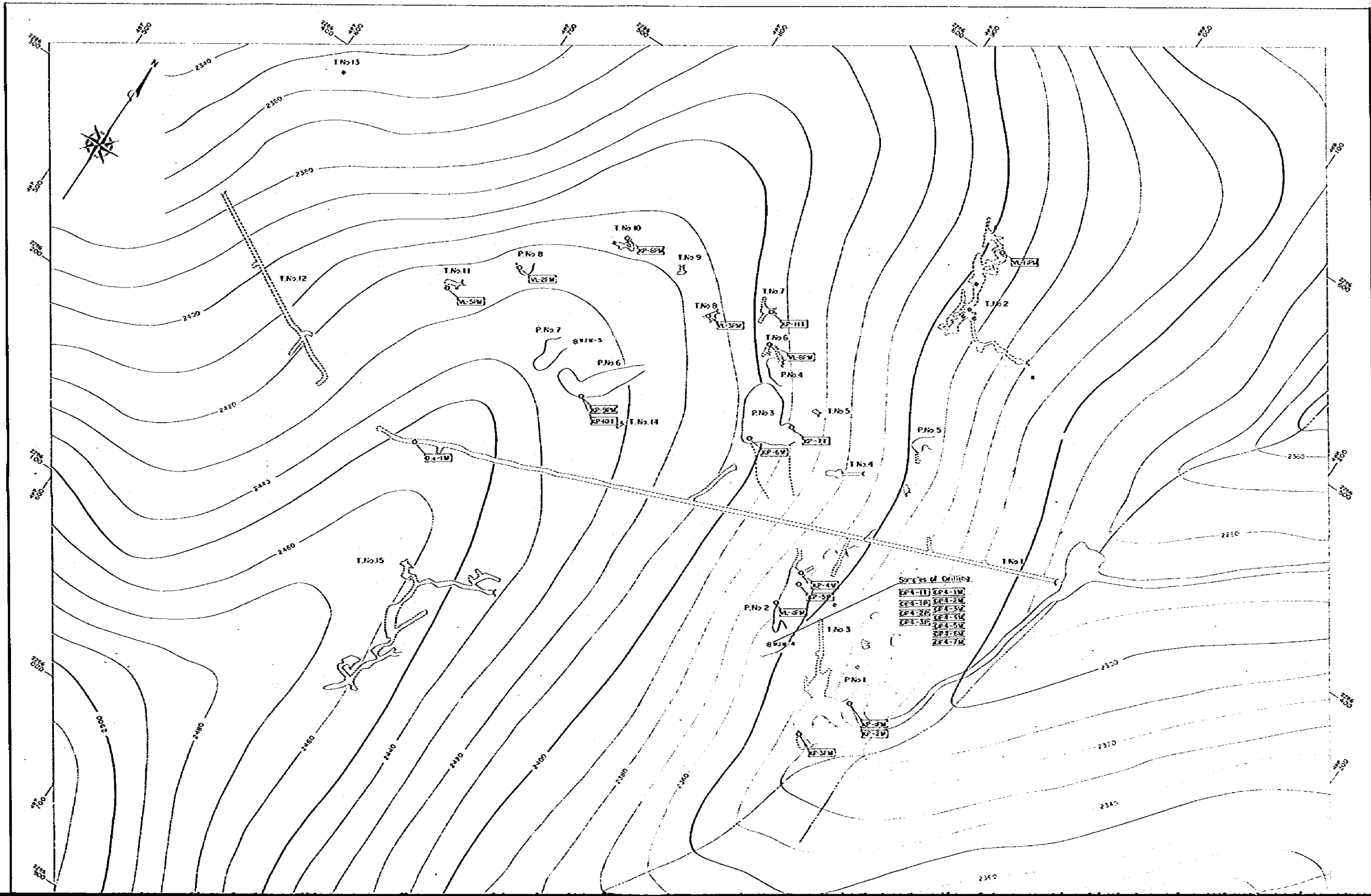


- Altered basalt
- Altered rhyolite
- Alternation of medium bedded limestone, thin bedded calcarenite and black flint band
- Part of folding
- Strike and dip of strata
- Fault
- Anticlinal axis
- Synclinal axis
- Overturned anticlinal axis
- Overturned synclinal axis
- Oxide ore showing
- Brecciated part of rocks
- Brecciated oxide ore showing
- Tunnel
- Open pit
- Sample number
 (P: Folded section, T: Thin section, M: Ore assaying)

Chemical Analysis of Ore Samples

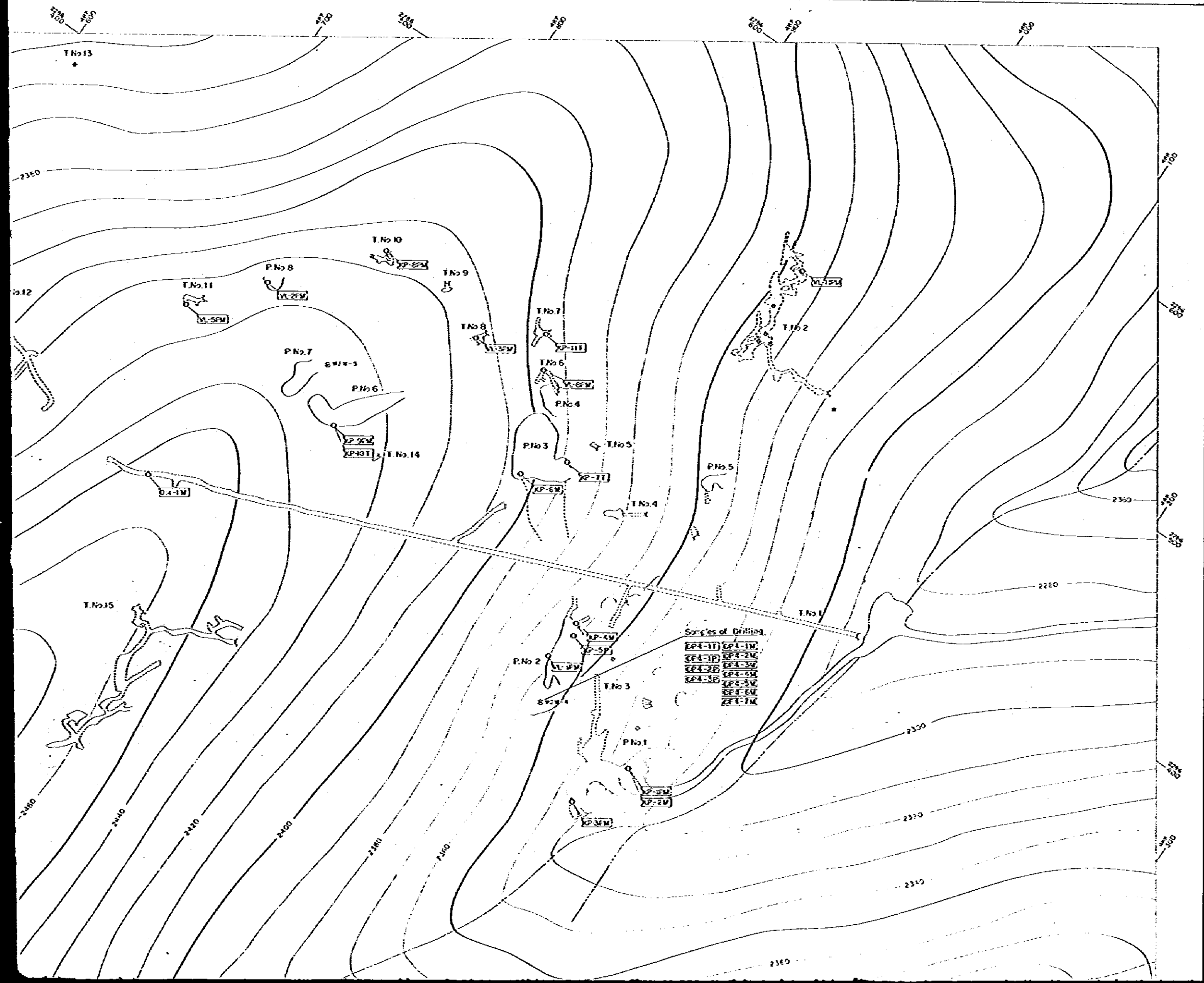
Sample No.	Metal Contents				
	As g/t	Ag %	Cu %	Pb %	Zn %
VL-2M	0.03	3	0.01	0.06	0.72
VL-3M	<0.01	14	0.02	0.55	44.78
VL-5M	---	4	Tr	0.04	37.77
VL-8M	---	10	0.01	6.66	0.90
VL-11M	---	7	Tr	7.50	1.91
VL-12M	<0.01	12	0.02	1.18	7.61
RP-2M	0.05	15	0.01	2.34	18.55
RP-3M	0.01	8	0.01	1.63	4.08
RP-5M	<0.01	6	0.02	1.93	4.65
RP-7M	---	7	0.02	1.93	3.97
RP-8M	---	4	0.02	1.33	2.62
RP-9M	---	5	Tr	0.93	23.76
RP-10M	<0.01	3	Tr	0.91	6.41
RP-11M	---	3	0.01	0.01	0.22
RP-12M	0.01	11	0.01	6.06	0.52
RP-13M	---	10	0.03	2.56	2.63
RP-14M	---	13	0.02	1.38	41.78
RP-15M	0.01	19	0.01	0.94	32.87
RP-16M	0.03	21	0.05	8.60	33.39
RP-17M	---	18	0.01	10.28	25.71
RP-18M	---	8	0.01	0.24	43.25

--- Not assayed Tr: Trace



Samples of Drilling

- EP-1-11
- EP-1-12
- EP-1-13
- EP-1-14
- EP-1-15
- EP-1-16
- EP-2-1
- EP-2-2
- EP-2-3
- EP-2-4
- EP-2-5
- EP-2-6
- EP-2-7
- EP-2-8
- EP-2-9
- EP-2-10
- EP-2-11
- EP-2-12
- EP-2-13
- EP-2-14
- EP-2-15
- EP-2-16
- EP-3-1
- EP-3-2
- EP-3-3
- EP-3-4
- EP-3-5
- EP-3-6
- EP-3-7
- EP-3-8
- EP-3-9
- EP-3-10
- EP-3-11
- EP-3-12
- EP-3-13
- EP-3-14
- EP-3-15
- EP-3-16
- EP-4-1
- EP-4-2
- EP-4-3
- EP-4-4
- EP-4-5
- EP-4-6
- EP-4-7
- EP-4-8
- EP-4-9
- EP-4-10
- EP-4-11
- EP-4-12
- EP-4-13
- EP-4-14
- EP-4-15
- EP-4-16

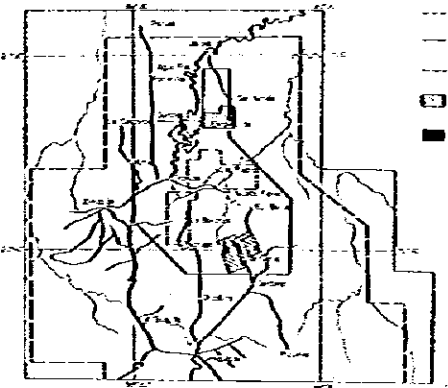


PL 20

GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II

LOCATION MAP OF THE EXAMINED
ROCK AND ORE SAMPLES
FROM THE PROVIDENCIA AREA

Scale 1 : 1,000



--- PHASE I

--- PHASE II

--- PHASE III

□ PHASE IV

■ PHASE V

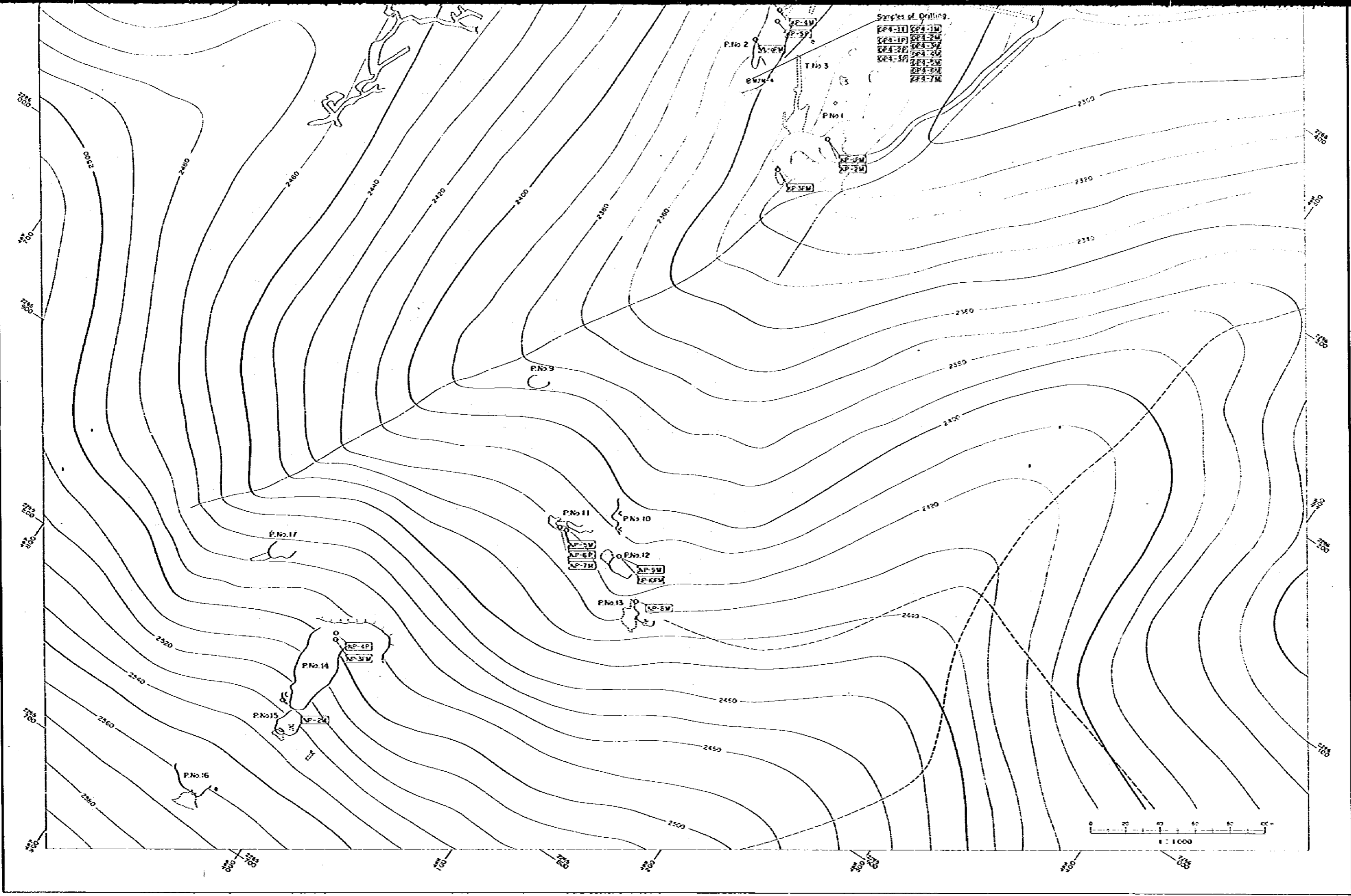
JAPAN INTERNATIONAL COOPERATION AGENCY AND
METAL MINING AGENCY OF JAPAN
IN COLLABORATION WITH
CONSEJO DE RECURSOS MINERALES DE MEXICO
MARCH 1983

EXPLANATION

Suffixes of sample number mean the type of examination as follows:
Example : [SX-5]P
T; Microscopic observation of thin section
P; Microscopic observation of polished section
M; Ore assaying

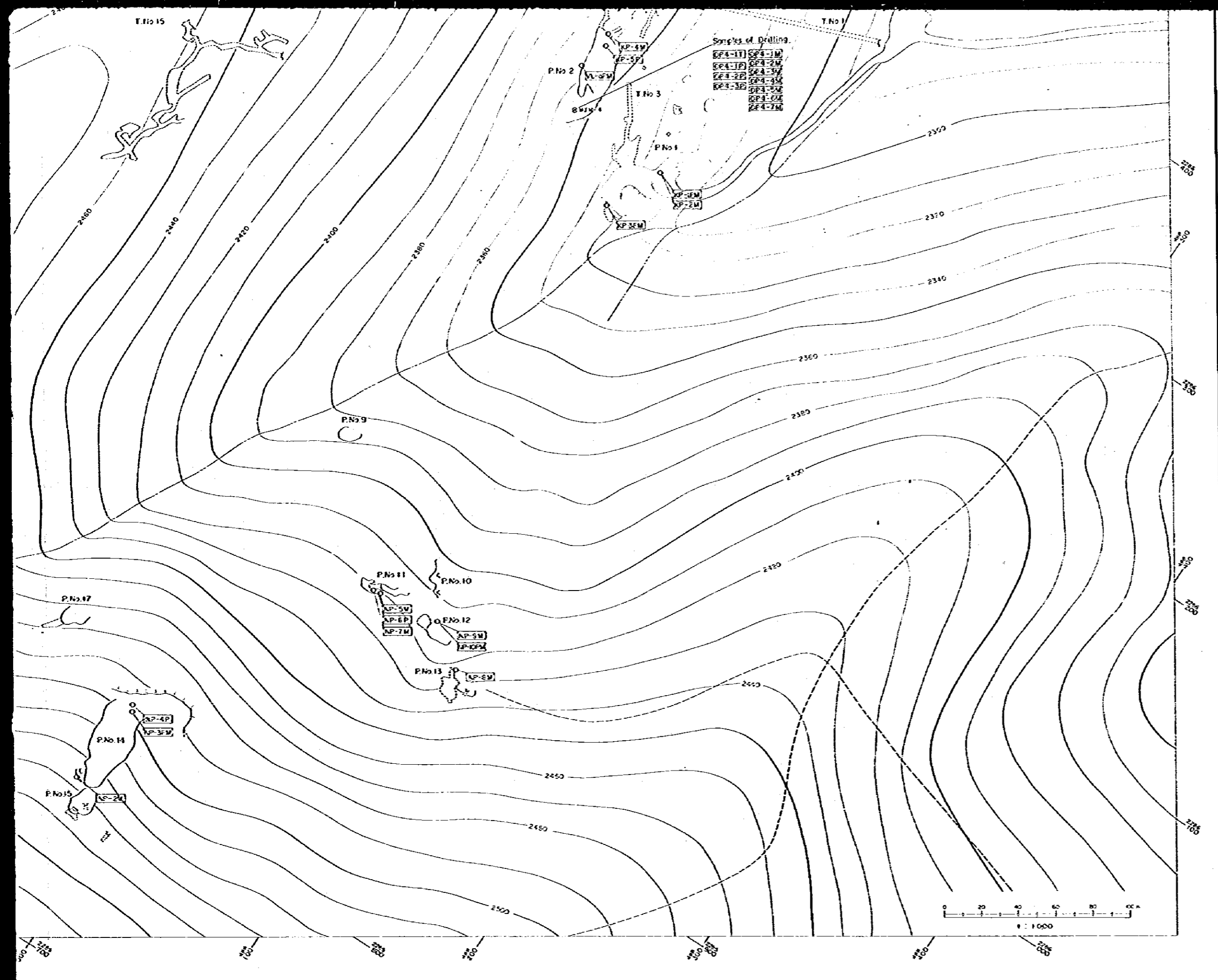
THE NUMBER OF SAMPLE

- Thin section ----- 4
- Polished section ----- 18
- Ore assaying ----- 28



Suffixes of
Example
T; M;
P; M;
M; Cr.

THE PU
Thin
Polish
Ore o



EXPLANATION

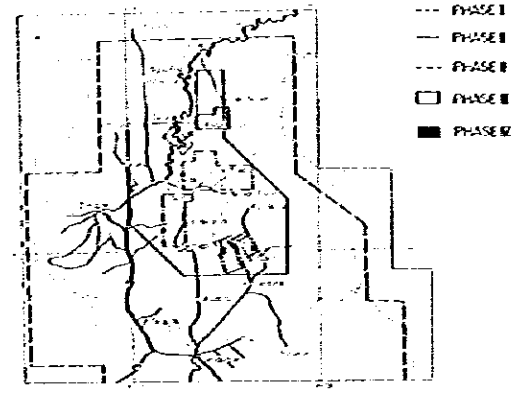
Suffixes of sample number mean the type of examination as follows:
 Example: [SM-5]P

- T; Microscopic observation of thin section
- P; Microscopic observation of polished section
- M; Ore assaying

THE NUMBER OF SAMPLE

- Thin section 4
- Polished section 18
- Ore assaying 28

GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE II
 GEOLOGICAL LOG OF DIAMOND DRILLING HOLE IN THE SAN CLEMENTE AREA (MJM-1)
 Scale 1:200



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

DRILL No.	MJM-1	
DRILL SITE	Coordinate	Altitude
	N 2284307 E 282389	2307 m
DIRECTION	N 40° E	
INCLINATION	0°	
LENGTH	300.10 m	

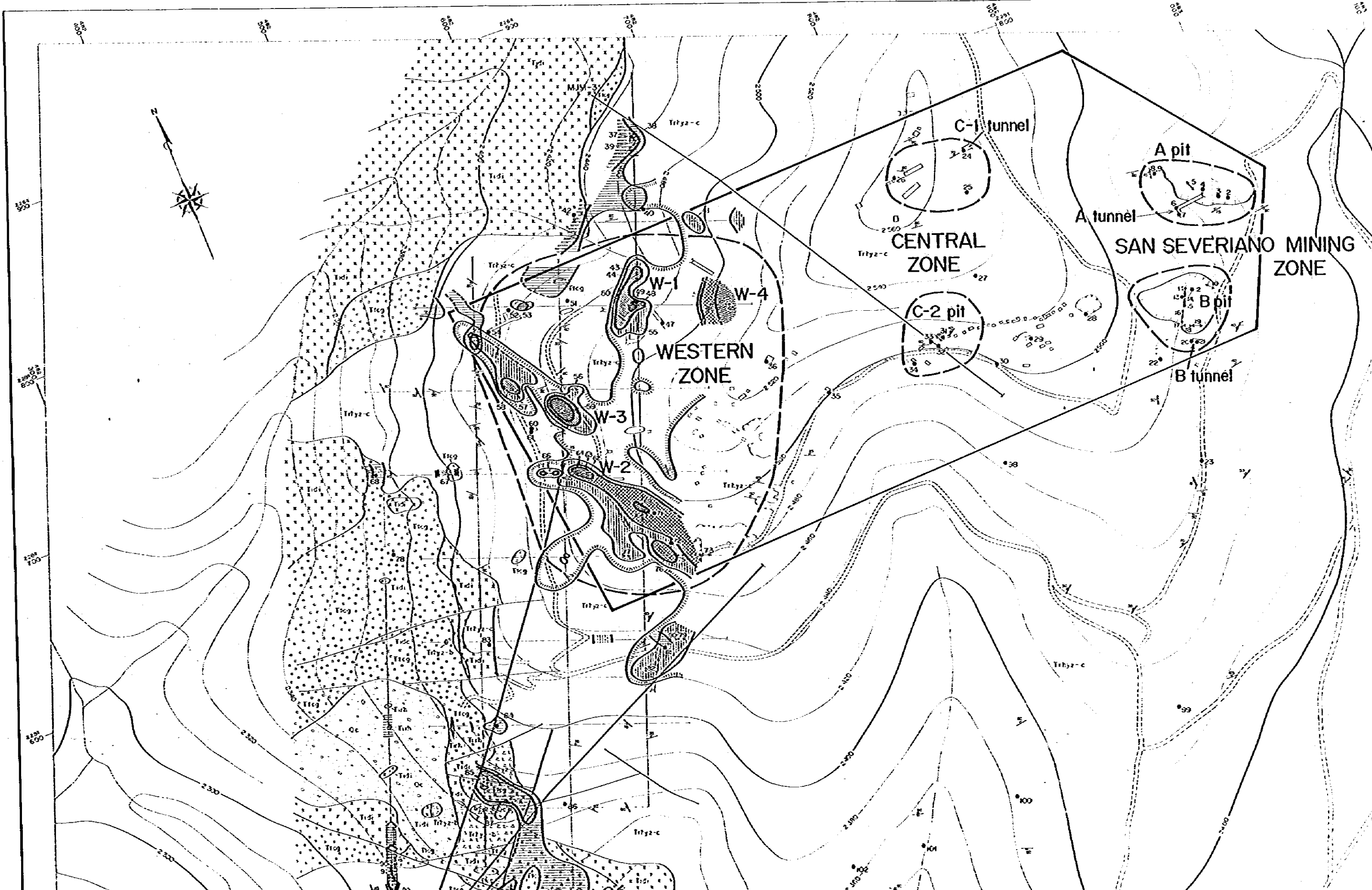
- ABBREVIATIONS**
- (F) : Fracture
 - (V) : Vein
 - (BI) : Bedding
 - St : Stratification
 - Arg : Argillization
 - Ep : Epithermalization
 - Ch : Chloritization
 - Col, Qz : Calcite and Quartz vein
 - Py : Pyrite
 - Mg : Magnetite
 - Sp : Sphalerite
 - Gal : Galena
 - Cp : Chalcopyrite
 - T : Thin section
 - P : Polished section
 - M : Chemical analysis of ore
 - W : Chemical analysis of whole-rock
- SYMBOL**
- Vein
 - ▨ Brecciated vein
 - ▤ Stratification
 - Druse
 - ▨▨▨▨ Staked zone
 - ▨▨▨▨ Strongly staked zone
 - ▨▨▨▨ Brecciation
- ALTERATION AND MINERALIZATION GRADE**
- ▬ Strong
 - ▬ Medium
 - ▬ Weak

POSITION OF EXAMINED CORE SAMPLES	ALTERATION AND MINERALIZATION	ASSAY RESULTS				ROD	CORE RECOVERY (%)	SCALE (m)
		Sample Number	Depth (m)	Width (cm)	Au (g/t)			
100		99	3	0.06	0.9	89		100
101		102	3	0.02	1.0	64		100
102		105	3	0.02	0.7	23		100
103		108	3	0.02	0.7	47		100
104		111	3	0.02	0.8	81		100
105		114	3	0.03	0.6	40		100
106		117	3	0.02	0.8	87		100
107		120	3	0.02	0.9	58		100
108		123	3	0.04	1.0	80		100
109		126	3	0.07	1.4	48		100
110		129	3	0.03	0.8	50		100
111		132	3	0.03	0.6	60		100
112		135	3	0.03	0.5	43		100
113		138	3	0.02	0.6	60		100
114		141	3	0.02	0.5	53		100
115		144	3	0.01	0.4	50		100
116		147	3	0.03	0.8	56		100
117		150	3	0.03	0.4	80		100
118		153	3	0.01	0.4	48		100
119		156	3	0.02	0.6	82		100
120		159	3	0.01	0.5	59		100
121		162	3	0.02	1.0	81		100
122		165	3	0.02	0.5	56		100
123		168	3	0.14	0.7	59		100
124		171	3	0.02	0.4	87		100
125		174	3	0.04	0.9	54		100
126		177	3	0.08	1.4	57		100
127		180	3	0.04	0.8	83		100
128		183	3	0.02	0.7	75		100
129		186	3	0.10	1.1	74		100
130		189	3	0.02	0.6	31		100
131		192	3	0.05	0.9	45		100
132		195	3	0.05	3.0	44		100
133		198	3	0.09	2.5	44		100
134		201	3	0.09	2.5	74		100

SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE	DESCRIPTION	POSITION OF EXAMINED CORE SAMPLES	ALTERATION AND MINERALIZATION	ASSAY RESULTS				ROD	CORE RECOVERY (%)	SCALE (m)	
						Sample Number	Depth (m)	Width (cm)	Au (g/t)				Ag (g/t)
200		2055	Gray massive dolomite conglomerate			MJM-1	201	3	0.22	2.7	58		200
		2060	Greenish gray cherty dolomite			MJM-1	202	3	0.22	2.7	50		200
		2065	Gray to greenish gray cherty dolomite				204	3	0.23	3.5	28		200
		2070	Green to dark green cherty dolomite, red iron stained				207	3	0.02	0.6	60		200
		2075					208	3	0.02	0.6	43		200
		2080					210	3	0.01	0.4	27		200
		2085					213	3	0.01	0.5	55		200
		2090					216	3	0.02	0.4	50		200
		2095					219	3	0.02	0.4	55		200
		2100					222	3	0.02	0.5	50		200
		2105					225	3	0.05	0.5	55		200
		2110					228	3	0.01	0.6	100		200
		2115					231	3	<0.01	0.5	55		200
		2120					234	3	0.01	0.6	90		200
		2125					237	3	0.01	0.7	70		200
		2130					240	3	0.01	0.4	50		200
		2135					243	3	0.03	1.7	37		200
		2140					246	3	0.02	1.9	42		200
		2145					249	3	0.01	2.5	29		200
		2150					252	3	0.01	1.2	29		200
		2155					255	3	0.01	1.6	55		200
		2160					258	3	0.02	0.5	57		200
		2165					261	3	0.04	0.4	26		200
		2170					264	3	0.04	1.1	100		200
		2175					267	3	0.02	0.4	63		200
		2180					270	3	<0.01	0.6	100		200
		2185					273	3	0.01	0.5	50		200
		2190					276	3	0.01	0.5	50		200
		2195					279	3	0.01	0.5	32		200
		2200					282	3	0.01	0.5	71		200
		2205					285	3	0.01	0.5	50		200
		2210					288	3	<0.01	0.3	90		200
		2215					291	3	<0.01	0.4	63		200
		2220					294	3	0.01	0.9	0		200
		2225					297	3	0.01	0.6	73		200
		2230					300	3.1	0.04	0.7	78		200

SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE	DESCRIPTION	POSITION OF EXAMINED CORE SAMPLES	ALTERATION AND MINERALIZATION	ASSAY RESULTS					ROD RECOVERY (%)	CORE RECOVERY (%)	SCALE (m)	
						Sample Number	Depth (m)	Width (cm)	Au (g/t)	Ag (g/t)				Cu (%)
0			Light grey to grey massive rhyolite Microcline, quartz, subhedral to euhedral groundmass, microphyllite of quartz and feldspar 0-1435m blackish brown iron oxides along the fracture			1	0	3	0.01	0.6	10			
2.5		10°	6.25m quartz vein with black and brown oxide rim			4	1	3	0.01	1.0	27			
10		10°	1435-3835m brown iron oxides along the fracture			7	6	3	0.05	3.0	0			
20		10°	1980-2000m crystal quartz and white and brown clay along the duct	1700-1800m D52-18		10	9	3	0.02	1.9	25			
24		10°	2420-2450m brecciated vein with disseminated pyrite and black copper mineral			13	12	3	0.02	0.4	68			
30		10°				16	15	3	0.01	0.3	35			
40		10°	3835-5120m light brown massive rhyolite			19	18	3	0.02	0.4	50			
50		10°	4200-4400m highly fractured rhyolite with pyrite	4400-4500m D52-28		22	21	3	<0.01	0.2	80			
55		10°	4570-4695m 4730-4750m white strongly altered rhyolite with duct			25	24	3	0.01	0.3	17			
60		10°	5120-5120m light grey rhyolite with disseminated pyrite			28	27	3	<0.01	0.2	65			
65		10°	5120-5425m strongly altered			31	30	3	0.01	0.4	20			
70		10°	5425-5450m quartz veins with black and brown oxide rim	5450-5450m D52-19		34	33	3	<0.01	0.1	30			
75		10°	5450-5550m brecciation of rhyolite, calcite, pyrite, magnetite and black oxide mineral			37	36	3	<0.01	0.1	0			
80		10°	5550-6145m quartz vein			40	39	3	<0.01	0.2	37			
85		10°	6145-6145m quartz vein			43	42	3	<0.01	0.1	77			
90		10°	6145-7010m highly altered rhyolite with disseminated pyrite	7000-7100m D52-18		45	44	3	<0.01	0.2	26			
95		10°	7010-7033m white clay	7033-7033m D52-18		49	48	3	<0.01	0.2	38			
100		10°	7033-7055m brecciation of rhyolite, quartz and calcite	7055-7055m D52-19		52	51	3	0.01	0.1	82			
		10°	7055-7425m calcite			55	54	3	0.03	0.3	69			
		10°	7425-7455m calcite			58	57	3	<0.01	0.3	54			
		10°	7455-7650m rhyolite	7600-7650m D52-28		61	60	3	<0.01	0.3	52			
		10°	7650-7650m sphene and calcite	7450-7650m D52-19		64	63	3	<0.01	0.2	83			
		10°	7650-7800m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			67	66	3	0.01	0.5	85			
		10°	7800-7820m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			70	69	3	0.01	0.8	66			
		10°	7820-7855m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			73	72	3	0.01	1.0	44			
		10°	7855-8155m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			76	75	3	0.02	0.3	56			
		10°	8155-8530m black calcareous mud with calcite vein network			79	78	3	0.02	0.2	50			
		10°	8530-8680m light grey to grey rhyolite with disseminated pyrite and black oxide mineral	8530m D52-19		82	81	3	<0.01	0.2	55			
		10°	8680-8800m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			85	84	3	<0.01	2.0	38			
		10°	8800-8800m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			88	87	3	0.10	4.3	41			
		10°	8800-8930m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			91	90	3	0.02	0.8	13			
		10°	8930-8930m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			94	93	3	<0.01	<0.1	79			
		10°	8930-8930m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			97	96	3	<0.01	<0.1	84			
		10°	8930-8930m light grey to grey rhyolite with disseminated pyrite and black oxide mineral			99	99	3	<0.01	<0.1	80			

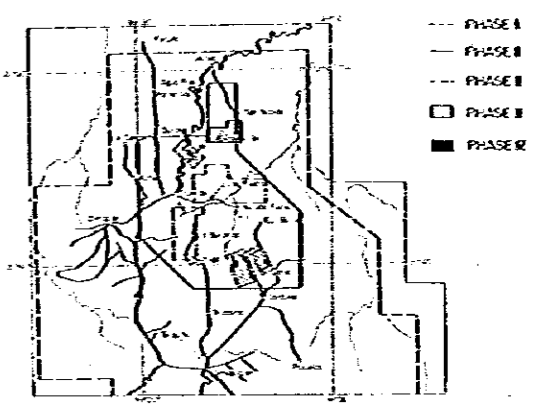
SCALE (m)	GEOLOGIC COLUMN	DEPTH AND CORE ANGLE	DESCRIPTION	POSITION OF EXAMINED CORE SAMPLES	ALTERATION AND MINERALIZATION	ASSAY RESULTS					ROD RECOVERY (%)	CORE RECOVERY (%)	SCALE (m)	
						Sample Number	Depth (m)	Width (cm)	Au (g/t)	Ag (g/t)				Cu (%)
100		10°	rhyolite with disseminated pyrite and black oxide mineral			100	100	3	<0.01	<0.1	65			
105		10°	quartz vein with black and brown oxide rim			103	102	3	<0.01	<0.1	64			
110		10°	10872-11165m quartz vein			105	105	3	<0.01	<0.1	70			
115		10°	11165-11370m quartz vein			106	108	3	0.01	0.4	76			
120		10°	11370-11765m quartz vein			109	108	3	0.01	0.1	64			
125		10°	11765-11765m quartz vein			112	111	3	0.03	0.3	73			
130		10°	11765-11765m quartz vein			114	114	3	0.04	0.3	52			
135		10°	11765-11765m quartz vein			115	117	3	0.02	1.9	95			
140		10°	11765-11765m quartz vein			118	120	3	<0.01	1.1	100			
145		10°	11765-11765m quartz vein			121	120	3	<0.01	1.1	65			
150		10°	11765-11765m quartz vein			124	123	3	0.03	0.4	75			
155		10°	11765-11765m quartz vein			126	126	3	0.01	0.4	56			
160		10°	11765-11765m quartz vein			127	129	3	0.01	0.1	31			
165		10°	11765-11765m quartz vein			130	132	3	0.02	0.2	60			
170		10°	11765-11765m quartz vein			133	135	3	0.02	0.2	67			
175		10°	11765-11765m quartz vein			136	138	3	0.01	0.2	50			
180		10°	11765-11765m quartz vein			139	141	3	<0.01	0.4	32			
185		10°	11765-11765m quartz vein			142	144	3	0.02	0.5	93			
190		10°	11765-11765m quartz vein			145	147	3	0.02	0.5	66			
195		10°	11765-11765m quartz vein			148	150	3	0.02	0.5	88			
200		10°	11765-11765m quartz vein			151	150	3	0.03	0.2	60			
		10°	11765-11765m quartz vein			154	153	3	0.02	0.2	0			
		10°	11765-11765m quartz vein			157	156	3	0.01	0.1	24			
		10°	11765-11765m quartz vein			159	159	3	0.03	0.3	67			
		10°	11765-11765m quartz vein			160	162	3	0.03	0.8	37			
		10°	11765-11765m quartz vein			163	165	3	0.03	0.3	25			
		10°	11765-11765m quartz vein			166	168	3	0.02	0.4	54			
		10°	11765-11765m quartz vein			169	171	3	0.03	0.5	73			
		10°	11765-11765m quartz vein			172	174	3	0.03	2.3	93			
		10°	11765-11765m quartz vein			175	177	3	0.05	3.1	72			
		10°	11765-11765m quartz vein			178	180	3	0.02	0.4	50			
		10°	11765-11765m quartz vein			181	183	3	0.03	2.0	81			
		10°	11765-11765m quartz vein			184	186	3	0.01	0.7	73			
		10°	11765-11765m quartz vein			187	189	3	0.01	0.5	52			
		10°	11765-11765m quartz vein			190	192	3	0.03	0.5	80			
		10°	11765-11765m quartz vein			193	195	3	0.02	0.6	82			
		10°	11765-11765m quartz vein			196	198	3	<0.01	0.7	75			
		10°	11765-11765m quartz vein			199	201	3	<0.01	0.4	63			



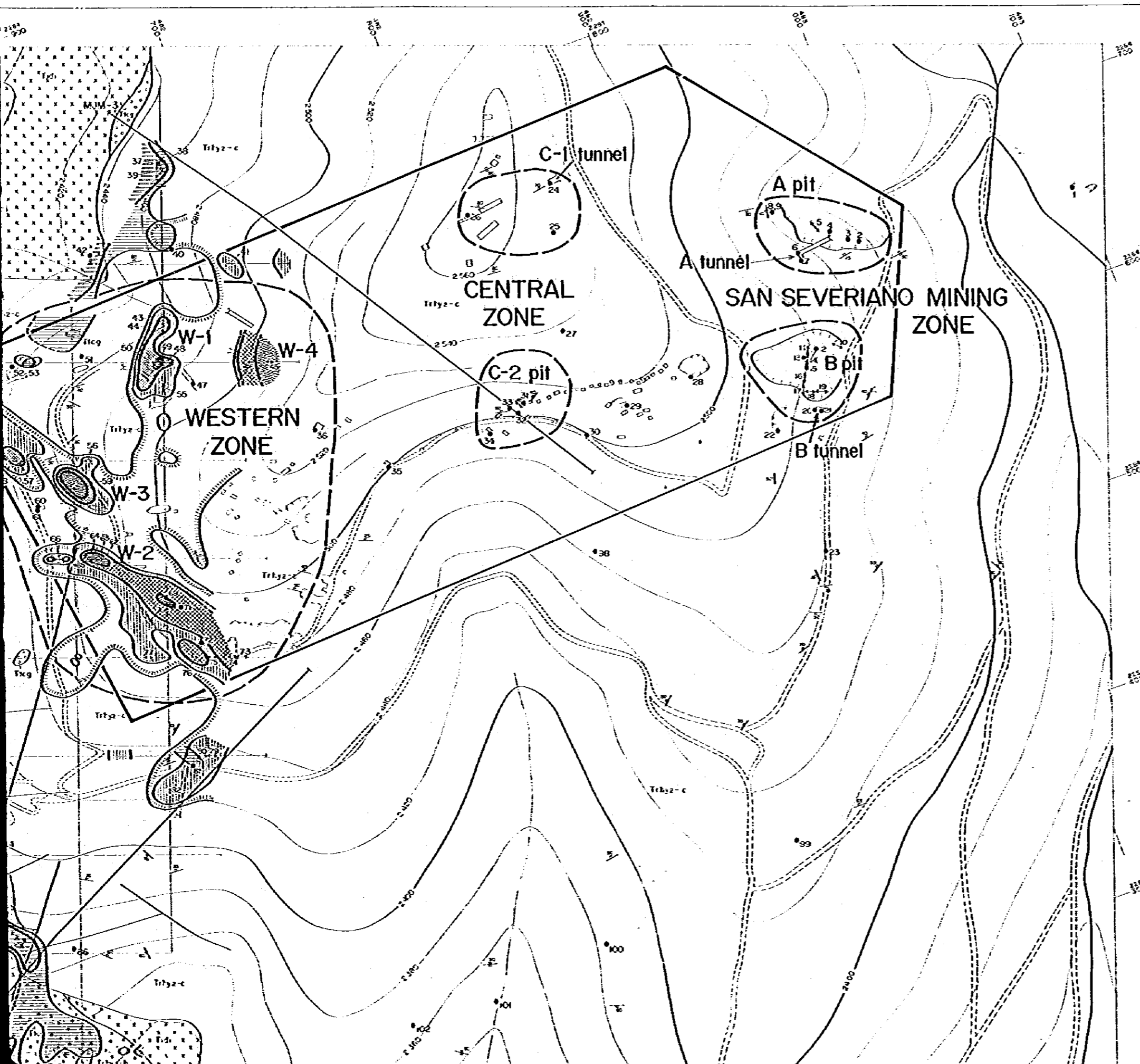
GEOLOGICAL SURVEY OF THE PACHUCA - ZIMAPAN AREA PHASE II

INTERPRETATION MAP OF THE SAN CLEMENTE AREA

Scale 1:1,000



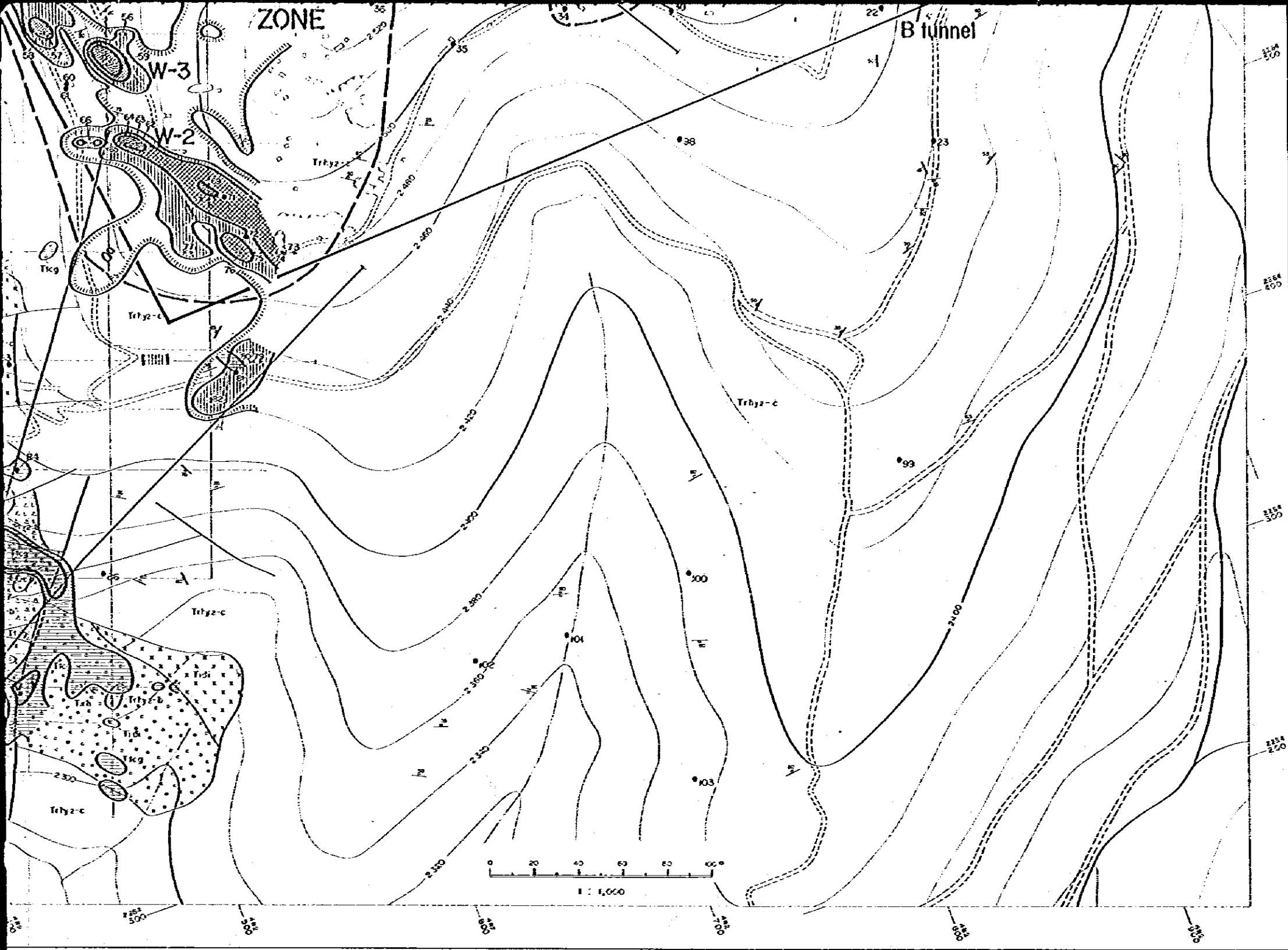
JAPAN INTERNATIONAL COOPERATION AGENCY AND METAL MINING AGENCY OF JAPAN IN COLLABORATION WITH CONSEJO DE RECURSOS MINERALES DE MEXICO MARCH 1983



LEGEND

- 1000 Circle
- 1000-10000 Concentric rhyolite
- 1000-10000 Brecciated rhyolite
- 1000-10000 Tuffaceous conglomerate
- 1000-10000 Diabase
- 1000-10000 Sphelite
- 1000-10000 Altered diorite
- Strike and dip of strata
- Strike and dip of fault
- Fault
- Tunnel
- Open pit
- Trench
- Diamond Drilling
- Line of trench
- As anomalies $\geq 1.00 \text{ ppm}$
- Ag anomalies $\geq 2.20 \text{ ppm}$
- $1.00 > \geq 20.30 \text{ ppm} \geq 2.20$
- $0.30 > \geq 0.09 \text{ ppm}$
- $0.09 > \geq 0.027 \text{ ppm}$
- 32 Dip samples contained 0.5% As and/or higher contents
- 90 Ground samples contained 0.23% As and/or higher contents (Phase IV sample) and 0.5% As and/or higher contents (Phase I, II sample) respectively
- Mineralized zone
- Recommended area for next step exploration

Sample No.	Phase	Type of sample	As (ppm)	Ag (ppm)
1	C-1	W-1	0.88	0.15
2	C-1	W-1	0.85	0.11
3	C-1	W-1	0.34	0.09
4	C-1	W-1	0.65	0.14
5	C-1	W-1	0.40	0.18
6	C-1	W-1	0.90	0.15
7	C-1	W-1	0.30	0.17
8	C-1	W-1	0.26	0.24
9	C-1	W-1	0.80	0.18
10	C-1	W-1	0.35	0.19
11	C-1	W-1	0.28	0.11
12	C-1	W-1	0.27	0.03
13	C-1	W-1	0.75	0.08
14	C-1	W-1	1.00	0.07



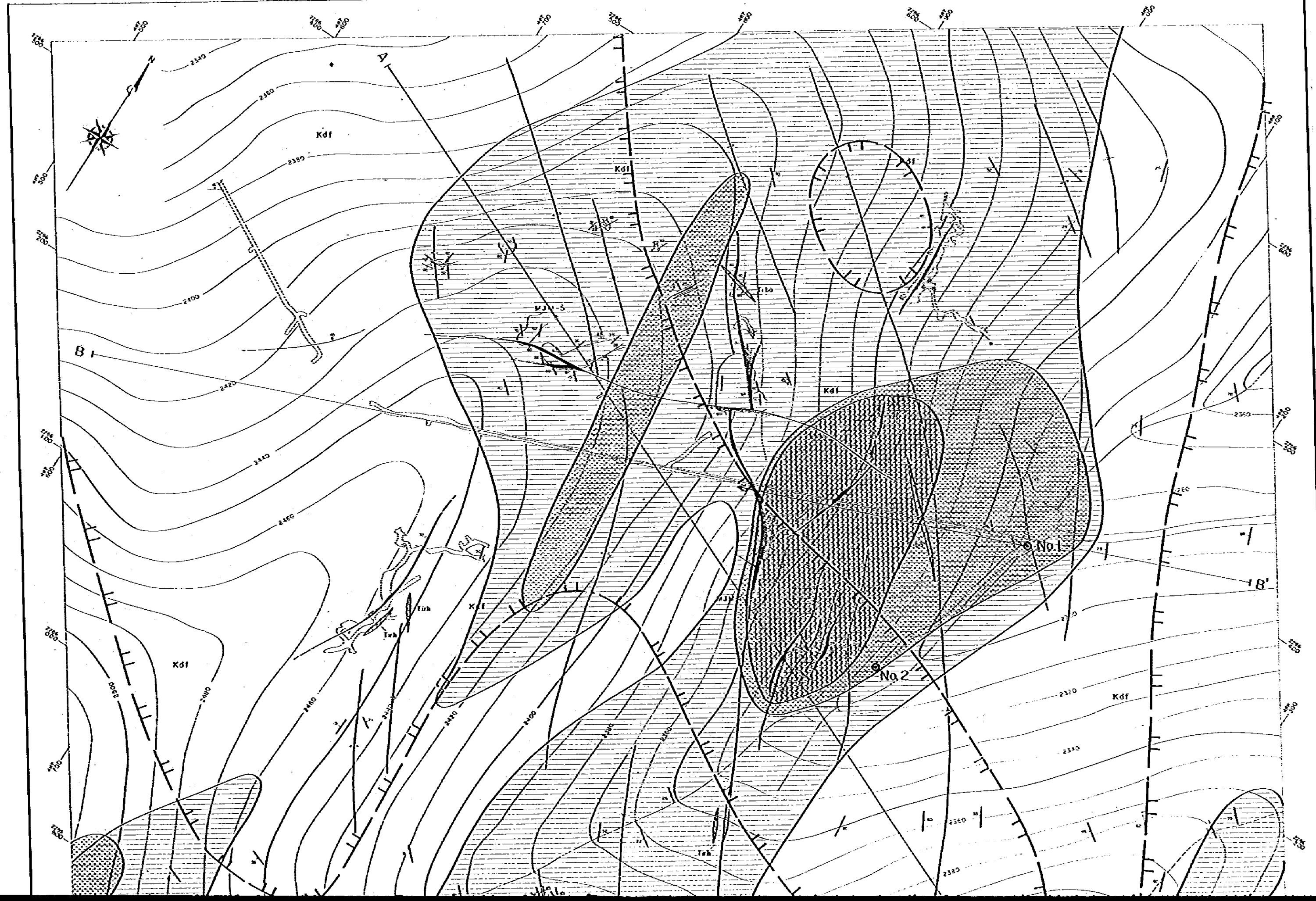
LEGEND

	(Coc) Coliche		Strike and dip of strata		As anomalies ≥ 100 ppm		Ag anomalies ≥ 220 ppm
	(Trhy-cl) Complex rhyolite		Strike and dip of joint		As anomalies ≥ 2030 ppm		Ag anomalies ≥ 2078 ppm
	(Trhy-bl) Brecciated rhyolite		Fault		As anomalies ≥ 009 ppm		Ag anomalies ≥ 0027 ppm
	(Trhy-g) Tuffaceous conglomerate		Tunnel		As anomalies ≥ 009 ppm		Ag anomalies ≥ 0027 ppm
Extrusive rocks			Open pit		As anomalies ≥ 009 ppm		Ag anomalies ≥ 0027 ppm
	(Trid-e) Dacite		Trench		As anomalies ≥ 009 ppm		Ag anomalies ≥ 0027 ppm
	(Trid-b) Rhyolite		Diamond drilling		As anomalies ≥ 009 ppm		Ag anomalies ≥ 0027 ppm
	(Trid-d) Altered diorite		Life of trench		As anomalies ≥ 009 ppm		Ag anomalies ≥ 0027 ppm

Chip samples contained 0.5% or higher contents
 Channel samples contained 0.2% or higher contents (Phase M sample) and 0.5% or higher contents (Phase E, W sample) respectively
 Mineralized zone
 Recommended area for next step exploration

Sample No.	Sample No.	Wt %	Phase	Type of sample	Sample No.	Wt %	Phase	Type of sample	
1	C10W	1.2	E	C	54	CEW	0.58	E	C
2	S135	2.2	W	C	55	S71	0.45	W	Ch 15Cw
3	C28W	1.0	W	C (1-5cm)	56	S24	0.34	W	Ch 15Cw
4	S124	2.7	E	C	57	S25	0.65	W	Ch 15Cw
5	S132	1.1	E	Ch 15Cw	58	S26	0.40	W	Ch 15Cw
6	C29W	1.45	W	C (1-5cm)	59	S27	0.50	W	Ch 15Cw
7	C30W	1.4	W	C (1-5cm)	60	S28	0.9	W	C (15Cw)
8	C31W	1.0	W	C (15Cw)	61	C22W	2.6	W	C (15Cw)
9	C4W	0.65	W	C (15Cw)	62	S36	0.60	W	Ch 15Cw
10	S18	1.2	E	Ch 17Cw	63	S35	4.35	W	Ch 15Cw
11	S122	0.26	E	Ch 16Sw	64	S24	0.29	W	Ch 15Cw
12	C34W	2.5	W	C (1-5cm)	65	S72	0.22	W	Ch 15Cw
13	C35W	0.36	W	C (15Cw)	66	S30	0.75	W	Ch 15Cw
14	S128	1.1	E	Ch 17Cw	67	S19	1.00	W	C (15Cw)
15	C36W	2.06	W	C (15Cw)	68	C34	1.0	W	C
16	S127	0.56	W	Ch 16Sw	69	S47	2.70	W	Ch 15Cw
17	S126	1.4	W	Ch 15Sw	70	S45	2.15	W	C (15Cw)
18	S125	2.1	W	Ch 17Cw	71	S49	1.8	W	C
19	S124	0.69	W	Ch 17Cw	72	C47	1.9	W	C
20	S127	0.9	W	C	73	S41	4.60	W	Ch 15Cw
21	S146	2.1	W	C	74	S43	0.50	W	Ch 15Cw
22	C133	0.56	W	C	75	S38	0.45	W	Ch 15Cw
23	S245	1.8	W	C	76	S36	1.15	W	Ch 15Cw
24	C2W	0.6	W	C (15Cw)	77	S31	0.38	W	Ch 15Cw
25	C457	0.50	W	C	78	C55	1.4	W	C
26	S185	0.70	W	C	79	S35	0.28	W	Ch 15Cw
27	C58	0.54	W	C	80	S74	0.53	W	Ch 15Cw
28	S178	0.6	W	C	81	C43	0.8	W	C
29	S270	1.2	W	C	82	S22	0.47	W	Ch 15Cw
30	C59	0.66	W	C	83	C46	0.62	W	C
31	S193	1.1	W	C	84	C47	1.4	W	C
32	S129	1.0	W	C	85	S28	0.33	W	Ch 15Cw
33	S155	0.58	W	C	86	C47	0.75	W	C
34	S257	1.6	W	C (15Cw)	87	C46	0.83	W	C
35	S24	0.89	W	C	88	C45	0.6	W	C
36	S279	1.0	W	C	89	C47	0.9	W	C
37	C475	1.7	W	C	90	S13	0.25	W	Ch 15Cw
38	S37	0.45	W	Ch 15Cw	91	S12	0.34	W	Ch 15Cw
39	S96	0.31	W	Ch 15Cw	92	S10	0.26	W	Ch 15Cw
40	C474	2.2	W	C	93	S5	0.43	W	Ch 15Cw
41	E00	0.33	W	Ch 15Cw	94	S5	0.28	W	Ch 15Cw
42	C483	2.5	W	C	95	S4	0.47	W	Ch 15Cw
43	S30	0.45	W	Ch 15Cw	96	S2	0.58	W	Ch 15Cw
44	S78	0.45	W	Ch 15Cw	97	S1	1.63	W	Ch 15Cw
45	F48	0.13	W	Ch 15Cw	98	C40	0.33	W	C
46	F45	0.60	W	Ch 15Cw	99	C43	1.00	W	C
47	C12W	0.59	W	C (15Cw)	100	C54	0.65	W	C
48	S24	0.60	W	Ch 15Cw	101	S22	0.61	W	C
49	S32	0.58	W	Ch 15Cw	102	C42	0.75	W	C
50	S34	2.25	W	Ch 15Cw	103	C46	2.7	W	C
51	C483	0.50	W	C					
52	S230	1.0	W	C					
53	S243	0.4	W	C					

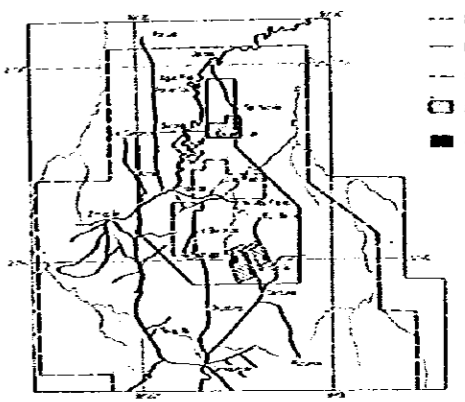
Abbreviations
 Ch 15Cw: Channel sample (width of sampling)
 C40Cw: Chip sample (width of sampling)



IN

GEOLOGICAL SURVEY
OF
THE PACHUCA - ZIMAPAN AREA
PHASE II
INTERPRETATION MAP OF THE
PROVIDENCIA AREA

Scale 1 : 1,000

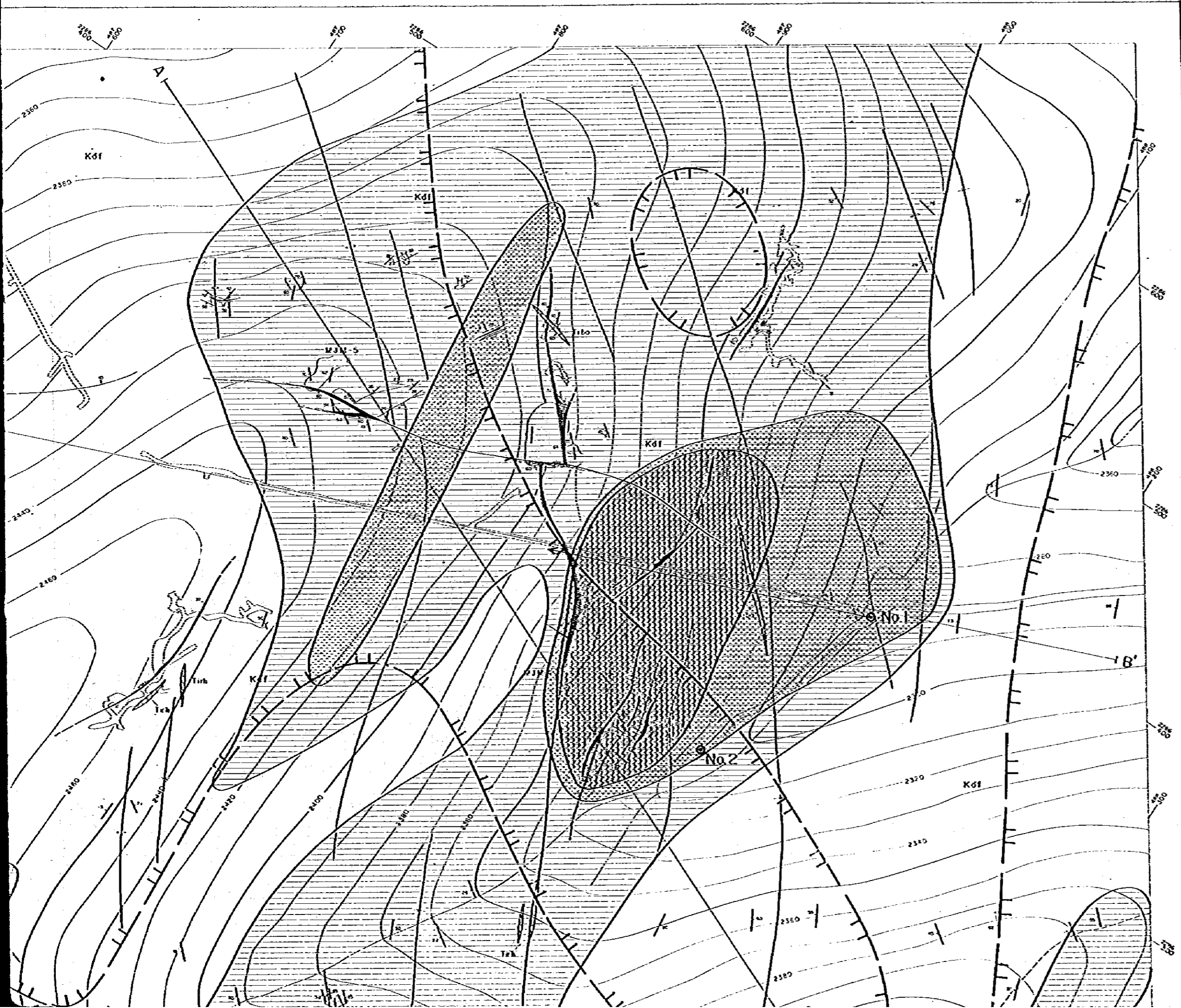


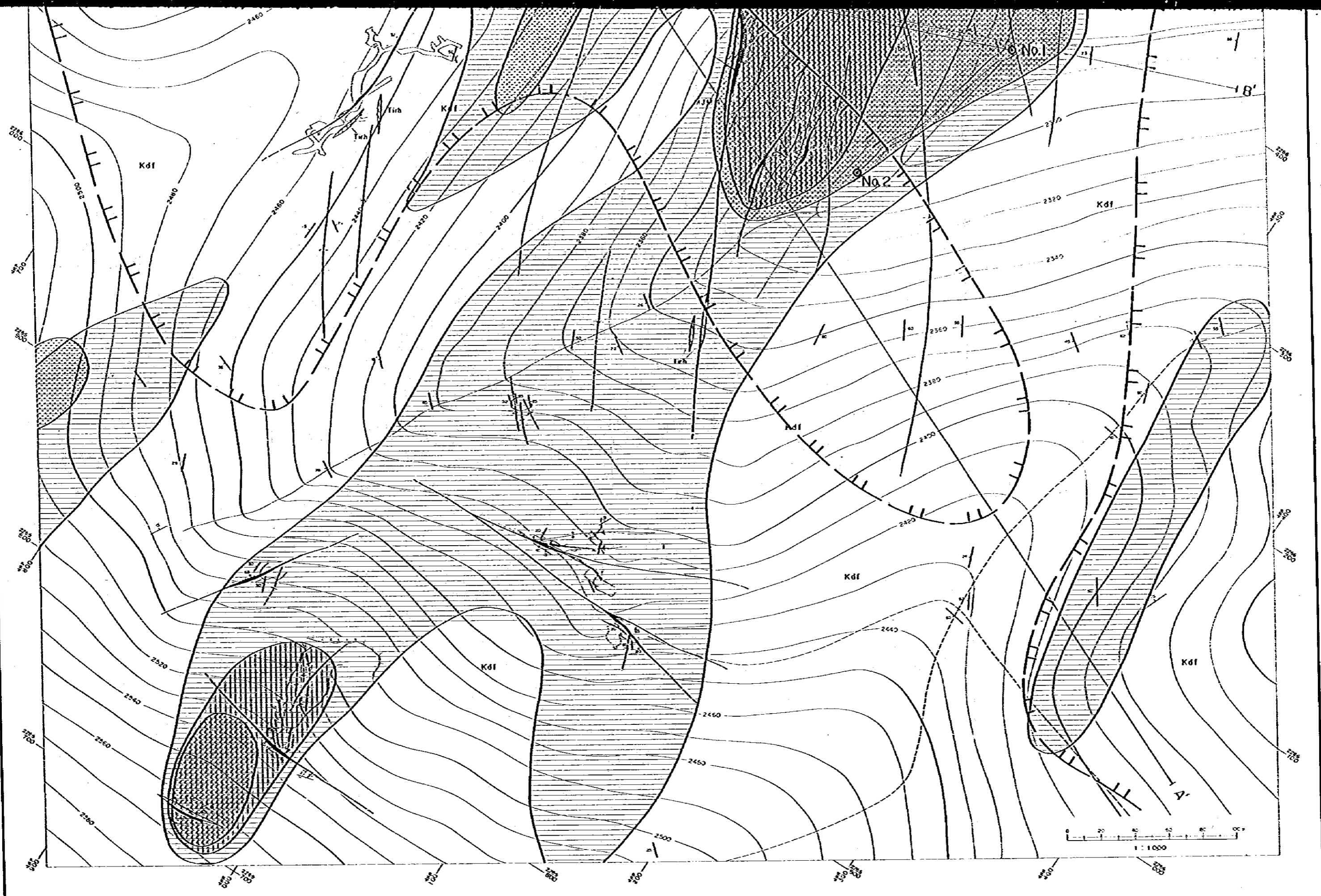
- PHASE I
- PHASE II
- PHASE III
- PHASE II
- PHASE II

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

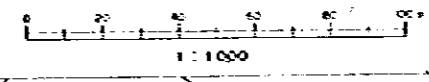
LEGEND

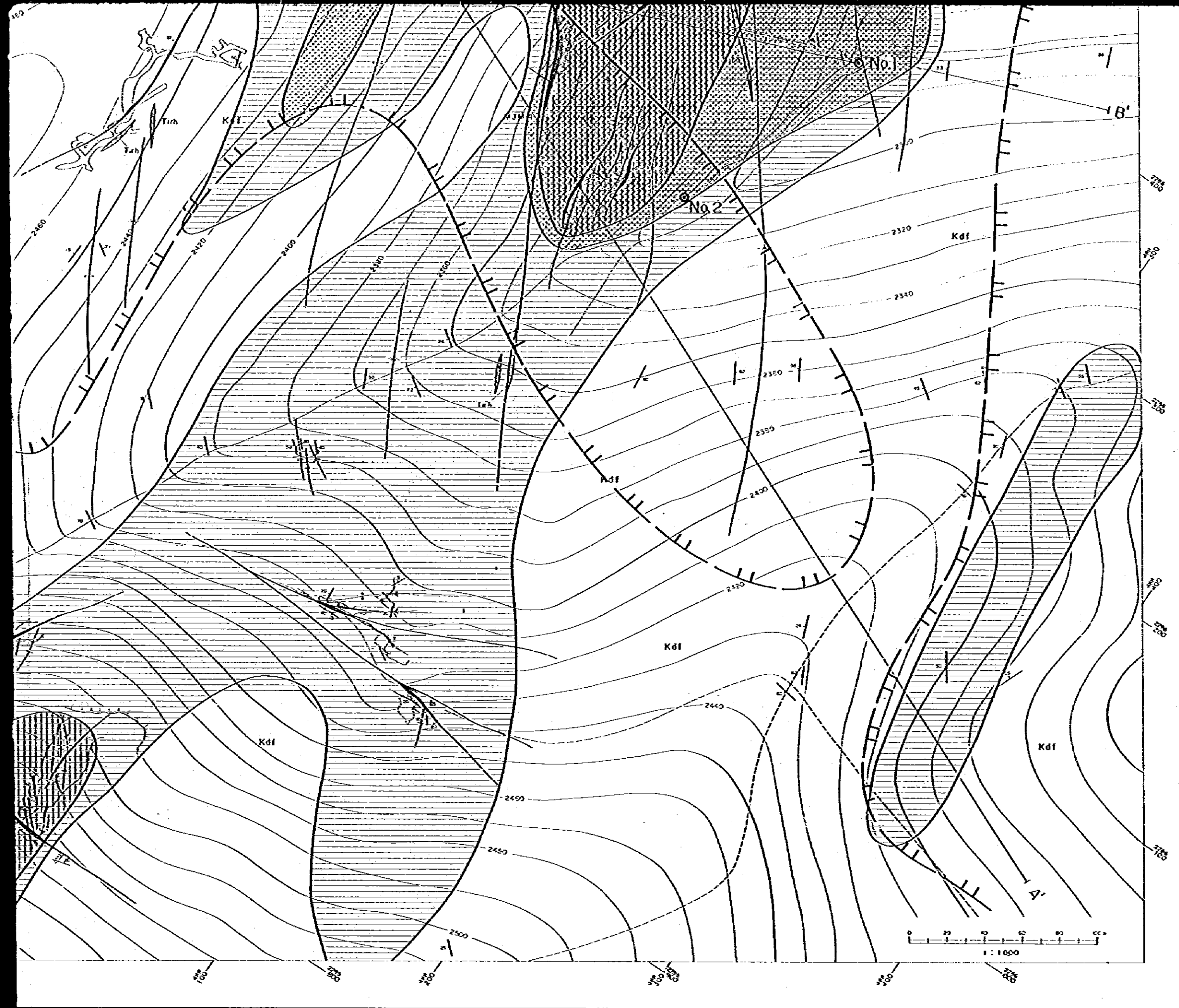
- Altered eugite basalt
- Rhyolite
- Alternation of medium bedded limestone, thin bedded calcarenite and black flint band
- Strike and dip of strata
- Fault
- Anticlinal axis
- Synclinal axis
- Overturned anticlinal axis
- Overturned synclinal axis
- Oxide ore
- Geological profile line
- S M J M - 4 Diamond drilling and cylinder
- Geochemical Cu, Pb and Ag anomalies after phase III



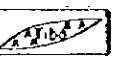
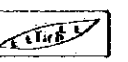
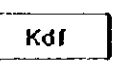
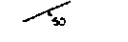





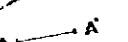








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LEGEND

-  Altered augite basalt
-  Rhyolite
-  **Kdf** Alternation of medium bedded limestone, thin bedded calcarenite and block flint band
-  Strike and dip of strata
-  Fault
-  Anticlinal axis
-  Synclinal axis
-  Overthrust anticlinal axis
-  Overthrust synclinal axis
-  Oxide ore
-  Geological profile line
-  \odot MJM-4 Diamond drilling and number
- Geochemical Cu, Pb and Ag anomalies (after phase II)
-  : A class of anomalies, $Cu \geq 141 \text{ ppm}$
-  : AA and A class of anomalies, $Pb \geq 923 \text{ ppm}$
-  : A class of anomalies, $Ag \geq 6.6 \text{ ppm}$
- Geophysical I.P. anomalies (after phase II)
-  : $d = 200 \text{ m}$

Recommended exploration work

$\odot \rightarrow$ Diamond drilling to investigate the mineralization of the deeper part

No.	direction	inclination	length
No.1	S70°W	-70°	500m
No.2	—	vertical	500m