CHAPTER 6

CONCLUSION AND RECOMMENDATION

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6-1 Conclusion

A. SAN CLEMENTE Area

(1) Distribution and scale of the Au-geochemically anomalous zones by trench sampling, and the relation to the SAN SEVERIANO mineralized zone

The anomalous zones are divided into two groups such as the one distributed concentratedly on a large scale in rhyolite found from the eastern-central part to the northeastern part of the area and the other in a stock-like rhyolite in the southern part of the area. In the former, high grade part is found in two sections. One of these occupies an area of 15 meters in average width by more than 100 meters in extension, showing an average grade of 1.18 g/t Au, while the other extends for more than 50 meters with the average width of 12 meters, showing an average grade of 1.5 g/t Au.

As shown in Fig. 6-1, some samples showing high assay values among those taken so far are found to be scattered in the area between the anomalous zone and the SAN SEVERIANO mine, and the zone is open, as a whole, toward the SAN SEVERIANO mine. Therefore, it is strongly possible that the main part of the Au-anomalous zones extend toward the east.

(2) Relation between Au and Ag anomalous zones

It was made clear that the both anomalous zones were not overlapped but distributed in a form of zonal arrangement. Namely, the Au-anomalous zones are distributed in the eastern part of the area to the central part of the rhyolite mass and the Ag-anomalous zones are distributed along near the contact between the rhyolite mass and the underlying tuffaceous conglomerate in the surrounding part of the former. Topographically, the Au-anomalous zones are positioned in the vicinity of the ridge (more than 2,450 m high above sea level) in the eastern part of the area, and the

Ag-anomalous zone on the lower slope in the surrounding part on the side of the foot of the moutain.

(3) Comparison of the assay values of drill cores with those of the surface samples

The assay values of Au of the drill core were generally low as compared with those of the surface samples. In the MJM-3 hole, however, the assay values of gold from about 200 meters to the bottom was generally high showing the highest value of 1.65 g/t Au. This section is positioned at about 70 meters below the surface, which is rather the shallowest part from the standpoint of the depth. Whereas the bottom of the holes such as MJM-1 and 2 are positioned at the depth of about 160 meters below the surface, which is deeper than the above. Furthermore, the two holes were cut through tuffaceous conglomerate near the basement rock underlying the rhyolite mass. On the other hand, the disseminated mineralized zones of sphalerite, galena and chalcopyrite are observed in many places of the two holes.

Taking the above facts into account, the comprehensive consideration of the relation between the two modes of distribution of the geochemically anomalous zones of gold and silver, the mineralization of copper, lead and zinc observed in the drill core and the country rocks of each mineralized zone leads to the conception that the distribution of the mineralized zones of gold and silver and those of copper, lead and zinc suggests a vertical zonal arrangement of the mineralization of the area.

B. PROVIDENCIA Area

(1) Relation between the mineralized zone and the geologic structure

The mineralized zone of the area consists of irregularly massive and partly disseminated ore bodies emplaced along the fracture zones near the faults and fold axes in black flint bearing medium-bedded limestone and the disseminated ore bodies found along the bedding planes of

limestone, among which the former is superior to the latter in both size and grade. The Mina Providencia mineralized zone is the largest in size and the highest in grade among these mineralized zones.

(2) Grade and size

All the ore bodies found in the area consist of oxide ore. The dimension of individual ore bodies is several tens centimeters to several meters in width and a little more than a dozen meters in extension, while in the Mina Providencia mineralized zone, it extends for about 200 meters with the width of two meters along the fault fracture zone of NNW-SSE system.

The ore grades shown are several percent in lead, several tons percent in zinc, n x 10 - n x 100 g/t in silver and very small content in copper.

(3) The result of the drill survey

As the result of drill survey of the two holes of MJM-4 and 5, the mineralized parts were intersected at six places in the MJM-4 hole. Under the microscope, the ore consists of oxides ore mainly of goethite and hematite. The average assay values of the most dominant massive oxide ore found at the depth of 67.00 m - 68.70 m showed 11.87% Pb and 0.68% Zn. Those of oxide ore at 96.72 m - 97.12 m showed 0.13% Pb and 29.16% Zn and those at 57.85 m - 58.10 m, 1.69% Pb and 1.84% Zn. Those of other oxides ores are less than one percent both in lead and zinc, showing a low grade.

No notable mineralization was observed in the MJM-5 hole.

The result of surface geological survey and drill survey showed that the mineralized zones formed with close relation to the fracture zones along fault and fold axis. On the other hand, six mineralized zones were intersected in the MJM-4 hole. All these, however, are still in the oxides zone, and it has been made clear that the sulfide zone which had

been assumed to exist in the depths by the electric survey (IP method) has not been encountered yet.

6-2 Recommendation

While the project is to be finalized by the survey of this phase, the following investigations are recommended to be conducted in the two areas if the mexian side has the intention to continue the survey in future (Fig. 6-1, 6-2, PL. 26 and 27).

(1) SAN CLEMENTE Area:

It is recommended to investigate the distribution of the gold and silver grades on the surface in the area (150 m x 400 m) between the SAN SEVERIANO mine and the eastern limit of the surveyed area in the fourth phase. For this purpose, the following measures are recommended: excavation of trenches in a grid pattern at an interval of 50 meters in a position shown in PL. 26; continuous linear-sampling of rock samples along trenches (channel sampling for every 3-meter interval); analysis of gold and silver on 540 samples from the above area.

If the result were promising, execution of shallow-hole drilling (50 m - 100 m deep) at a regular interval (50 - 100 m) by selecting the stations on the grid to investigate the condition of mineralization in the depths.

(2) PROVIDENCIA Area:

The main subject of the survey would have to be directed to the investigation of the sulfide zone which is estimated to exist in the depths of the mineralized zone distributed along the fold axis and the weak zones. For this purpose, a drill survey consisting of two holes each 500 meters long, one vertical and the other inclined at -70° is recommended to be cut at the locality shown in PL. 27. If a promising result be obtained, the policy for exploration in the next stage is to be worked out.

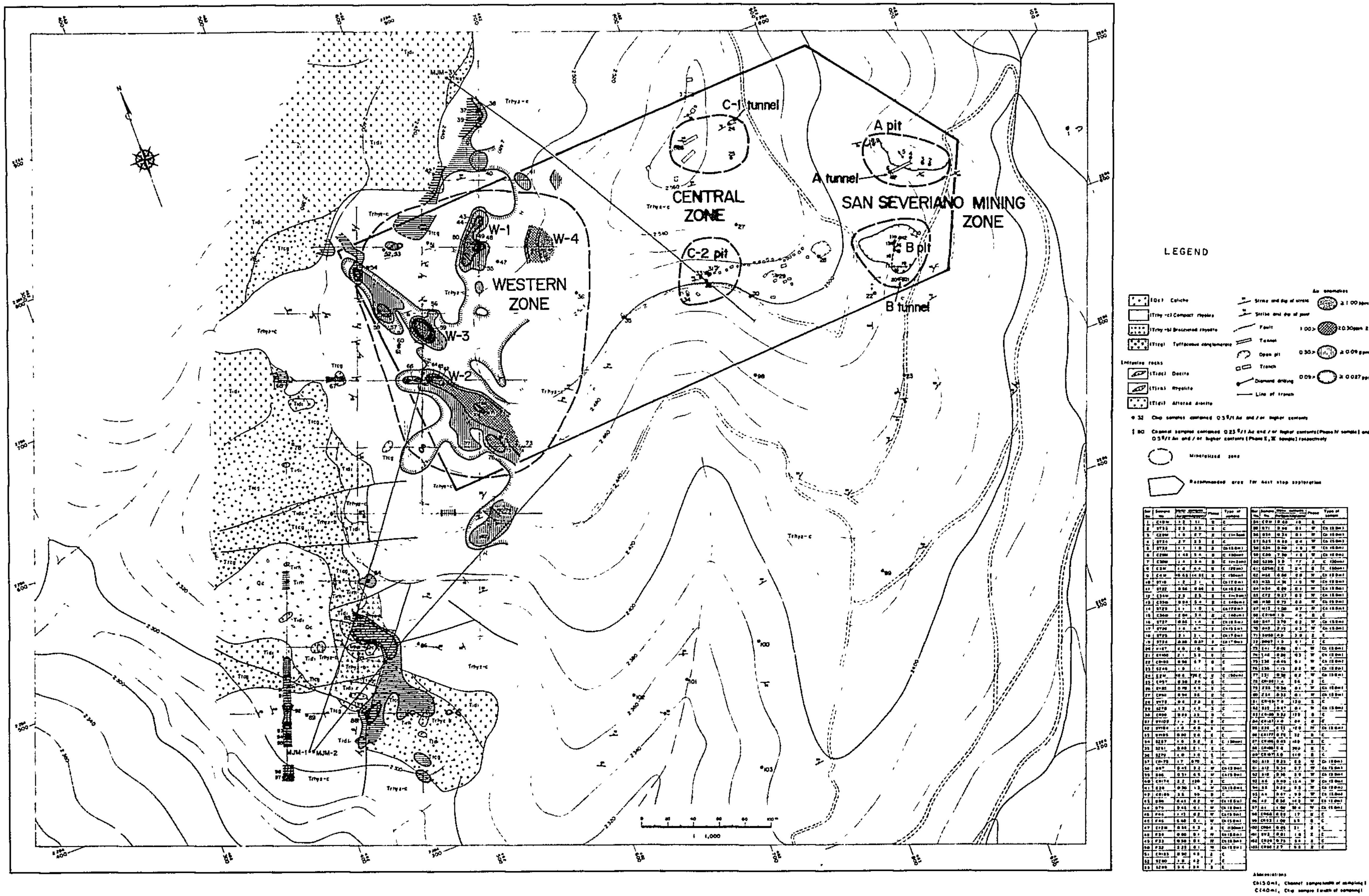
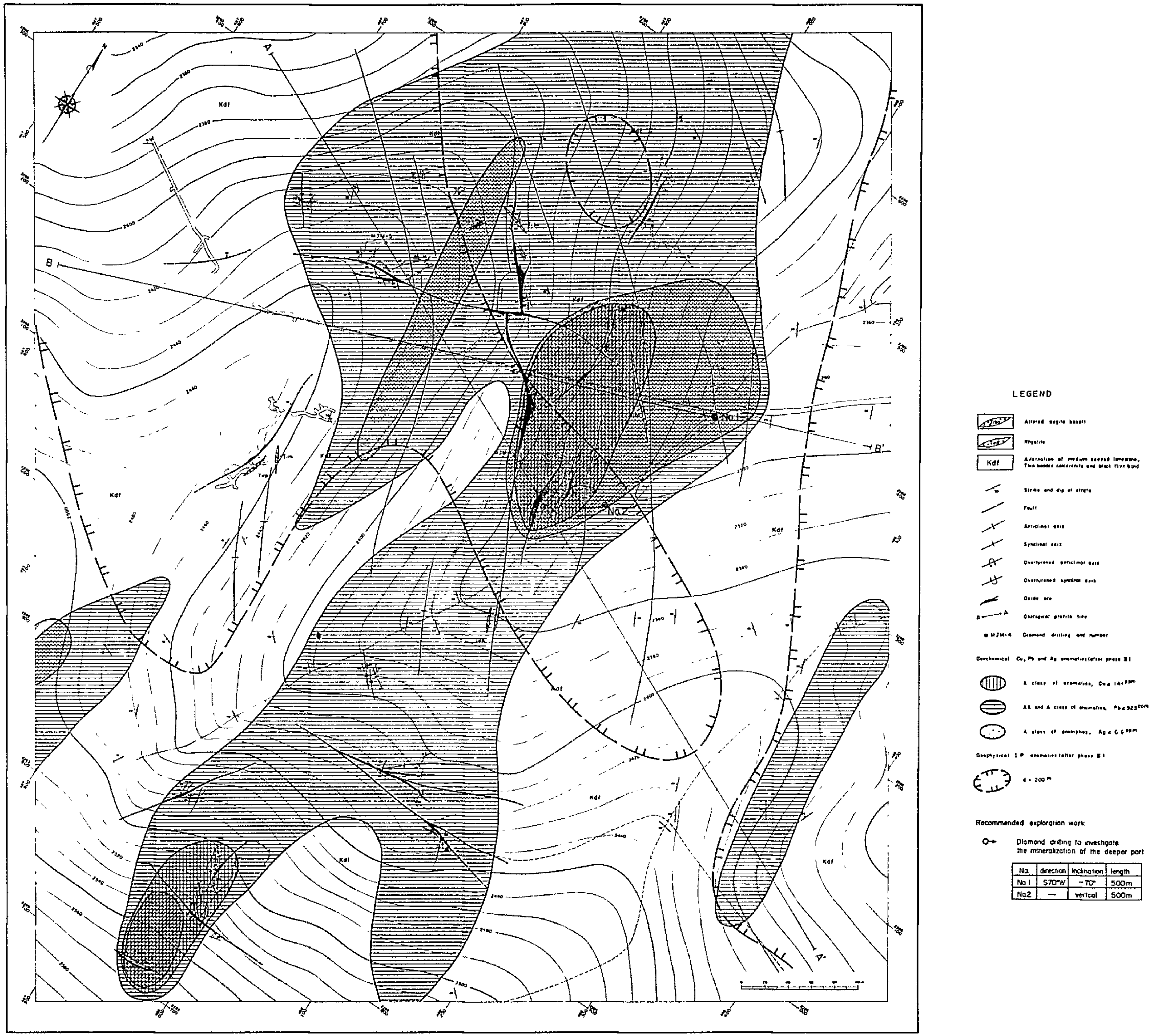


Fig.6-1 Interpretation Map of the SAN SEVERIANO Mining Area, SAN CLEMENTE



No.	direction	Inclination	length
No 1	S70°W	-70°	500m
No2	—	vertical	500m

Fig.6-2 Interpretation Map of the PROVIDENCIA Mining Area, PROVIDENCIA

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APPENDICES

Apx. 1 Microscopic Observations of Rock Thin Section

		Ser. No.	Sample No.	Location Coordinates E	Location Coordinates N	Strati-graphic unit	Rock name	Texture or structure	Primary: qz	af	pl	bi	ho	au	ru	ap	ca	mt	ti	gl	op		Secondary: chl	ep	ca	se	si	k	al	py	op		Remarks
Surface Sample	SAN CLEMENTE	1	SA-2	482384	2284440	Trhy2-C	Rhyolite	porphyritic myrmekite	○	○	◎					•					•												anorthoclase mantle around phenocrystic oligoclase
Surface Sample	SAN CLEMENTE	2	SB-2	482661	2284765	Trhy2-C	Rhyolite	porphyritic	○	○	◎										•												hollocrystalline
Surface Sample	SAN CLEMENTE	3	SB-4	482627	2284671	Trhy2-C	Rhyolite	porphyritic	○	○	◎	•									•				•	•	•	•?				•*	*clay mineral, qz veinlets
Surface Sample	SAN CLEMENTE	4	SB-8	482558	2284482	Trhy2-C	Rhyolite	porphyritic	○		○*1										•		•?						○			○*2	brecciated *1 completely altered to clay mineral *2 clay mineral
Surface Sample	SAN CLEMENTE	5	SC-1	482601	2284734	Trhy2-C	Rhyolite	porphyritic	○		○*							•			•							○?					hollocrystalline * completely altered to clay mineral
Surface Sample	SAN CLEMENTE	6	SC-4	482565	2284634	Trhy2-C	Rhyolite	porphyritic	○	○	◎								•?								•			○			weakly pyritized and silicifized
Surface Sample	SAN CLEMENTE	7	SC-7	482499	2284452	Trhy2-C	Rhyolite	porphyritic	○		○															○	•			○		•*	* clay mineral
Surface Sample	SAN CLEMENTE	8	SD-6	482503	2284610	Trhy2-C	Rhyolite	porphyritic	○		○															○	•			○		•*	* clay mineral
Surface Sample	SAN CLEMENTE	9	SM-5	482470	2284409	Tirh	Brecciated Rhyolite		○		○*				•	•									•	•	○	○		○			* completely replaced by kaolin
Surface Sample	SAN CLEMENTE	10	NB-1	482677	2284812	Trhy2-C	Rhyolite	porphyritic	○		○																	○		○		•*	* clay mineral, similar to SD-6
Surface Sample	SAN CLEMENTE	11	NF-2	482684	2284703	Trhy2-C	Rhyolite	porphyritic	○		○															•		•		•		•*	* titanite
Surface Sample	SAN CLEMENTE	12	NH-1	482458	2284679	Tidi	Altered breccia		○		○*1					•	•		•		•											◎*2	*1 fragment *2 secondary minerals are not distinct
Surface Sample	PROVIDENCIA	13	KP-7	487932	2286357	Kdf	Micritic limestone										◎																microfossil remnants
Surface Sample	PROVIDENCIA	14	KP-10	487822	2286305	—	Quartz-barite rock		◎												•				○		◎				•	◎*1 •*2	heterogeneous in grain size and texture *1 barite *2 clay mineral
Surface Sample	PROVIDENCIA	15	KP-11	487886	2286406	Tiba	Altered augite basalt	doleritic			◎			○						○					○						•	○*	* saponite, calcite veinlets
Drilling Core	SAN CLEMENTE MJM-1	16	DS1-1T (214.00**)	—	—	Tidi	Altered diorite				◎		○?	○?		•							○	○	•						•	•*	medium grained *titamite
Drilling Core	SAN CLEMENTE MJM-1	17	DS1-2T (236.25)	—	—	Tidi	Altered diorite				◎		○*1	○		•							○	○	•						•	•*2	*1 brown hornblende rimmed by green hornblende *2 titanite
Drilling Core	SAN CLEMENTE MJM-1	18	DS1-3T (267.50)	—	—	Ttcg	Altered rhyolitic tuff				◎					•						*	•?		○	•	○		•?		•		* rock fragments showing flow texture
Drilling Core	SAN CLEMENTE MJM-2	19	DS2-1T (297.80)	—	—	Trhy2-C	Rhyolite	porphyritic	○		◎	○				•					•		○	•	•						•		hollocrystalline
Drilling Core	SAN CLEMENTE MJM-3	20	DS3-1T (83.00)	—	—	Trhy2-C	Rhyolite	porphyritic	○	○	◎										•				○					○			hollocrystalline
Drilling Core	SAN CLEMENTE MJM-3	21	DS3-2T (287.50)	—	—	Trhy2-C	Rhyolite	porphyritic	○	○	◎					•					•				○					○			hollocrystalline
Drilling Core	* MJM-4	22	DS4-1T (82.10)	—	—	Kdf	Calcarenite	lamination									◎																foraminiferic remnants, lamina of micritic limestone

* PROVIDENCIA

** depth in m

Abbreviations qz; quartz, af; alkalifeldspar, pl; plagioclase, bi; biotite, ho; hornblende, au; augite, ru; rutile, ap; apatite, ca; carbonate minerals, mt; magnetite, ti; titanite, gl; glass, op; opaque minerals, chℓ; chlorite, ep; epidote, se; sericite, si; silica minerals, k; kaolin, al; albite, py; pyrite

◎··· abundant ○···common • ···rare

Apx.2 Photomicrographs of the Representative Rock Thin Soction

Abbreviation

qz : quartz

pl : plagioclase

bt : biotite

ho : hornblende

au : augite

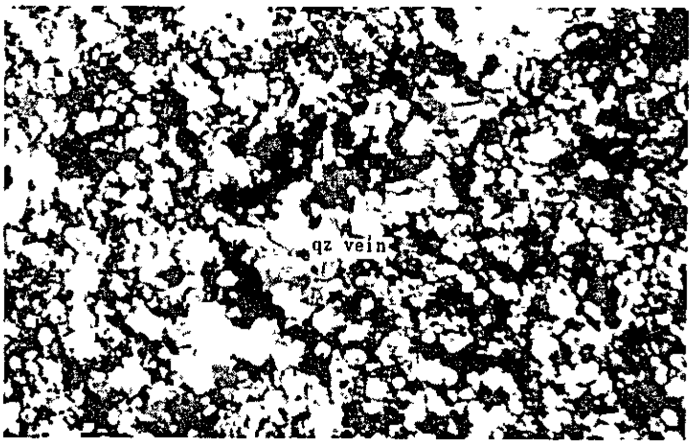
ca : calcite

kao : kaolin

SAN CLEMENTE Area

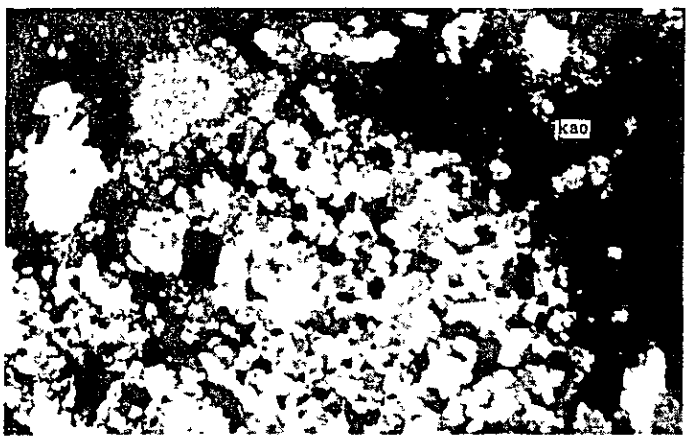
crossed nicols 0 1.0mm

(1) SB－2 (Trhy 2－C)
Rhyolite



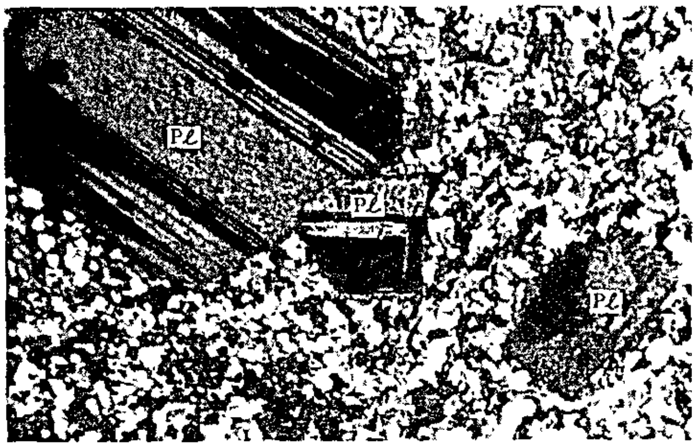
crossed nicols 0 1.0mm

(2) SB－8 (Trhy 2－C)
Rhyolite



crossed nicols 0 1.0mm

(3) SM－5 (Tirh)
Brecciated rhyolite



crossed nicols　　0　1.0mm

(4) NF－2 (Trhy 2－C)
Rhyolite

PROVIDENCIA Area

open nicol　　0　1.0mm

(5) KP－7 (Kdf)
Micritic limestone

crossed nicols　　0　1.0mm

(6) KP－7 (Kdf)

crossed nicols 0 1.0 mm

(7) KP－11 (Tiba)
Altered augite basalt

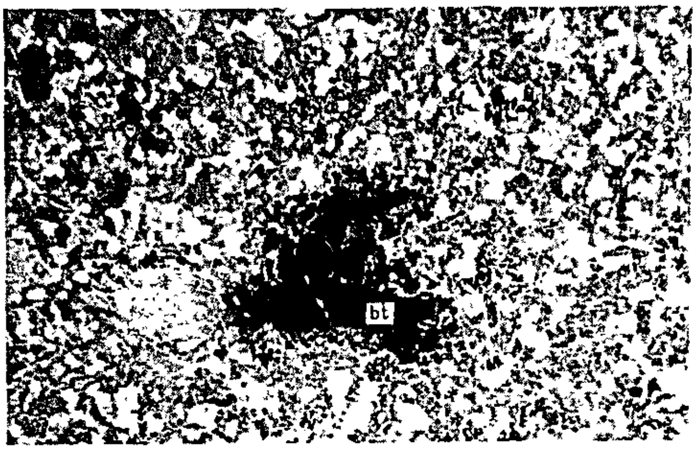
SAN CLEMENTE Area(Drilling core)

open nicol 0 1.0 mm

(8) DSI－2T (Tidi)
Altered diorite

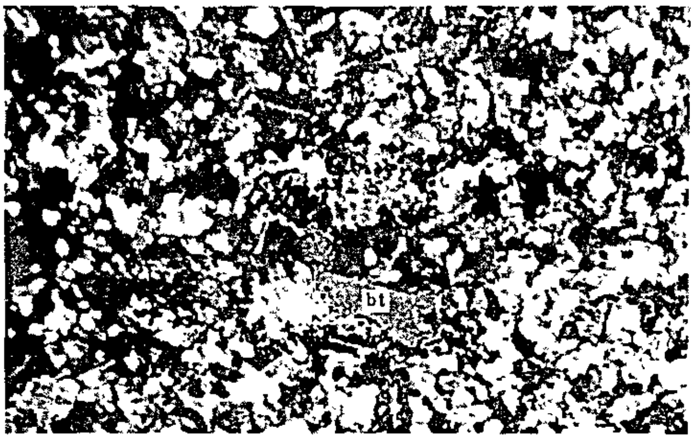
crossed nicols 0 1.0 mm

(9) DSI－2T (Tidi)



open nicol　　0 ——— 1.0mm

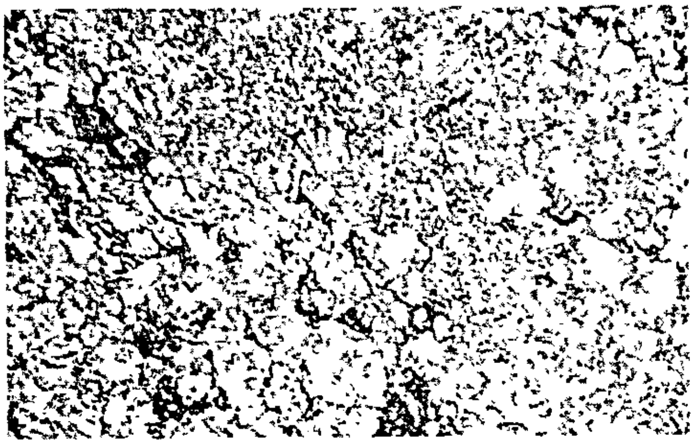
(10) DS2－1T (Trhy 2－C)
Rhyolite



crossed nicols　　0 ——— 1.0mm

(11) DS2－1T (Trhy 2－C)

PROVIDENCIA Area (Drilling core)



open nicol　　0 ——— 1.0mm

(12) DS4－1T (Kdf)
Calcarenite

Apx. 3 Microscopic Observations of Ore Polished Section

Area	Ser No.	Sample No.	Coordinates		✡ Location	Occurrence	Primary mineral								Secondary mineraral					Remarks
			E	N			el	cp	sp	py	he	ru	zr		hm	goe	ce			
SAN CLEMENTE	1	SC-3	482577	2284669	C-C'	black minerals in quartz vein								•*1 •*2	○	○				*1 hausmannite? (MgO≒75%, FeO≒9%) *2 Pb-Ba-Mn mineral (corolite-hollandite?)
	2	SC-4	482565	2284634	C-C'	disseminated black minerals in rhyolite		•				•	•	•*1		○				*1 Mn mineral
	3	SC-6	482484	2284411	C-C'	black minerals in quartz vein			•	•		•		•*		◎				* marcasite
	4	SD-7	482519	2284657	D-D'	black minerals in rhyolite						•		○	•	•				* hausmannite?
	5	SM-5	482470	2284409	M-M'	black minerals in cemented materials of brecciated rhyolite				•		•		•*		○				* Fe-oxide
	6	SL-2	482452	2284468	D-D'	black minerals in cemented materials of brecciated rhyolite				•		•		•		○*2				*1 Mn mineral *2 rhythmic zoning
	7	SD-1	482693	2284806	D-D'	disseminated black minerals in rhyolite						•			○	◎				
	8	KD-2	482541	2284713	D-D'	a little amount of black minerals in rhyolite						•		• *	○	○				* Mn mineral
	9	NE-1	482693	2284753	E-E'	oxides ore filled with fissure	•*			•		•			○	○				* 5μ
	10	SH-1	482491	2284668	H-H'	quartz vein in rhyolite						•			○	○*				* rhythmic growth
PROVIDENCIA	11	KP-1	488048	2286242	P No.1	massive oxides ore				•					◎	◎*				* rhythmic growth
	12	KP-3	488035	2286211	P No.1	disseminated oxides ore									◎	◎				
	13	KP-5	487984	2286283	P No.2	brecciated oxides ore					•?				◎	◎*				* rhythmic growth
	14	KP-8	487793	2286396	T No.10	disseminated oxides ore				•	○?				○	○				zonal texture
	15	KP-9	487822	2286305	P No.6	quarts-barite rock in the oxides zone					○?	•		• *	•	•				* Pb-Mn mineral (corolite?)
	16	VL-a	487982	2286267	P No.2	brecciated oxides ore									◎	○				botryoidal texture
	17	VL-2	487752	2286347	P No.8	brecciated oxides ore									◎	◎				botryoidal texture
	18	VL-3	487857	2286384	T No.8	brecciated oxides ore					◎?			◎*	•	•				* Mn mineral; botryoidal texture
	19	VL-5	487725	2286314	T No.11	brecciated oxides ore								○*		•				* Mn mineral
	20	VL-8	487895	2286390	T No.6	brecciated oxides ore									◎	•				
	21	VL-11	487975	2286508	T No.2	brecciated oxides ore									◎	•	○			
	22	NP-3	487977	2285837	P No.14	porous oxides ore									◎*	○				* zonal growth, botryoidal texture
	23	NP-4	487975	2285841	P No.14	porous oxides ore				•				◎	○	○				* barite
	24	NP-6	488051	2285965	P No.11	brecciated oxides ore									◎	◎				botryoidal texture
	25	NP-10	488084	2285969	P No.12	brecciated oxides ore									○	◎				spheroidal texture

Abbreviations el; electrum, cp; chalcopyrite, sp; sphalerite, he; hemimorphite, ru; rutile
zr; zircon, hm; hematite, goe; goethite, ce; cerussite, py; pyrite
◎··· abundant ○··· common •··· rare
✡ SAN CLEMENTE Area; trench number
PROVIDENCIA Area; open pit and tunnel number

Apx. 4 Microscopic Observations of Ore Polished Section from Diamond Drilling Holes

Area	Drilling No.	Ser. No.	Sample No.	Depth (m)	Occurrence	Primary mineral									Secondary mineral			Remarks
						cp	sp	ga	py	mt	tr	po	ru	gh	hm	goe	bor	
SAN CLEMENTE	MJM-1	1	DS1-1P	63.65	tuffaceous conglomerate, ga,sp,py,cp disseminate in matrix	○	◎*	○	○						○			* strong inner reflection
SAN CLEMENTE	MJM-1	2	DS1-2P	171.60	cp veinlets in rhyolite	•			◎				•		○			
SAN CLEMENTE	MJM-1	3	DS1-3P	196.85	tuffaceous conglomerate py,sp disseminate in matrix	○	◎	◎	◎						•			
SAN CLEMENTE	MJM-1	4	DS1-4P	238.80	bleached rhyolite., py disseminate	•			◎		•		○		•			
SAN CLEMENTE	MJM-1	5	DS1-5P	245.10	veinlets in altered diorite	•	◎	○	○	•					•			
SAN CLEMENTE	MJM-1	6	DS1-6P	247.00	tuffaceous conglomerate, ga,sp,py disseminate in matrix	•	◎	○	○						•	•		
SAN CLEMENTE	MJM-1	7	DS1-7P	271.45	black minerals in brecciated rhyolite				○	•?					○*			* like ophitic texture
SAN CLEMENTE	MJM-2	8	DS2-1P	54.90	tuffaceous conglomerate, sp,py,ga disseminate in matrix	○	◎	○	◎	•		•		•*1 •?			•*2	*1 c ≒ 80% *2 lattice intergrowth with cp
SAN CLEMENTE	MJM-2	9	DS2-2P	70.55	sp,cp filled with fissure in rhyolite	○	◎	○	○		•	•			•			
SAN CLEMENTE	MJM-2	10	DS2-3P	74.50	sp.cp.ga filled with fissure in rhyolite	○	◎	○	•		•				•			
SAN CLEMENTE	MJM-2	11	DS2-4P	88.00	strongly silicified rhyolite	◎	◎	•	◎		•*	•						*in cp
SAN CLEMENTE	MJM-2	12	DS2-5P	176.80	strongly silicified tuffaceous conglomerate	•	◎	◎	○									
SAN CLEMENTE	MJM-2	13	DS2-6P	202.50	rhyolitic tuff, sp,ga disseminated in matrix	•	○	○	○						•			
PROVIDENCIA	MJM-4	14	DS4-1P	58.00	lenticular oxides ore in sedimentary rock										○	◎		botryoidal texture
PROVIDENCIA	MJM-4	15	DS4-2P	67.50	lenticular oxides ore in sedimentary rock										○	◎		
PROVIDENCIA	MJM-4	16	DS4-3P	97.00	lenticular oxides ore in sedimentary rock											◎*		* rhythmic growth

Abbreviation cp; chalcopyrite, sp; sphalerite, ga; galena, py; pyrite, mt; magnetite
tr; tetrahedrite, po; pyrrhotite, ru; rutile, gh; graphite, hm; hematite
goe; goethite, bor; borite

◎··· abundant ○··· common •··· rare

Apx·5Photomicrographs of the Representative Ore Polished Section

Abbreviation

bor	: bornite	hm	: hematite
ce	: cerussite	mt	: magnetite
cp	: chalcopyrite	py	: pyrite
el	: electrum	ru	: rutile
ga	: galena	sp	: sphalerite
goe	: goethite	tr	: tetrahedrite
he	: hemimorphite		

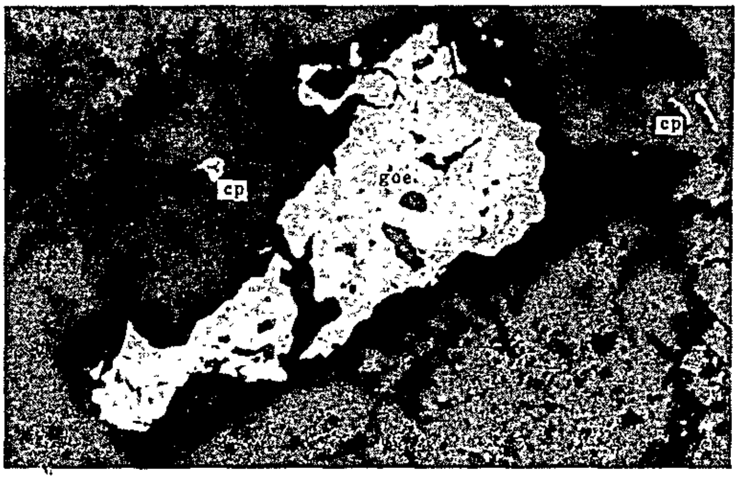
EPMA1 : point of analysis by Electron Probe Microanalyzer(see Apx.8)

SAN CLENENTE Area

(×220)

(1) SC－3

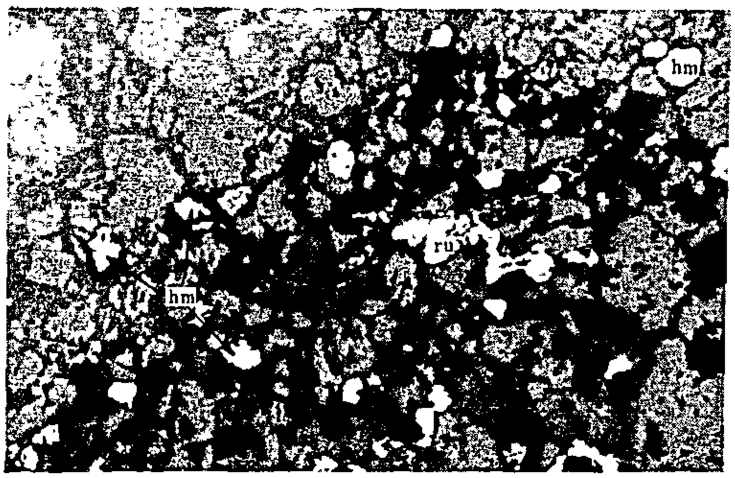
Mn－Pb－Ba mineral and goethite in quartz vein.



(×220)

(2) SC－4

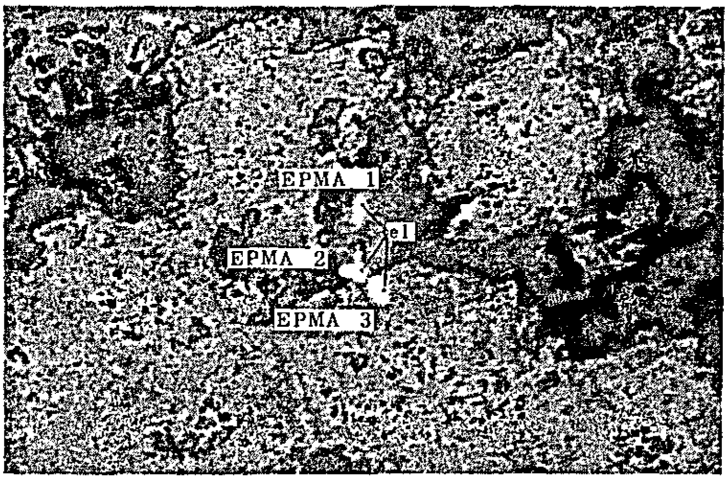
Dissemination of hematite and chalcopyrite in rhyolite.



(×220)

(3) KD－2

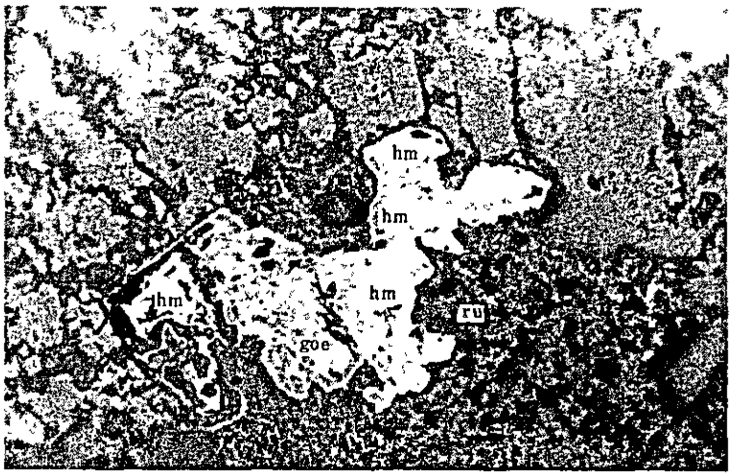
Dissemination of hematite and rutile in rhyolite



(×220)

(4) NE−1

Electrum in oxides ore

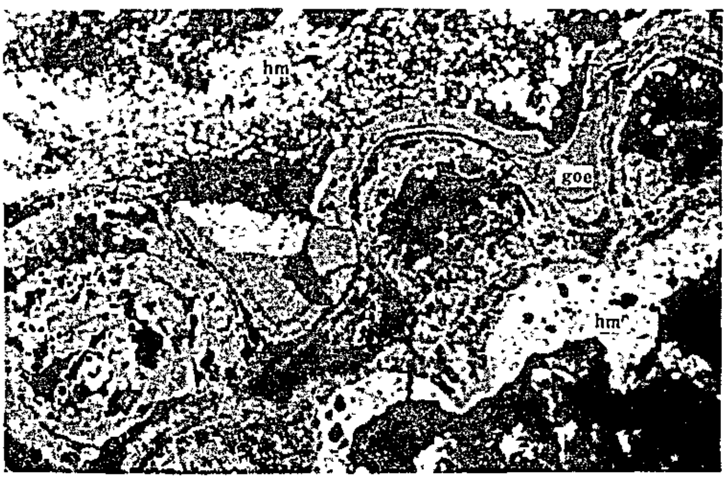


(×220)

(5) SH−1

Hematite core surrounded by goethite showing rhythmic growth and rutile

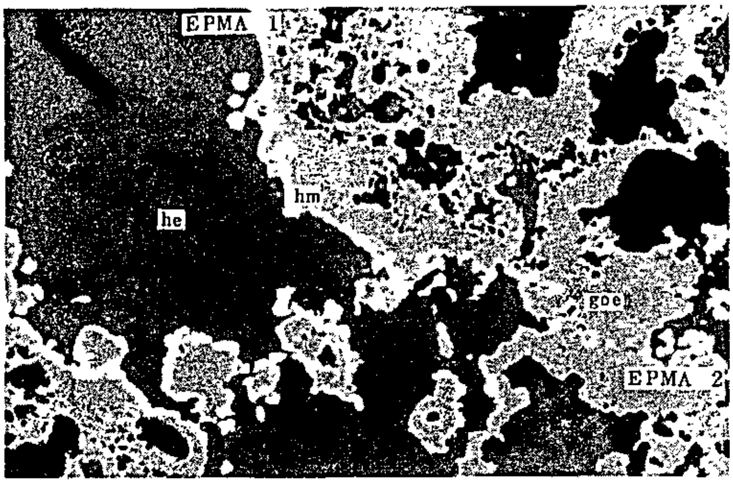
PROVIDENCIA Area



(×220)

(1) KP−1

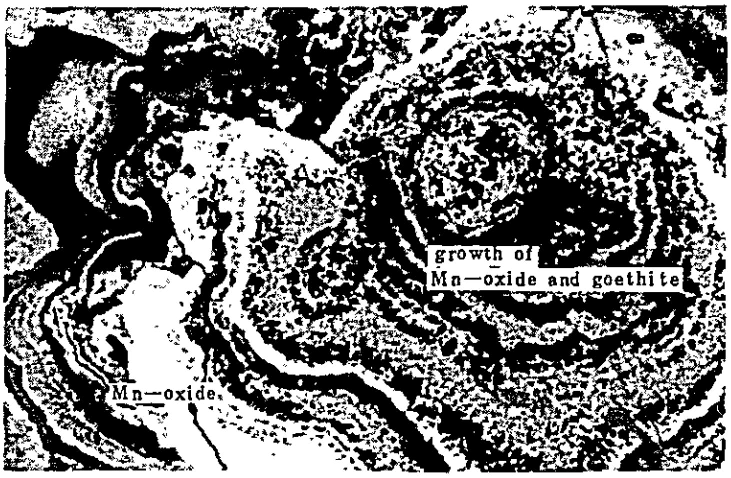
Rhythmic growth of goethite and hematite



(×220)

(2) KP－8

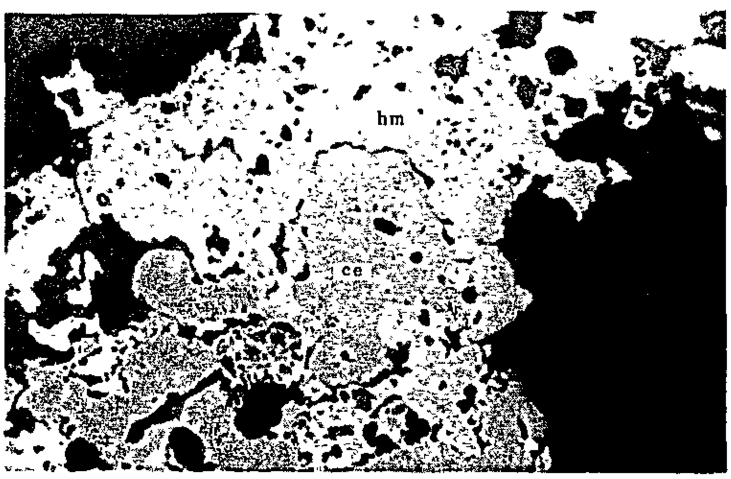
Zonal texture of hemimorphite, hematite and geothite



(×220)

(3) VL－3

Rhythmic growth of Mn－oxide and goethite

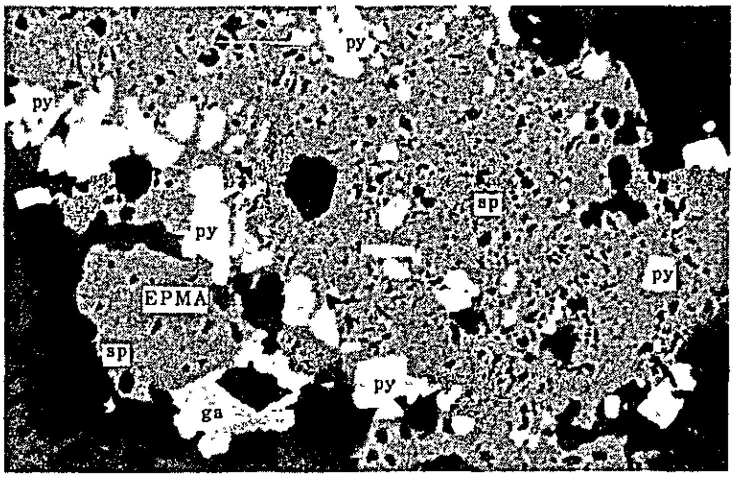


(×220)

(4) VL－11

Cerussite core surrounded by hematite

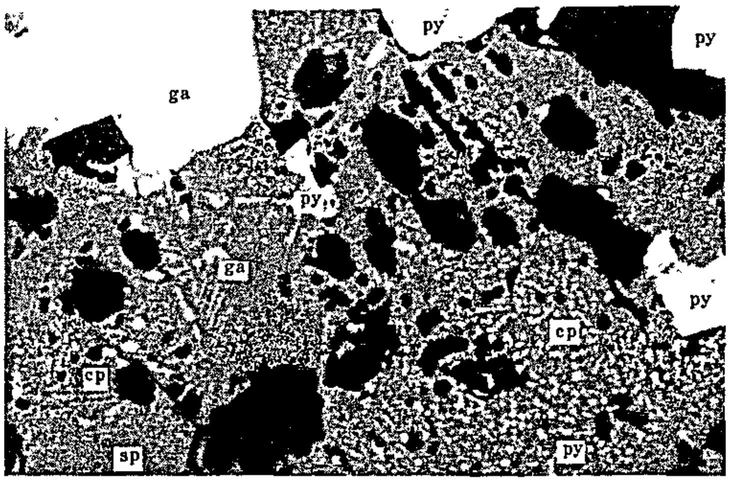
Drilling Core



(×220)

(1) DS1−1P

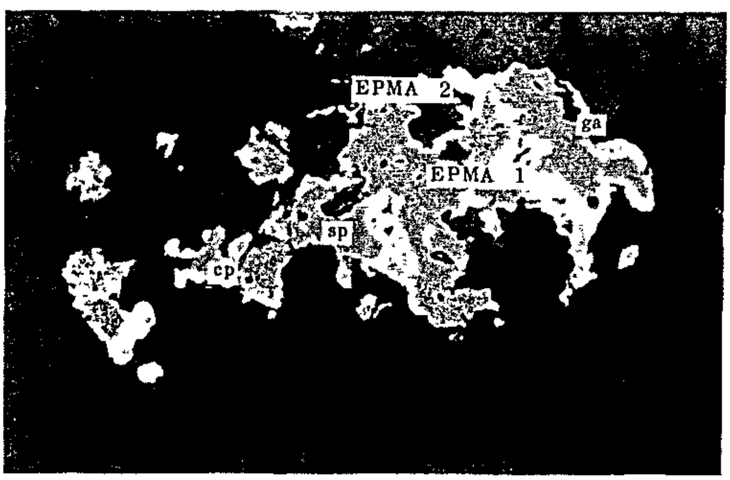
Sphalerite includes galena and subhedral pyrite grain



(×220)

(2) DS1−3P

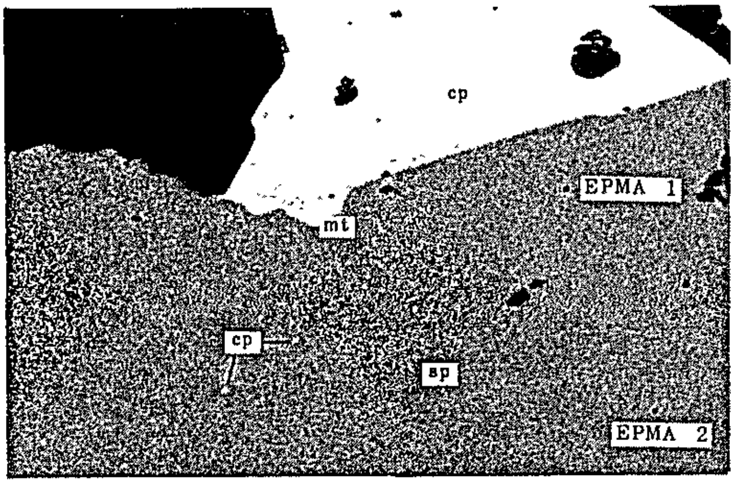
Sphalerite, galena, pyrite, and chalcopyrite in conglomerate



(×220)

(3) DS1−5P

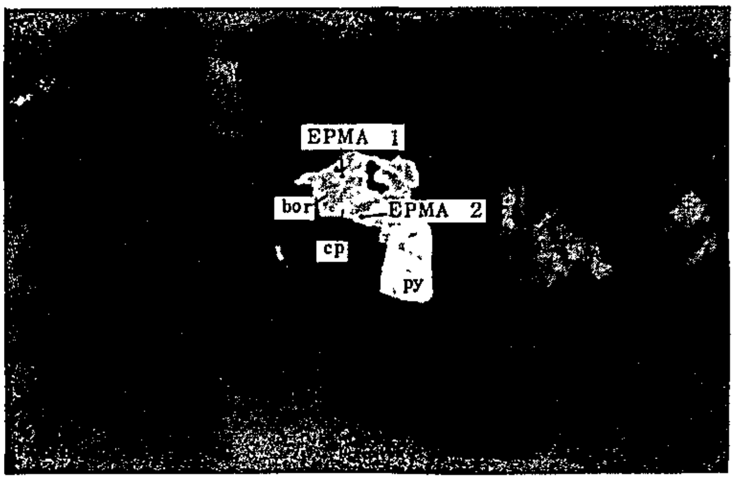
Sphalerite with galena and chalcopyrite marginally



(×220)

(4) DS2−1P

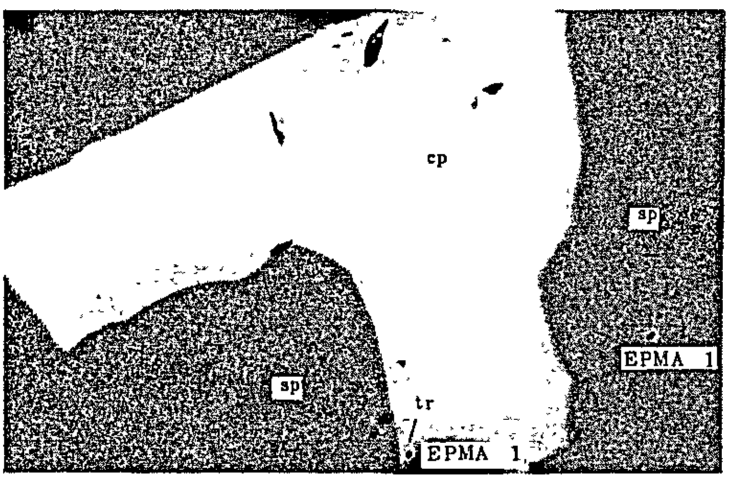
Large sphalerite and chalcopyrite with magnetite



(×220)

(5) DS2−1P

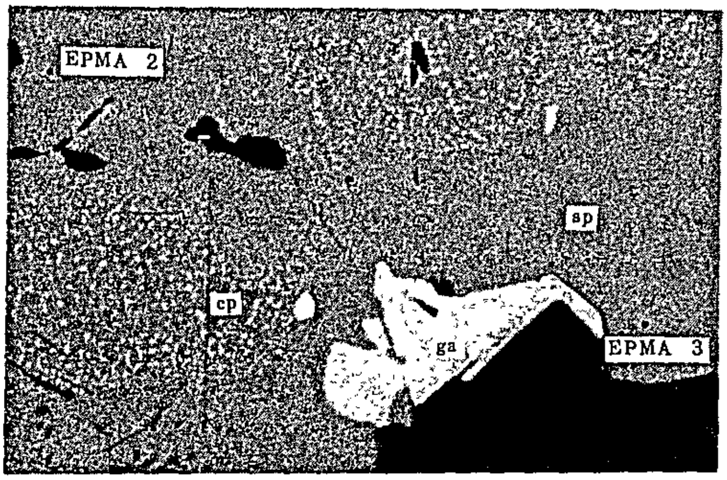
Lattice intergrowth of chalcopyrite and bornite



(×220)

(6) DS2−2P

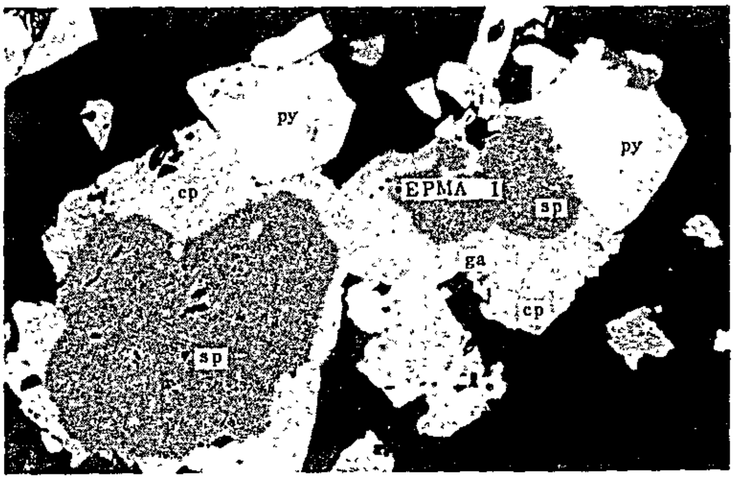
Large sphalerite and chalcopyrite which includes tetrahedrite



(×220)

(7) DS2−2P

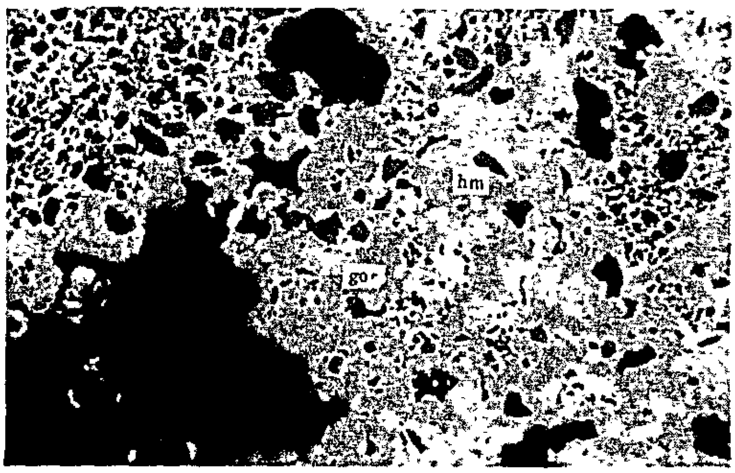
Intergrowth of chalcopyrite and sphalerite



(×220)

(8) DS2−4P

Crowded grain of sphalerite, chalcopyrite, galena and pyrite



(×220)

(9) DS4−1P

Botryoidal texture of goethite and hematite

Apx. 6 Chemical Composition of Rhyolite in the SAN CLEMENTE Area

Ser.	Sample	Coordinates		Chemical Composition (%)																			
No.	No.	E	N	SiO_2	TiO_2	Al_2O_3	Fe_2O_3	MnO	MgO	CaO	Na_2O	K_2O	P_2O_5	BaO	Cr_2O_3	ZrO_2	CuO	LOI	Total	$H_2O(+)$	$H_2O(-)$	FeO	Fe_2O_3
1	S 1W	482632	2284775	79.96	0.06	11.29	0.61	0.06	0.06	0.08	6.81	0.01	0.12	0.00	0.01	0.01	-0.00	0.66	99.73	0.46	0.89	0.10	0.50
2	S 2W	482662	2284764	76.88	0.08	12.04	1.11	0.04	0.14	0.14	2.43	3.62	0.02	0.05	0.01	0.02	0.00	2.10	98.68	1.96	1.29	0.10	1.00
3	S 3W	482706	2284748	78.15	0.06	11.45	0.79	0.01	0.08	0.12	3.05	3.90	0.06	0.05	0.01	0.01	0.00	1.21	98.96	1.15	0.69	0.20	0.57
4	S 4W	482555	2284750	78.19	0.09	11.57	1.35	0.03	0.05	0.09	5.62	0.13	0.05	0.00	0.01	0.01	0.00	1.63	98.85	1.36	0.99	0.20	1.13
5	S 5W	482603	2284733	78.93	0.06	11.46	0.92	0.02	0.11	0.12	4.25	0.12	0.03	0.00	0.01	0.01	0.01	2.29	98.35	1.22	1.10	0.15	0.75
6	S 6W	482645	2284718	80.41	0.07	9.92	1.00	0.01	0.07	0.07	4.67	0.37	0.05	0.00	0.01	0.01	0.01	1.41	98.07	1.19	0.78	0.15	0.83
7	S 7W	482678	2284705	84.77	0.07	9.39	1.07	0.05	0.20	0.13	0.69	0.91	0.09	0.02	0.01	0.01	0.02	2.18	99.62	2.24	0.99	0.20	0.85
8	S 8W	482707	2284695	76.29	0.06	11.73	1.21	0.01	0.16	0.16	2.85	4.78	0.02	0.06	0.01	0.01	0.00	1.23	98.58	0.96	1.10	0.20	0.99
9	S 9W	482484	2284723	77.95	0.11	12.68	0.80	0.06	0.10	0.09	4.43	0.37	0.00	0.00	0.01	0.02	0.00	2.62	99.25	1.74	1.39	0.10	0.69
10	S 10W	482538	2284703	79.04	0.08	11.39	0.63	0.01	0.07	0.15	6.43	0.38	0.01	0.00	0.01	0.02	0.00	0.58	98.82	0.60	0.69	0.25	0.35
11	S11W	482586	2284686	79.29	0.06	10.03	2.14	0.19	0.17	0.19	4.55	0.74	0.29	0.02	0.01	0.01	0.03	1.23	98.95	1.00	1.30	0.20	1.92
12	S12W	482628	2284671	77.01	0.08	11.79	1.12	0.01	0.08	0.11	3.83	3.74	0.01	0.04	0.01	0.02	0.01	1.28	99.13	1.23	0.99	0.15	0.95
13	S13W	482665	2284657	78.08	0.06	11.34	1.27	0.02	0.14	0.14	5.15	1.74	0.04	0.03	0.01	0.01	0.00	0.87	98.89	0.62	0.59	0.20	1.05
14	S14W	482469	2284675	80.26	0.07	10.13	0.91	0.10	0.04	0.06	5.74	0.01	0.08	0.01	0.01	0.01	0.00	0.84	98.29	0.74	0.99	0.20	0.69
15	S15W	482522	2284656	81.06	0.06	10.35	0.91	0.06	0.08	0.10	5.79	0.20	0.37	0.02	0.01	0.01	0.03	0.87	99.89	0.66	1.07	0.15	0.74
16	S16W	482610	2284623	78.26	0.07	11.61	0.97	0.02	0.12	0.13	3.21	3.82	0.01	0.05	0.01	0.01	0.01	1.10	99.39	0.94	1.03	0.10	0.86
17	S17W	482656	2284607	76.90	0.06	12.05	0.90	0.01	0.13	0.11	2.65	4.21	0.08	0.05	0.00	0.01	0.00	1.53	98.70	1.27	1.00	0.20	0.68
18	S18W	482505	2284609	80.15	0.06	10.19	0.66	0.03	0.11	0.09	6.36	0.07	0.02	0.00	0.01	0.01	0.00	0.92	99.42	0.77	0.70	0.10	0.55
19	S19W	482594	2284577	78.90	0.07	11.43	0.69	0.02	0.09	0.06	4.07	2.79	0.02	0.04	0.01	0.01	0.00	1.25	99.45	0.91	0.94	0.15	0.52
20	S20W	482630	2284564	79.85	0.05	11.03	0.72	0.04	0.16	0.03	2.18	3.07	0.04	0.05	0.01	0.01	0.00	2.56	99.80	1.53	0.76	0.10	0.61
21	S21W	482487	2284562	81.05	0.09	12.59	0.30	0.03	0.05	0.05	0.01	0.08	0.16	0.00	0.01	0.01	-0.00	4.81	99.23	2.00	0.92	0.20	0.08
22	S22W	482525	2284548	78.11	0.07	10.31	1.30	0.13	0.14	0.20	4.17	2.29	0.03	0.04	0.03	0.02	0.01	1.29	98.12	1.27	1.06	0.10	1.19
23	S23W	482576	2284530	78.11	0.07	10.56	0.84	0.02	0.10	0.16	4.77	2.20	0.70	0.02	0.02	0.01	0.04	1.12	98.54	1.01	1.43	0.10	0.53
24	S24W	482622	2284513	82.55	0.05	9.74	0.53	0.01	0.05	0.03	0.10	3.37	0.02	0.04	0.01	0.01	0.00	2.63	99.15	1.91	0.97	0.10	0.42
25	S25W	482517	2284498	81.70	0.06	9.93	0.73	0.02	0.18	0.09	5.43	0.40	0.02	0.00	0.02	0.01	0.00	1.08	99.68	0.92	1.49	0.25	0.45
26	S26W	482560	2284482	84.47	0.08	9.07	0.45	0.01	0.06	0.07	0.08	0.54	0.05	0.01	0.02	0.01	0.00	3.85	98.76	2.07	0.50	0.10	0.34
27	S27W	482581	2284474	75.41	0.08	11.87	1.30	0.03	0.13	0.19	3.32	4.90	0.05	0.06	0.03	0.01	0.00	1.06	98.44	0.64	0.52	0.10	1.19
28	S28W	482454	2284467	79.25	0.38	11.93	2.77	0.09	0.12	0.21	0.04	0.42	0.06	0.01	0.03	0.01	0.00	5.08	100.40	1.99	0.79	0.10	2.66
29	S29W	482501	2284451	79.16	0.08	11.54	0.61	0.00	0.13	0.09	6.43	0.08	0.05	0.00	0.02	0.01	0.00	0.80	99.01	0.91	0.87	0.10	0.50
30	S30W	482541	2284436	80.41	0.08	11.06	0.72	0.01	0.08	0.11	5.80	0.36	0.04	0.01	0.02	0.01	0.00	1.17	99.88	0.69	0.76	0.10	0.61
31	S31W	482385	2284439	79.53	0.07	11.47	0.67	0.04	0.04	0.08	6.78	0.33	0.05	0.00	0.03	0.01	0.00	0.49	99.60	0.54	0.57	0.20	0.45
32	S32W	482435	2284421	80.39	0.07	10.79	0.57	0.01	0.10	0.12	6.25	0.48	0.06	0.00	0.02	0.01	0.00	0.72	99.60	0.77	0.44	0.10	0.46
33	S33W	482368	2284398	79.84	0.08	11.07	0.94	0.02	0.12	0.18	5.79	0.36	0.07	0.00	0.01	0.01	0.00	1.49	99.98	0.86	0.80	0.25	0.66

The Fe_2O_3 listed in the Whole Rock Analysis is based on Total Iron.

(Apx. 6 - Continued)

Ser. No.	Sample No.	Coordination E	Coordination N	SiO_2	TiO_2	Al_2O_3	Fe_2O_3	MnO	MgO	CaO	Na_2O	K_2O	P_2O_5	BaO	Cr_2O_3	ZrO_2	CuO	LOI	Total	$H_2O(+)$	$H_2O(-)$	FeO	Fe_2O_3
				Chemical Composition (%)																			
34	S34W	482421	2284383	77.95	0.08	11.45	0.91	0.02	0.06	0.10	6.26	0.06	0.10	0.00	0.01	0.01	-0.00	1.11	98.12	0.88	0.81	0.20	0.69
35	S35W	482471	2284522	78.83	0.09	11.48	0.43	0.02	0.11	0.15	6.21	0.36	0.09	0.00	0.02	0.01	0.00	0.98	98.78	1.00	0.90	0.15	0.26
36	S36W	482564	2284778	77.70	0.08	11.72	1.33	0.01	0.07	0.07	6.15	0.02	0.12	0.00	0.01	0.01	-0.00	1.00	98.29	0.86	0.80	0.20	1.11
37	S37W	482462	2284351	81.21	0.08	9.27	1.86	0.11	0.11	0.14	1.65	0.28	0.08	0.00	0.01	0.01	0.00	3.22	98.04	2.78	0.72	0.15	1.69
38	S38W	482551	2284596	77.98	0.08	11.52	0.81	0.01	0.12	0.10	2.38	3.92	0.04	0.05	0.01	0.01	0.00	1.73	98.75	1.28	0.97	1.10	0.70
39	S39W	482569	2284645	80.76	0.07	10.65	0.90	0.02	0.06	0.10	3.44	0.41	0.03	0.01	0.01	0.01	0.00	2.28	98.76	2.08	0.69	0.25	0.62
40	S40W	482686	2284836	79.15	0.06	11.13	0.76	0.02	0.10	0.08	6.52	0.11	0.02	0.00	0.03	0.01	0.00	0.50	98.50	0.47	0.89	0.20	0.54
average value of 40 Samples				79.35	0.08	11.05	0.96	0.04	0.10	0.11	4.16	1.40	0.08	0.02	0.02	0.01	0.00	1.62	99.01	1.19	0.90	0.16	0.78

Ser. No.	Sample No.	Drill No.	Sample depth (m)	SiO_2	TiO_2	Al_2O_3	Fe_2O_3	MnO	MgO	CaO	Na_2O	K_2O	P_2O_5	BaO	Cr_2O_3	ZrO_2	CuO	LOI	Total	$H_2O(+)$	$H_2O(-)$	FeO	Fe_2O_3*
				Chemical Composition (%)																			
1	DS1-1W	MJM-1	20	77.64	0.07	11.43	0.67	0.03	0.04	0.08	7.07	0.52	0.04	0.00	0.04	0.01	0.00	0.38	98.02	0.35	0.38	0.20	0.45
2	DS1-2W	MJM-1	57	79.37	0.07	10.56	1.80	0.02	0.04	0.13	6.35	0.78	0.04	0.00	0.04	0.01	0.00	0.69	99.92	0.36	0.61	0.10	1.69
3	DS1-3W	MJM-1	258	74.85	0.08	10.96	0.73	0.10	0.21	3.41	5.32	0.55	0.01	0.00	0.04	0.01	0.00	2.04	98.33	0.92	0.56	0.15	0.56
4	DS2-1W	MJM-2	18	79.41	0.07	11.45	0.74	0.03	0.05	0.07	6.97	0.35	0.03	0.00	0.03	0.01	0.00	0.55	99.77	0.39	0.44	0.20	0.52
5	DS2-2W	MJM-2	45	77.91	0.07	11.24	0.99	0.01	0.13	0.18	6.48	0.47	0.05	0.00	0.04	0.01	0.00	0.72	98.31	0.47	0.83	0.15	0.82
6	DS2-3W	MJM-2	211	79.91	0.08	10.63	1.21	0.04	0.17	1.06	5.04	0.33	0.04	0.00	0.03	0.01	0.00	1.79	99.35	1.36	0.68	0.10	1.10
7	DS2-4W	MJM-2	235	79.08	0.07	11.35	0.67	0.02	0.24	0.82	5.44	0.43	0.03	0.00	0.03	0.01	0.00	1.59	99.80	1.11	1.36	0.15	0.50
8	DS2-5W	MJM-2	254	78.30	0.07	11.36	0.90	0.03	0.26	2.24	3.90	0.59	0.05	0.00	0.03	0.02	0.00	2.43	100.19	1.70	1.38	0.20	0.68
9	DS2-6W	MJM-2	268	77.14	0.07	11.36	1.01	0.04	0.22	0.85	5.95	0.45	0.05	0.01	0.03	0.02	0.00	1.21	98.42	0.78	0.69	0.36	0.61
10	DS2-7W	MJM-2	295	75.60	0.07	11.70	1.37	0.03	0.18	0.60	4.20	4.17	0.07	0.06	0.04	0.01	0.00	0.65	98.74	0.57	0.46	0.48	0.84
average value of 10 Samples				77.82	0.07	11.20	1.01	0.04	0.15	0.94	5.67	0.86	0.04	0.01	0.04	0.01	0.00	1.21	99.08	0.80	0.74	0.21	0.78

The Fe_2O_3 listed in the whole Rock Analysis is based on Total Iron.

Apx. 7 Chemical Analysis of Ore Samples

(Ore Showing)

Area	Ser No.	Sample No.	Coordinates E	Coordinates N	Location*	Occurrence	Metal Contents Au g/t	Ag g/t	Cu %	Pb %	Zn %
PROVIDENCIA	1	VL-2M	487752	2286347	PNo. 8	brecciated oxides ore	0.03	3	0.01	0.06	0.72
	2	VL-3M	487857	2286384	TNo. 8	brecciated oxides ore	<0.01	14	0.02	0.55	44.78
	3	VL-5M	487725	2286314	TNo.11	brecciated oxides ore	—	4	Tr.	0.04	37.77
	4	VL-8M	487895	2286390	TNo. 6	brecciated oxides ore	—	10	0.01	6.66	0.90
	5	VL-11M	487975	2286508	TNo. 2	brecciated oxides ore	—	7	Tr.	7.90	1.91
	6	VL-aM	487982	2286267	PNo. 2	brecciated oxides ore	<0.01	12	0.02	1.18	7.61
	7	NP-2M	487972	2285791	PNo.14	brecciated oxides ore	0.05	15	0.01	2.34	18.96
	8	NP-3M	487977	2285837	PNo.14	porous oxides ore	0.01	8	0.01	1.63	4.08
	9	NP-5M	488049	2285965	PNo.11	brecciated oxides ore	<0.01	6	0.02	1.98	4.65
	10	NP-7M	488047	2285964	PNo.11	brecciated oxides ore	—	7	0.02	1.93	3.97
	11	NP-8M	488107	2285953	PNo.13	brecciated oxides ore	—	4	0.02	1.33	2.62
	12	NP-9M	488083	2285969	PNo.12	brecciated oxides ore	—	5	Tr.	0.93	23.76
	13	NP-10M	488084	2285969	Pno.12	brecciated oxides ore	<0.01	3	Tr.	0.91	6.41
	14	O14-1M	487761	2286240	TNo. 1	oxided shale	—	3	0.01	0.01	0.22
	15	KP-1M	488048	2286242	PNo. 1	massive oxides ore	0.01	11	0.01	6.06	0.52
	16	KP-2M	488048	2286242	PNo. 1	massive oxides ore	—	10	0.03	2.56	2.63
	17	KP-3M	488035	2286211	PNo. 1	disseminated oxides ore	—	13	0.08	1.38	41.78
	18	KP-4M	487915	2286292	PNo. 2	brecciated oxides ore	0.01	19	0.01	0.94	32.87
	19	KP-6M	487951	2286337	PNo. 3	brecciated oxides ore	0.03	21	0.05	8.80	33.39
	20	KP-8M	487793	2286396	TNo.10	disseminated oxides ore	—	18	0.01	10.28	25.71
	21	KP-9M	487822	2286305	PNo. 6	quartz-barite rock in the oxide zone	—	8	0.04	0.24	43.25
SAN CLE-MENTE	22	KD-1	482509	2284632	D-D'	brecciated quartz vein	0.02	0.2	—	—	—
	23	SHQ-1	482535	2284652	H-H'	silicious brecciated rhyolite	0.10	1.0	—	—	—

*SAN CLEMENTE Area; trench number
PROVIDENCIA Area; open pit and tunnel number

(Core Sample)

Area	Ser No.	Sample No.	Depth (m)	Thick-ness (m)	Occurrence	Metal Contents Au g/t	Ag g/t	Cu %	Pb %	Zn %
SAN CLEMENTE	24	DS1-1M	62.00 ～ 63.00	1.00	strongly py.diss.,62.80～62.82;qtz.vein with sp.,cp.,py.	—	4	0.04	0.14	0.49
	25	DS1-2M	63.00 ～ 64.00	1.00	strongly py.diss., sp. spot	—	3	0.01	0.14	0.53
	26	DS1-3M	244.00～245.00	1.00	strongly py.diss., 244.80～245.10; sheared zone	—	3	0.08	0.30	0.94
	27	DS1-4M	298.00～299.00	1.00	strongly py.diss., weakly sp. diss.	—	3	Tr.	0.08	0.25
	28	DS2-1M	70.00 ～ 71.00	1.00	70.50～70.55;ga.,sp.,cp.,spot,70.70～70.33.white clay	—	3	Tr.	0.12	0.06
	29	DS2-2M	74.00 ～ 75.00	1.00	weakly silicified 74.25～74.65; sp.,ga.,cp. spot	—	5	0.02	0.16	0.59
	30	DS2-3M	174.00～175.00	1.00	174.70～179.65; strongly py.diss.,sp.,ga.,cp., diss. 177.00～179.65; strongly sp., ga. diss. 178.30～178.70; strongly silicified	—	3	0.01	0.48	0.81
	31	DS2-4M	175.00～176.00	1.00		—	2	Tr.	1.48	3.74
	32	DS2-5M	176.00～177.00	1.00		—	2	0.01	0.33	0.78
	33	DS2-6M	177.00～178.00	1.00		—	3	0.02	1.63	3.45
	34	DS2-7M	178.00～179.00	1.00		—	3	0.03	1.50	4.68
	35	DS2-8M	202.00～203.00	1.00	202.00～204.00 strongly silicified and py.diss. weakly sp., ga., diss.	—	1	Tr.	0.14	0.47
	36	DS2-9M	203.00～204.00	1.00		—	1	Tr.	0.16	0.12
PROVIDENSIA	37	DP4-1	18.05 ～ 18.20	0.15	massive oxides ore	—	6	Tr.	0.02	0.11
	38	DP4-2	57.85 ～ 58.10	0.25	massive oxides ore with calcite vein	—	7	Tr.	1.69	1.84
	39	DP4-3	58.10 ～ 58.40	0.30	massive oxides ore	—	7	Tr.	0.58	0.76
	40	DP4-4	67.00 ～ 67.70	0.70	massive oxides ore	—	12	0.01	1.32	0.64
	41	DP4-5	67.70 ～ 68.70	1.00	brecciated oxides ore	—	14	0.01	2.25	0.70
	42	DP4-6	72.35 ～ 72.62	0.27	slime	—	6	0.01	0.32	0.71
	43	DP4-7	96.72 ～ 97.12	0.40	massive oxides ore with calcite veinlets	—	4	0.01	0.13	29.16

Abbreviations py.; pyrite, sp.; sphalerite, cp.; chalcopyrite, ga.; galena,
qtz.; quartz, diss.; dissemination
—; not assayed, Tr.; trace

Apx. 8 Quantitative Analysis of Ore Minerals by Electron Probe Microanalyzer

	sample	Electrum			Tetrahedrite				Sphalerite												Bornite	
		NE-1			DS1-4P	DS2-2P	DS2-3P	DS2-4P	DS1-1P		DS1-5P				DS2-1P		DS2-2P			DS2-4P	DS2-1P	
element		1	2	3	1	1	1	1	1	2	1	2	3	4	1	2	1	2	3	1	1	2
Weight %	Au	76.3	77.0	76.7																		
	Ag	23.2	21.8	21.8	0.3	13.1	4.3	12.0													0.5	0.3
	Cu				36.1	28.2	36.2	29.4	0.2	0.2	0.5	0.5	0.3	1.5	0.5	0.4	0.2	0.2	0.2	1.6	62.5	61.9
	Zn				6.3	7.6	3.6	2.2	65.1	64.4	64.5	65.2	65.4	63.3	64.3	63.4	65.0	66.4	64.0	61.9		
	Fe				4.8	1.8	1.0	7.1	2.1	1.5	1.4	0.1	1.0	0.8	1.4	1.8	1.1	1.2	2.4	2.8	11.8	12.0
	Mn								—	—	—	—	—	—	—	—	—	—	—	—		
	Cd								0.5	0.5	0.5	0.7	0.5	0.4	0.6	0.6	0.6	0.6	0.6	0.6		
	As				2.1	1.3	1.5	1.4														
	Sb				26.7	26.6	26.4	26.6														
	S				24.7	22.5	25.2	22.8	32.8	32.8	33.0	31.7	32.9	32.6	33.5	33.0	33.4	32.6	32.8	32.6	25.8	25.5
	Total	99.4	98.8	98.5	101.0	101.2	98.2	101.5	100.6	99.4	99.9	98.1	100.1	98.6	100.3	99.2	100.3	100.9	100.1	99.4	100.5	99.7
Atomic %	Au	64.3	65.9	65.8																		
	Ag	35.7	34.1	34.2	0.2	7.4	2.3	6.6													0.2	0.2
	Cu				32.1	26.9	33.5	27.5	0.1	0.1	0.4	0.4	0.2	1.2	0.4	0.3	0.1	0.1	0.2	1.2	49.1	49.1
	Zn				5.4	7.0	3.2	2.0	48.3	48.3	48.1	49.8	48.7	47.8	47.6	47.5	48.2	49.3	47.6	46.4		
	Fe				4.9	1.9	1.0	7.5	1.8	1.3	1.2	0.1	0.9	0.7	1.2	1.6	0.9	1.0	2.1	2.4	10.6	10.8
	Mn								—	—	—	—	—	—	—	—	—	—	—	—		
	Cd								0.2	0.2	0.2	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3		
	As				1.6	1.0	1.2	1.1														
	Sb				12.4	13.2	12.7	13.0														
	S				43.6	42.6	46.1	42.2	49.6	50.1	50.2	49.4	50.0	50.1	50.6	50.4	50.5	49.4	49.9	49.8	40.1	40.0

sample / element	Zn-Silicate (weight%)			
	KP-8		KP-9	
	1	2	1	2
SiO_2	23.55	23.35	22.99	23.28
TiO_2	—	0.01	0.01	—
Al_2O_3	0.09	0.09	0.09	0.10
FeO	0.04	0.03	0.03	0.02
ZnO	67.64	68.82	67.94	66.68
MnO	0.05	0.02	—	0.01
CaO	0.28	0.42	0.03	0.03
Total	91.66	92.73	91.08	90.11

Apx. 9 Analytical Value of Rock Samples for Geochemical Exploration in the SAN CLEMENTE Area

Ser.No.	Samp.No.	Au	Ag
1	A - 1	1.60	35.4
2	A - 2	0.58	14.3
3	A - 3	0.01	0.2
4	A - 4	0.47	9.8
5	A - 5	0.28	6.5
6	A - 6	0.40	13.4
7	A - 7	0.02	0.1
8	A - 8	0.01	0.4
9	A - 9	0.20	4.1
10	A - 10	0.36	5.9
11	A - 11	0.17	1.8
12	A - 12	0.34	8.7
13	A - 13	0.25	5.9
14	A - 14	0.18	4.0
15	A - 15	0.14	1.6
16	A - 16	0.09	1.5
17	A - 17	0.23	3.2
18	A - 18	0.03	0.1
19	A - 19	0.05	< 0.1
20	A - 20	0.02	0.1
21	A - 21	0.03	< 0.1
22	A - 22	0.01	0.1
23	A - 23	0.03	0.4
24	A - 24	0.09	< 0.1
25	A - 25	0.01	0.1
26	A - 26	0.04	0.7
27	A - 27	0.04	0.3
28	A - 28	0.01	0.3
29	A - 29	0.01	0.3
30	A - 30	< 0.01	0.5
31	A - 31	0.02	2.7
32	A - 32	0.04	0.4
33	A - 33	0.01	0.1
34	A - 34	0.07	0.1
35	A - 35	< 0.01	0.2
36	A - 36	0.01	0.1
37	A - 37	0.04	1.1
38	A - 38	0.01	0.1
39	A - 39	0.02	0.1
40	A - 40	0.02	0.3
41	A - 41	0.03	1.6
42	A - 42	0.02	< 0.1
43	A - 43	0.02	0.1
44	A - 44	< 0.01	0.2
45	A - 45	0.03	0.2
46	A - 46	0.03	0.1
47	A - 47	0.02	< 0.1
48	A - 48	0.02	0.1
49	A - 49	0.02	0.1
50	A - 50	0.01	0.2
51	A - 51	< 0.01	0.2
52	A - 52	0.01	0.1
53	A - 53	0.01	0.2
54	A - 54	0.02	0.5
55	A - 55	0.02	0.2
56	A - 56	0.02	0.3
57	A - 57	0.03	0.3
58	A - 58	0.01	< 0.1
59	B - 1	< 0.01	0.1
60	B - 2	< 0.01	0.1
61	B - 3	0.01	0.1
62	B - 4	< 0.01	0.1
63	B - 5	0.05	0.1
64	B - 6	< 0.01	0.1
65	B - 7	0.02	0.3
66	B - 8	< 0.01	0.1
67	B - 9	< 0.01	0.1
68	B - 10	< 0.01	0.1
69	B - 11	0.01	0.2
70	B - 12	< 0.01	0.1
71	B - 13	< 0.01	0.1
72	B - 14	< 0.01	0.1
73	B - 15	< 0.01	0.2
74	B - 16	< 0.01	0.1
75	B - 17	0.01	0.1
76	B - 18	< 0.01	0.1
77	B - 19	0.02	0.2
78	B - 20	< 0.01	0.1
79	B - 21	< 0.01	0.1
80	B - 22	0.47	0.1
81	B - 23	0.22	0.4
82	B - 24	0.05	0.1
83	B - 25	< 0.01	0.1
84	B - 26	0.10	0.3
85	B - 27	< 0.01	0.1
86	B - 28	0.03	1.6
87	B - 29	< 0.01	0.2
88	B - 30	< 0.01	0.2
89	B - 31	< 0.01	0.1
90	B - 32	0.01	1.0
91	B - 33	0.01	0.2
92	B - 34	< 0.01	0.7
93	B - 35	< 0.01	0.6
94	B - 36	0.01	0.1
95	B - 37	0.03	0.1
96	B - 38	0.02	0.6
97	B - 39	0.04	0.1
98	B - 40	0.10	0.1
99	B - 41	0.02	0.1
100	B - 42	0.07	0.1
101	B - 43	0.10	0.6
102	B - 44	0.20	0.1
103	B - 45	2.15	0.3
104	B - 46	0.05	0.1
105	B - 47	2.70	0.2
106	B - 48	0.01	0.1
107	B - 49	0.01	0.1
108	B - 50	0.19	0.2
109	B - 51	< 0.01	0.6
110	B - 52	0.01	0.1
111	B - 53	0.01	0.1
112	B - 54	0.03	0.2
113	B - 55	0.09	0.1
114	B - 56	0.04	1.1
115	B - 57	0.07	0.2
116	B - 58	< 0.01	0.1
117	B - 59	0.06	0.1
118	B - 60	0.10	0.3
119	B - 61	0.01	0.3
120	B - 62	0.02	0.1
121	B - 63	0.03	0.3
122	B - 64	0.07	0.1
123	B - 65	0.02	0.4
124	B - 66	0.09	0.1
125	B - 67	0.16	0.1
126	B - 68	0.02	0.2
127	B - 69	0.04	0.1
128	B - 70	0.04	0.1
129	B - 71	0.45	0.1
130	B - 72	0.05	0.2
131	B - 73	0.07	0.2
132	B - 74	0.15	0.1
133	B - 75	0.01	0.1
134	B - 76	0.02	0.3
135	B - 77	0.01	0.1
136	B - 78	0.03	0.2
137	B - 79	0.45	0.1
138	B - 80	0.65	0.2
139	B - 81	0.03	0.1
140	B - 82	< 0.01	0.1
141	B - 83	< 0.01	0.1
142	B - 84	< 0.01	0.3
143	B - 85	< 0.01	0.1
144	B - 86	< 0.01	0.1
145	B - 87	< 0.01	0.1
146	B - 88	< 0.01	0.1
147	B - 89	0.10	4.5
148	B - 90	< 0.01	0.1
149	B - 91	0.01	0.1
150	B - 92	< 0.01	0.1
151	B - 93	< 0.01	0.2
152	B - 94	0.01	0.2
153	B - 95	< 0.01	0.1
154	B - 96	0.31	6.5
155	B - 97	0.45	3.2
156	B - 98	< 0.01	0.1
157	B - 99	< 0.01	0.1
158	B -100	0.01	0.3
159	B -101	< 0.01	0.1
160	B -102	< 0.01	0.1
161	B -103	< 0.01	0.1
162	B -104	< 0.01	0.1
163	B -105	< 0.01	0.1
164	C - 1	0.02	0.1
165	C - 2	< 0.01	0.1
166	C - 3	0.01	2.1
167	C - 4	< 0.01	0.3
168	C - 5	0.01	1.2
169	C - 6	0.01	0.5
170	C - 7	0.03	1.9
171	C - 8	< 0.01	0.1
172	C - 9	0.01	0.2
173	C - 10	< 0.01	0.1
174	C - 11	0.02	0.1
175	C - 12	0.03	0.4
176	C - 13	0.01	0.3
177	C - 14	< 0.01	0.2
178	C - 15	< 0.01	0.5
179	C - 16	0.04	1.9
180	C - 17	0.02	1.4
181	C - 18	< 0.01	0.5
182	C - 19	< 0.01	0.5
183	C - 20	0.01	0.6
184	C - 21	< 0.01	0.5
185	C - 22	< 0.01	0.3
186	C - 23	< 0.01	0.3
187	C - 24	< 0.01	0.6
188	C - 25	< 0.01	0.2
189	C - 26	< 0.01	0.1
190	C - 27	< 0.01	0.1
191	C - 28	< 0.01	0.1
192	C - 29	0.01	0.5
193	C - 30	< 0.01	0.2
194	C - 31	< 0.01	0.1
195	C - 32	< 0.01	0.1
196	C - 33	< 0.01	0.1
197	C - 34	< 0.01	0.1
198	C - 35	< 0.01	0.4
199	C - 36	< 0.01	0.1
200	C - 37	< 0.01	0.1

(Apx.9 Continued)

Ser.No.	Samp.No.	Au	Ag
201	C - 38	0.01	0.1
202	C - 39	< 0.01	0.2
203	C - 40	0.01	0.2
204	C - 41	< 0.01	0.2
205	C - 42	< 0.01	0.1
206	C - 43	< 0.01	0.1
207	C - 44	0.01	0.1
208	C - 45	< 0.01	0.1
209	C - 46	0.01	0.2
210	C - 47	0.04	0.1
211	C - 48	< 0.01	0.1
212	C - 49	0.02	0.2
213	C - 50	0.02	0.1
214	C - 51	0.02	0.1
215	C - 52	< 0.01	0.1
216	C - 53	0.01	0.1
217	C - 54	0.03	0.1
218	C - 55	0.02	0.4
219	C - 56	< 0.01	0.1
220	C - 57	< 0.01	0.3
221	C - 58	< 0.01	0.2
222	C - 59	< 0.01	0.3
223	C - 60	0.16	0.3
224	C - 61	0.07	0.1
225	C - 62	< 0.01	0.1
226	C - 63	0.23	0.1
227	C - 64	< 0.01	0.1
228	C - 65	< 0.01	0.1
229	C - 66	< 0.01	0.1
230	C - 67	< 0.01	0.1
231	C - 68	< 0.01	0.1
232	C - 69	< 0.01	0.2
233	C - 70	< 0.01	0.1
234	C - 71	0.02	0.1
235	C - 72	0.27	0.3
236	C - 73	< 0.01	0.1
237	C - 74	0.02	0.1
238	C - 75	< 0.01	0.2
239	C - 76	0.04	0.3
240	C - 77	0.03	0.1
241	C - 78	0.02	0.1
242	C - 79	0.02	0.1
243	C - 80	7.90	1.5
244	C - 81	< 0.01	0.4
245	C - 82	< 0.01	0.2
246	C - 83	0.03	0.1
247	C - 84	0.02	0.1
248	C - 85	< 0.01	0.2
249	C - 86	< 0.01	0.1
250	C - 87	0.02	0.1
251	C - 88	< 0.01	0.3
252	C - 89	< 0.01	0.4
253	C - 90	< 0.01	0.3
254	C - 91	0.04	0.3
255	C - 92	0.01	0.4
256	C - 93	0.08	0.1
257	C - 94	< 0.01	0.1
258	C - 95	0.01	1.3
259	C - 96	0.01	1.3
260	C - 97	0.01	3.0
261	C - 98	0.06	0.4
262	C - 99	< 0.01	0.1
263	C -100	0.04	0.1
264	D - 1	< 0.01	0.3
265	D - 2	< 0.01	0.3
266	D - 3	< 0.01	0.2
267	D - 4	< 0.01	0.3
268	D - 5	< 0.01	0.6
269	D - 6	< 0.01	0.8
270	D - 7	0.02	0.7
271	D - 8	< 0.01	0.9
272	D - 9	< 0.01	0.4
273	D - 10	< 0.01	0.4
274	D - 11	< 0.01	0.3
275	D - 12	0.12	0.5
276	D - 13	0.02	0.7
277	D - 14	< 0.01	0.3
278	D - 15	0.01	0.8
279	D - 16	< 0.01	0.3
280	D - 17	0.08	0.6
281	D - 18	0.08	2.4
282	D - 19	0.03	2.1
283	D - 20	< 0.01	0.5
284	D - 21	< 0.01	0.5
285	D - 22	< 0.01	0.1
286	D - 23	< 0.01	0.4
287	D - 24	0.03	0.6
288	D - 25	0.02	1.0
289	D - 26	0.16	6.8
290	D - 27	0.02	0.6
291	D - 28	0.33	12.9
292	D - 29	< 0.01	0.1
293	D - 30	< 0.01	0.1
294	D - 31	< 0.01	0.1
295	D - 32	0.01	0.5
296	D - 33	< 0.01	0.1
297	D - 34	< 0.01	0.1
298	D - 35	< 0.01	0.2
299	D - 36	< 0.01	0.1
300	D - 37	< 0.01	0.2
301	D - 38	< 0.01	0.1
302	D - 39	< 0.01	0.1
303	D - 40	< 0.01	0.6
304	D - 41	< 0.01	0.3
305	D - 42	< 0.01	0.1
306	D - 43	0.01	0.1
307	D - 44	< 0.01	0.1
308	D - 45	0.01	0.1
309	D - 46	< 0.01	0.1
310	D - 47	< 0.01	0.1
311	D - 48	< 0.01	0.1
312	D - 49	< 0.01	0.1
313	D - 50	< 0.01	0.1
314	D - 51	< 0.01	0.1
315	D - 52	< 0.01	0.1
316	D - 53	< 0.01	0.1
317	D - 54	< 0.01	0.1
318	D - 55	< 0.01	0.4
319	D - 56	< 0.01	0.1
320	D - 57	< 0.01	0.1
321	D - 58	< 0.01	0.1
322	D - 59	< 0.01	0.1
323	D - 60	0.01	0.1
324	D - 61	< 0.01	0.1
325	D - 62	< 0.01	0.1
326	D - 63	< 0.01	0.1
327	D - 64	0.01	0.7
328	D - 65	< 0.01	0.1
329	D - 66	< 0.01	0.6
330	D - 67	0.03	0.1
331	D - 68	0.02	0.1
332	D - 69	< 0.01	0.1
333	D - 70	< 0.01	0.1
334	D - 71	< 0.01	0.1
335	D - 72	0.04	0.1
336	D - 73	< 0.01	0.1
337	D - 74	0.03	0.1
338	D - 75	< 0.01	0.1
339	D - 76	< 0.01	0.7
340	D - 77	< 0.01	0.1
341	D - 78	< 0.01	0.1
342	D - 79	< 0.01	0.1
343	D - 80	< 0.01	0.1
344	D - 81	< 0.01	0.1
345	D - 82	< 0.01	0.1
346	D - 83	< 0.01	0.1
347	D - 84	0.10	2.7
348	D - 85	0.13	4.5
349	D - 86	0.05	1.1
350	D - 87	< 0.01	0.5
351	D - 88	< 0.01	0.6
352	D - 89	< 0.01	1.3
353	D - 90	< 0.01	0.1
354	D - 91	< 0.01	0.1
355	D - 92	< 0.01	0.1
356	D - 93	< 0.01	0.1
357	D - 94	< 0.01	0.1
358	D - 95	< 0.01	0.1
359	E - 1	0.08	4.1
360	E - 2	0.01	0.4
361	E - 3	< 0.01	0.1
362	E - 4	0.05	1.8
363	E - 5	0.01	0.1
364	E - 6	< 0.01	0.1
365	E - 7	< 0.01	0.1
366	E - 8	< 0.01	0.5
367	E - 9	< 0.01	0.1
368	E - 10	< 0.01	0.1
369	E - 11	0.01	0.1
370	E - 12	0.02	0.1
371	E - 13	0.01	0.5
372	E - 14	0.01	0.2
373	E - 15	< 0.01	0.4
374	E - 16	0.02	1.3
375	E - 17	0.01	0.3
376	E - 18	0.04	0.3
377	E - 19	0.21	0.2
378	E - 20	0.30	1.3
379	E - 21	0.03	0.1
380	E - 22	0.02	0.1
381	E - 23	0.10	0.1
382	E - 24	0.04	0.2
383	E - 25	0.04	0.1
384	E - 26	0.03	0.1
385	E - 27	0.23	0.1
386	F - 1	< 0.01	0.3
387	F - 2	0.04	2.2
388	F - 3	0.02	2.1
389	F - 4	< 0.01	0.2
390	F - 5	0.01	0.2
391	F - 6	0.02	0.5
392	F - 7	0.02	0.3
393	F - 8	0.01	1.9
394	F - 9	0.02	0.3
395	F - 10	0.07	0.1
396	F - 11	0.01	0.2
397	F - 12	0.01	0.7
398	F - 13	0.02	0.1
399	F - 14	0.02	0.1
400	F - 15	0.04	1.8

(Apx.9 Continued)

Ser.No.	Samp.No.	Au	Ag
401	F - 16	0.08	0.7
402	F - 17	0.16	1.9
403	F - 18	0.11	0.7
404	F - 19	0.02	0.3
405	F - 20	< 0.01	0.1
406	F - 21	0.01	0.4
407	F - 22	0.02	0.1
408	F - 23	0.01	0.1
409	F - 24	0.02	0.1
410	F - 25	0.02	0.3
411	F - 26	0.01	0.1
412	F - 27	0.01	0.1
413	F - 28	0.01	0.1
414	F - 29	0.03	0.1
415	F - 30	< 0.01	0.1
416	F - 31	0.02	0.5
417	F - 32	2.25	0.1
418	F - 33	0.58	0.1
419	F - 34	0.60	0.1
420	F - 35	0.01	0.1
421	F - 36	0.04	0.1
422	F - 37	0.03	0.1
423	F - 38	0.08	0.1
424	F - 39	0.08	0.6
425	F - 40	0.10	0.1
426	F - 41	0.07	0.1
427	F - 42	0.02	0.1
428	F - 43	0.02	0.6
429	F - 44	1.13	0.2
430	F - 45	0.04	0.1
431	F - 46	6.60	0.1
432	F - 47	0.01	0.1
433	F - 48	0.01	0.1
434	F - 49	< 0.01	0.1
435	G - 1	0.02	0.1
436	G - 2	0.09	0.7
437	G - 3	0.10	0.1
438	G - 4	0.02	0.1
439	G - 5	0.01	0.1
440	G - 6	0.02	0.4
441	G - 7	< 0.01	0.1
442	G - 8	0.04	0.3
443	G - 9	< 0.01	0.1
444	G - 10	0.03	0.1
445	G - 11	0.01	0.2
446	G - 12	< 0.01	0.1
447	G - 13	0.04	0.3
448	G - 14	0.04	0.8
449	G - 15	0.01	0.1
450	G - 16	< 0.01	0.1

Ser.No.	Samp.No.	Au	Ag
451	G - 17	0.01	0.1
452	G - 18	0.01	0.3
453	G - 19	< 0.01	0.1
454	G - 20	< 0.01	0.1
455	G - 21	< 0.01	0.1
456	G - 22	0.02	0.1
457	G - 23	0.01	0.1
458	G - 24	0.40	1.8
459	G - 25	0.65	0.4
460	G - 26	0.02	0.1
461	G - 27	0.04	0.4
462	G - 28	0.01	0.1
463	G - 29	0.03	0.1
464	G - 30	0.04	0.1
465	G - 31	0.05	0.2
466	G - 32	0.01	0.5
467	G - 33	0.03	0.2
468	G - 34	0.34	0.1
469	G - 35	0.03	0.1
470	G - 36	0.02	0.1
471	G - 37	0.01	0.3
472	G - 38	0.01	0.1
473	G - 39	0.02	0.1
474	G - 40	0.03	0.1
475	G - 41	0.05	0.1
476	G - 42	0.02	1.2
477	G - 43	< 0.01	0.1
478	G - 44	0.03	0.1
479	G - 45	< 0.01	0.2
480	G - 46	0.05	0.3
481	G - 47	0.03	0.1
482	G - 48	< 0.01	0.3
483	G - 49	0.05	2.1
484	G - 50	0.04	0.2
485	G - 51	0.02	0.1
486	G - 52	0.04	0.1
487	H - 1	0.05	3.5
488	H - 2	0.07	2.2
489	H - 3	0.01	0.1
490	H - 4	< 0.01	0.1
491	H - 5	0.01	0.1
492	H - 6	0.01	0.1
493	H - 7	< 0.01	0.1
494	H - 8	< 0.01	0.1
495	H - 9	< 0.01	0.1
496	H - 10	0.02	0.2
497	H - 11	0.03	0.1
498	H - 12	0.01	0.6
499	H - 13	1.00	0.7
500	H - 14	0.05	0.1

Ser.No.	Samp.No.	Au	Ag
501	H - 15	0.01	0.5
502	H - 16	< 0.01	0.3
503	H - 17	0.05	0.1
504	H - 18	0.03	0.1
505	H - 19	0.01	0.1
506	H - 20	0.01	0.3
507	H - 21	0.02	1.0
508	H - 22	< 0.01	0.4
509	H - 23	0.01	0.6
510	H - 24	< 0.01	0.6
511	H - 25	< 0.01	1.2
512	H - 26	0.01	0.2
513	H - 27	0.01	0.1
514	H - 28	0.18	0.3
515	H - 29	0.03	0.6
516	H - 30	0.75	0.8
517	H - 31	0.09	0.3
518	H - 32	0.06	1.0
519	H - 33	0.09	0.4
520	H - 34	0.29	0.1
521	H - 35	4.35	1.9
522	H - 36	0.80	0.8
523	H - 37	0.01	0.3
524	H - 38	0.07	0.1
525	H - 39	0.02	0.1
526	H - 40	0.02	0.5
527	H - 41	0.04	0.1
528	H - 42	0.14	0.1
529	H - 43	0.06	0.2
530	H - 44	0.03	0.6
531	H - 45	< 0.01	0.6
532	H - 46	0.02	0.2
533	H - 47	0.04	0.2
534	H - 48	0.02	0.2
535	H - 49	0.03	0.1
536	H - 50	0.01	0.1
537	H - 51	0.04	0.1
538	H - 52	0.04	0.1
539	H - 53	0.02	0.1
540	H - 54	0.02	0.1
541	I - 1	< 0.01	0.1
542	I - 2	< 0.01	0.1
543	I - 3	< 0.01	0.1
544	I - 4	0.01	0.3
545	I - 5	< 0.01	0.1
546	I - 6	< 0.01	0.1
547	I - 7	< 0.01	0.1
548	I - 8	< 0.01	0.1
549	I - 9	0.01	0.3
550	I - 10	< 0.01	0.1

Ser.No.	Samp.No.	Au	Ag
551	I - 11	0.01	0.7
552	I - 12	< 0.01	0.3
553	I - 13	< 0.01	0.1
554	I - 14	< 0.01	0.1
555	I - 15	< 0.01	0.1
556	I - 16	0.02	0.3
557	I - 17	< 0.01	0.1
558	I - 18	< 0.01	0.1
559	I - 19	0.02	0.1
560	I - 20	0.04	0.7
561	I - 21	0.06	0.1
562	I - 22	0.03	0.1
563	I - 23	< 0.01	0.1
564	I - 24	0.03	0.1
565	I - 25	0.06	1.0
566	I - 26	0.02	0.1
567	I - 27	0.02	0.1
568	I - 28	0.02	0.1
569	I - 29	0.03	0.2
570	I - 30	0.07	0.1
571	I - 31	0.38	0.2
572	I - 32	0.16	0.1
573	I - 33	0.06	0.1
574	I - 34	0.07	0.1
575	I - 35	0.06	0.6
576	I - 36	1.15	0.2
577	I - 37	0.06	0.2
578	I - 38	0.45	0.1
579	I - 39	0.14	0.2
580	I - 40	0.50	0.3
581	I - 41	0.60	0.1
582	J - 1	< 0.01	0.2
583	J - 2	< 0.01	0.2
584	J - 3	0.02	0.6
585	J - 4	0.02	0.1
586	J - 5	< 0.01	0.1
587	J - 6	< 0.01	0.3
588	J - 7	0.02	0.5
589	J - 8	0.04	0.2
590	J - 9	< 0.01	0.1
591	J - 10	< 0.01	0.2
592	J - 11	< 0.01	0.1
593	J - 12	< 0.01	0.2
594	J - 13	< 0.01	0.1
595	J - 14	< 0.01	0.1
596	J - 15	< 0.01	0.1
597	J - 16	0.04	0.1
598	J - 17	0.02	0.5
599	J - 18	0.02	0.1
600	J - 19	0.03	0.1

(Apx.9 Continued)

Ser.No.	Samp.No.	Au	Ag
601	J - 20	0.06	0.1
602	J - 21	0.02	0.1
603	J - 22	0.02	0.3
604	J - 23	0.02	0.2
605	J - 24	0.01	0.5
606	J - 25	0.23	0.5
607	J - 26	0.07	0.4
608	J - 27	0.03	0.3
609	J - 28	0.02	0.1
610	J - 29	0.01	0.1
611	J - 30	0.02	0.2
612	J - 31	0.03	0.3
613	J - 32	0.07	1.5
614	J - 33	0.04	1.4
615	J - 34	0.33	0.1
616	J - 35	0.38	0.1
617	J - 36	0.03	0.1
618	J - 37	0.02	0.1
619	J - 38	< 0.01	0.1
620	J - 39	< 0.01	0.1
621	J - 40	0.01	0.3
622	K - 1	< 0.01	0.1
623	K - 2	< 0.01	0.1
624	K - 3	< 0.01	0.1
625	K - 4	< 0.01	0.3
626	K - 5	< 0.01	0.1
627	K - 6	< 0.01	0.1
628	K - 7	< 0.01	0.1
629	K - 8	0.03	1.5
630	K - 9	0.10	3.0
631	K - 10	0.02	0.8
632	K - 11	< 0.01	0.1
633	K - 12	< 0.01	0.1
634	K - 13	< 0.01	0.1
635	K - 14	< 0.01	0.1
636	K - 15	< 0.01	0.1
637	K - 16	< 0.01	0.1
638	K - 17	0.01	0.1
639	K - 18	< 0.01	0.1
640	K - 19	< 0.01	0.1
641	K - 20	< 0.01	0.1
642	K - 21	0.03	0.7
643	K - 22	< 0.01	0.1
644	K - 23	< 0.01	0.1
645	K - 24	< 0.01	0.2
646	K - 25	< 0.01	0.1
647	K - 26	< 0.01	0.1
648	K - 27	0.02	0.1
649	K - 28	< 0.01	0.2
650	K - 29	< 0.01	0.1

Ser.No.	Samp.No.	Au	Ag
651	K - 30	< 0.01	0.2
652	K - 31	< 0.01	0.2
653	K - 32	< 0.01	0.1
654	L - 1	< 0.01	0.1
655	L - 2	0.02	0.1
656	L - 3	0.02	0.3
657	L - 4	0.01	0.1
658	L - 5	< 0.01	0.1
659	L - 6	0.02	0.1
660	L - 7	0.01	0.1
661	L - 8	< 0.01	0.1
662	L - 9	0.01	0.1
663	L - 10	0.01	0.1
664	L - 11	0.01	0.1
665	L - 12	0.05	0.2
666	L - 13	0.02	0.1
667	L - 14	0.01	1.3
668	L - 15	0.03	0.1
669	L - 16	0.04	0.1
670	L - 17	0.04	0.3
671	L - 18	0.11	17.7
672	L - 19	0.01	0.5
673	L - 20	0.01	0.3
674	L - 21	< 0.01	0.2
675	L - 22	< 0.01	0.1
676	L - 23	< 0.01	0.1
677	L - 24	< 0.01	0.1
678	L - 25	0.02	0.1
679	L - 26	< 0.01	0.2
680	L - 27	< 0.01	0.1
681	L - 28	< 0.01	0.1
682	L - 29	0.02	0.9
683	L - 30	0.01	0.2
684	L - 31	0.02	0.1
685	L - 32	< 0.01	0.2
686	M - 1	< 0.01	0.4
687	M - 2	0.01	1.0
688	M - 3	0.01	0.2
689	M - 4	0.01	0.3
690	M - 5	< 0.01	0.1
691	M - 6	< 0.01	0.4
692	M - 7	< 0.01	0.5
693	M - 8	< 0.01	0.4
694	M - 9	< 0.01	0.1
695	M - 10	< 0.01	0.1
696	M - 11	0.01	0.4
697	M - 12	0.02	0.4
698	M - 13	< 0.01	0.1
699	M - 14	< 0.01	0.1
700	M - 15	0.01	0.3

Ser.No.	Samp.No.	Au	Ag
701	M - 16	< 0.01	0.3
702	M - 17	< 0.01	0.1
703	M - 18	< 0.01	0.2
704	M - 19	0.01	0.9
705	M - 20	< 0.01	1.0
706	M - 21	< 0.01	0.1
707	M - 22	0.01	0.2
708	M - 23	< 0.01	0.1
709	M - 24	0.21	4.6
710	M - 25	0.11	2.3
711	M - 26	< 0.01	0.3
712	M - 27	0.01	0.5
713	M - 28	0.03	0.3
714	M - 29	0.05	0.8
715	M - 30	0.05	1.4
716	M - 31	0.03	0.3
717	M - 32	< 0.01	0.3
718	M - 33	0.03	2.2
719	M - 34	0.06	1.5
720	M - 35	0.01	1.1
721	M - 36	< 0.01	0.4
722	M - 37	< 0.01	0.7
723	M - 38	0.01	0.4
724	M - 39	0.03	1.4
725	M - 40	< 0.01	0.2
726	SQ- 1	0.74	23.5
727	SQ- 2	0.22	10.0
728	SQ- 3	0.21	9.2
729	SQ- 4	0.11	4.5
730	SQ- 5	0.15	5.7
731	SQ- 6	0.48	11.8
732	SQ- 7	0.18	6.5
733	SQ- 8	0.43	8.2

Apx.10 Analytical Value of Core Samples for Geochemical Exploration by Drilling Holes in the SAN CLEMENTE Area, (ppm)

Ser.No.	Samp.No.	Au	Ag
1	MJM-1- 1	0.39	14.8
2	MJM-1- 4	0.14	4.0
3	MJM-1- 7	0.10	5.0
4	MJM-1- 10	0.06	2.6
5	MJM-1- 13	0.08	2.5
6	MJM-1- 16	0.05	2.1
7	MJM-1- 19	0.05	1.9
8	MJM-1- 22	0.05	2.0
9	MJM-1- 25	0.05	1.5
10	MJM-1- 28	0.02	1.4
11	MJM-1- 31	0.02	1.9
12	MJM-1- 34	0.02	1.7
13	MJM-1- 37	0.05	1.5
14	MJM-1- 40	0.04	1.9
15	MJM-1- 43	0.05	1.4
16	MJM-1- 46	0.04	1.5
17	MJM-1- 49	0.04	1.1
18	MJM-1- 52	0.04	1.7
19	MJM-1- 55	0.04	1.2
20	MJM-1- 58	0.07	1.5
21	MJM-1- 61	0.08	1.5
22	MJM-1- 64	0.07	1.3
23	MJM-1- 67	0.03	1.9
24	MJM-1- 70	0.03	0.5
25	MJM-1- 73	0.03	0.8
26	MJM-1- 76	0.03	0.6
27	MJM-1- 79	0.01	0.7
28	MJM-1- 82	0.01	0.8
29	MJM-1- 85	0.01	0.7
30	MJM-1- 88	0.02	0.5
31	MJM-1- 91	0.01	0.7
32	MJM-1- 94	0.06	2.4
33	MJM-1- 97	0.02	0.8
34	MJM-1-100	0.06	0.9
35	MJM-1-103	0.02	1.0
36	MJM-1-106	0.02	0.7
37	MJM-1-109	0.02	0.7
38	MJM-1-112	0.02	0.8
39	MJM-1-115	0.03	0.6
40	MJM-1-118	0.02	0.8
41	MJM-1-121	0.02	0.9
42	MJM-1-124	0.04	1.0
43	MJM-1-127	0.07	1.4
44	MJM-1-130	0.03	0.8
45	MJM-1-133	0.03	0.6
46	MJM-1-136	0.03	0.5
47	MJM-1-139	0.02	0.6
48	MJM-1-142	0.02	0.5
49	MJM-1-145	0.01	0.4
50	MJM-1-148	0.03	0.8

Ser.No.	Samp.No.	Au	Ag
51	MJM-1-151	0.03	0.4
52	MJM-1-154	0.01	0.4
53	MJM-1-157	0.02	0.6
54	MJM-1-160	0.01	0.5
55	MJM-1-163	0.02	1.0
56	MJM-1-166	0.02	0.5
57	MJM-1-169	0.14	0.7
58	MJM-1-172	0.02	0.4
59	MJM-1-175	0.04	0.9
60	MJM-1-178	0.08	1.4
61	MJM-1-181	0.04	0.8
62	MJM-1-184	0.02	0.7
63	MJM-1-187	0.10	1.1
64	MJM-1-190	0.02	0.6
65	MJM-1-193	0.05	0.9
66	MJM-1-196	0.06	3.0
67	MJM-1-199	0.09	2.5
68	MJM-1-202	0.22	2.7
69	MJM-1-205	0.23	3.5
70	MJM-1-208	0.02	0.6
71	MJM-1-211	0.01	0.4
72	MJM-1-214	0.01	0.5
73	MJM-1-217	0.02	0.4
74	MJM-1-220	0.02	0.4
75	MJM-1-223	0.02	0.5
76	MJM-1-226	0.05	0.5
77	MJM-1-229	0.01	0.6
78	MJM-1-232	<0.01	0.5
79	MJM-1-235	0.01	0.6
80	MJM-1-238	0.01	0.7
81	MJM-1-241	0.01	0.4
82	MJM-1-244	0.03	1.7
83	MJM-1-247	0.02	1.9
84	MJM-1-250	0.01	2.5
85	MJM-1-253	0.01	1.2
86	MJM-1-256	0.01	1.6
87	MJM-1-259	0.02	0.5
88	MJM-1-262	0.04	0.4
89	MJM-1-265	0.04	1.1
90	MJM-1-268	0.02	0.4
91	MJM-1-271	<0.01	0.6
92	MJM-1-274	0.01	0.5
93	MJM-1-277	0.01	0.5
94	MJM-1-280	0.01	0.5
95	MJM-1-283	0.01	0.5
96	MJM-1-286	<0.01	0.3
97	MJM-1-289	<0.01	0.4
98	MJM-1-292	0.01	0.9
99	MJM-1-295	0.01	0.6
100	MJM-1-298	0.01	0.7

(Apx.10 Continued) (ppm)

Ser.No.	Samp.No.	Au	Ag
101	MJM-2- 1	0.01	0.6
102	MJM-2- 4	0.01	1.0
103	MJM-2- 7	0.05	3.0
104	MJM-2- 10	0.02	1.9
105	MJM-2- 13	0.02	0.4
106	MJM-2- 16	0.01	0.3
107	MJM-2- 19	0.02	0.4
108	MJM-2- 22	<0.01	0.2
109	MJM-2- 25	0.01	0.3
110	MJM-2- 28	<0.01	0.2
111	MJM-2- 31	0.01	0.4
112	MJM-2- 34	<0.01	0.1
113	MJM-2- 37	<0.01	0.1
114	MJM-2- 40	<0.01	0.2
115	MJM-2- 43	<0.01	0.1
116	MJM-2- 46	<0.01	0.2
117	MJM-2- 49	<0.01	0.2
118	MJM-2- 52	0.01	0.1
119	MJM-2- 55	0.03	0.3
120	MJM-2- 58	<0.01	0.3
121	MJM-2- 61	<0.01	0.3
122	MJM-2- 64	<0.01	0.2
123	MJM-2- 67	0.01	0.5
124	MJM-2- 70	0.01	0.8
125	MJM-2- 73	0.01	1.0
126	MJM-2- 76	0.02	< 0.1
127	MJM-2- 79	0.02	0.2
128	MJM-2- 82	<0.01	0.2
129	MJM-2- 85	<0.01	2.0
130	MJM-2- 88	0.10	4.3
131	MJM-2- 91	0.02	0.8
132	MJM-2- 94	<0.01	< 0.1
133	MJM-2- 97	<0.01	< 0.1
134	MJM-2-100	<0.01	< 0.1
135	MJM-2-103	<0.01	< 0.1
136	MJM-2-106	0.01	0.4
137	MJM-2-109	0.01	0.1
138	MJM-2-112	0.03	0.3
139	MJM-2-115	0.04	0.3
140	MJM-2-118	0.02	1.9
141	MJM-2-121	<0.01	1.1
142	MJM-2-124	0.03	0.4
143	MJM-2-127	0.01	0.4
144	MJM-2-130	0.01	0.1
145	MJM-2-133	0.02	0.2
146	MJM-2-136	0.02	0.2
147	MJM-2-139	0.01	0.2
148	MJM-2-142	<0.01	0.4
149	MJM-2-145	0.02	0.5
150	MJM-2-148	0.02	0.5

Ser.No.	Samp.No.	Au	Ag
151	MJM-2-151	0.03	0.2
152	MJM-2-154	0.02	0.2
153	MJM-2-157	0.01	0.1
154	MJM-2-160	0.03	0.3
155	MJM-2-163	0.03	0.8
156	MJM-2-166	0.03	0.3
157	MJM-2-169	0.02	0.4
158	MJM-2-172	0.03	0.5
159	MJM-2-175	0.03	2.3
160	MJM-2-178	0.02	3.1
161	MJM-2-181	0.03	2.0
162	MJM-2-184	0.01	0.7
163	MJM-2-187	0.01	0.5
164	MJM-2-190	0.03	0.5
165	MJM-2-193	0.02	0.6
166	MJM-2-196	<0.01	0.7
167	MJM-2-199	<0.01	0.4
168	MJM-2-202	0.01	0.3
169	MJM-2-205	<0.01	0.5
170	MJM-2-208	0.01	0.3
171	MJM-2-211	0.01	0.1
172	MJM-2-214	0.01	0.7
173	MJM-2-217	<0.01	0.3
174	MJM-2-220	0.01	0.3
175	MJM-2-223	<0.01	0.7
176	MJM-2-226	<0.01	2.0
177	MJM-2-229	0.01	0.9
178	MJM-2-232	<0.01	0.6
179	MJM-2-235	0.01	0.1
180	MJM-2-238	0.02	0.1
181	MJM-2-241	0.01	0.2
182	MJM-2-244	0.04	0.2
183	MJM-2-247	0.04	0.3
184	MJM-2-250	0.04	0.6
185	MJM-2-253	0.02	0.2
186	MJM-2-256	<0.01	0.3
187	MJM-2-259	0.02	0.2
188	MJM-2-262	0.01	0.3
189	MJM-2-265	0.02	0.2
190	MJM-2-268	0.01	0.3
191	MJM-2-271	<0.01	0.1
192	MJM-2-274	0.01	0.2
193	MJM-2-277	0.01	0.4
194	MJM-2-280	<0.01	0.1
195	MJM-2-283	<0.01	0.2
196	MJM-2-286	<0.01	0.2
197	MJM-2-289	0.01	0.1
198	MJM-2-292	<0.01	0.2
199	MJM-2-295	<0.01	0.1
200	MJM-2-298	<0.01	0.2

(Apx.10 Continued) (ppm)

Ser.No.	Samp.No.	Au	Ag
201	MJM-3- 1	0.02	0.1
202	MJM-3- 4	0.02	0.1
203	MJM-3- 7	<0.01	0.1
204	MJM-3- 10	0.04	0.1
205	MJM-3- 13	0.06	0.1
206	MJM-3- 16	0.01	0.7
207	MJM-3- 19	<0.01	0.1
208	MJM-3- 22	0.03	0.1
209	MJM-3- 25	0.03	0.1
210	MJM-3- 28	0.03	0.1
211	MJM-3- 31	0.08	0.1
212	MJM-3- 34	0.05	0.1
213	MJM-3- 37	<0.01	0.1
214	MJM-3- 40	<0.01	0.1
215	MJM-3- 43	<0.01	0.1
216	MJM-3- 46	<0.01	0.1
217	MJM-3- 49	<0.01	0.1
218	MJM-3- 52	<0.01	0.1
219	MJM-3- 55	<0.01	0.1
220	MJM-3- 58	<0.01	0.1
221	MJM-3- 61	<0.01	0.1
222	MJM-3- 64	<0.01	0.1
223	MJM-3- 67	0.02	0.1
224	MJM-3- 70	<0.01	0.1
225	MJM-3- 73	<0.01	0.1
226	MJM-3- 76	<0.01	0.1
227	MJM-3- 79	<0.01	0.1
228	MJM-3- 82	<0.01	0.1
229	MJM-3- 85	0.02	0.1
230	MJM-3- 88	<0.01	0.1
231	MJM-3- 91	<0.01	0.1
232	MJM-3- 94	<0.01	0.1
233	MJM-3- 97	<0.01	0.1
234	MJM-3-100	<0.01	0.1
235	MJM-3-103	<0.01	0.1
236	MJM-3-106	<0.01	0.1
237	MJM-3-109	<0.01	0.1
238	MJM-3-112	<0.01	0.1
239	MJM-3-115	<0.01	0.1
240	MJM-3-118	<0.01	0.1
241	MJM-3-121	<0.01	0.1
242	MJM-3-124	<0.01	0.1
243	MJM-3-127	<0.01	0.1
244	MJM-3-130	<0.01	4.0
245	MJM-3-133	<0.01	0.1
246	MJM-3-136	<0.01	0.1
247	MJM-3-139	<0.01	0.1
248	MJM-3-142	<0.01	0.1
249	MJM-3-145	<0.01	0.1
250	MJM-3-148	<0.01	0.1

Ser.No.	Samp.No.	Au	Ag
251	MJM-3-151	<0.01	0.1
252	MJM-3-154	<0.01	0.1
253	MJM-3-157	<0.01	0.1
254	MJM-3-160	<0.01	0.1
255	MJM-3-163	<0.01	0.1
256	MJM-3-166	<0.01	0.1
257	MJM-3-169	<0.01	0.1
258	MJM-3-172	<0.01	0.1
259	MJM-3-175	<0.01	0.1
260	MJM-3-178	<0.01	0.1
261	MJM-3-181	<0.01	0.1
262	MJM-3-184	<0.01	0.1
263	MJM-3-187	<0.01	0.1
264	MJM-3-190	<0.01	0.3
265	MJM-3-193	0.05	0.3
266	MJM-3-196	<0.01	0.1
267	MJM-3-199	<0.01	0.1
268	MJM-3-202	0.50	0.1
269	MJM-3-205	0.47	0.1
270	MJM-3-208	<0.01	0.1
271	MJM-3-211	<0.01	0.1
272	MJM-3-214	<0.01	0.1
273	MJM-3-217	<0.01	0.1
274	MJM-3-220	0.01	0.1
275	MJM-3-223	0.01	0.1
276	MJM-3-226	0.03	0.1
277	MJM-3-229	0.02	0.3
278	MJM-3-232	0.01	0.2
279	MJM-3-235	0.02	0.2
280	MJM-3-238	<0.01	0.1
281	MJM-3-241	0.11	0.1
282	MJM-3-244	0.06	0.1
283	MJM-3-247	0.12	0.2
284	MJM-3-250	0.33	0.4
285	MJM-3-253	0.11	0.1
286	MJM-3-256	0.22	0.1
287	MJM-3-259	0.14	0.1
288	MJM-3-262	0.28	0.1
289	MJM-3-265	0.09	0.1
290	MJM-3-268	1.65	0.1
291	MJM-3-271	0.16	0.1
292	MJM-3-274	0.25	0.1
293	MJM-3-277	0.06	0.1
294	MJM-3-280	0.04	0.1
295	MJM-3-283	<0.01	0.1
296	MJM-3-286	0.07	0.1
297	MJM-3-289	0.02	0.1
298	MJM-3-292	0.08	0.1
299	MJM-3-295	<0.01	0.1
300	MJM-3-298	0.03	0.1

Apx.11 Analytical Procedure of CHEMEX LABS LTD.

A. Sample Preparation

Materials received from your mineral exploration project in Mexico have been of two types:

1) Prepared geochemical soil samples.
2) Crushed rock materials.

The soil samples have not required further preparation before analyses. Rock chips (crushed to approximately 1/4 inch) are pulverized to -100 mesh in a ring grinder. Samples are homogenized and packaged in kraft envelopes for analyses.

B. Geochemical Analyses Procedures

F.A. - A.A. Gold Combo Method

For low grade samples and geochemical materials 10 gram samples are fused in litharge, carbonate and siliceous flux with the addition of 10 mg Au-free Ag metal and cupelled. The silver bead is parted with dilute HNO_3 and then treated with aqua regia. The salts are dissolved in dilute HCl and analyzed for Au on an atomic absorption spectrophotometer to a detection of 5 ppb.

PPM Silver

A 1.0 gram portion of sample is digested in conc. perchloric-nitric acid ($HClO_4$-HNO_3) for approximately 2 hours. The digested sample is cooled and made up to 25 mls with distilled water. The solution is mixed and solids are allowed to settle. Silver is determined by atomic absorption technique using background correction on analysis to a detection limit of 0.1 PPM.