# APPENDICES

Apx. 1  Microscopic Observations of Rock Thin Section

| | | | Ser. No. | Sample No. | Location Coordinates E | Location Coordinates N | Stratigraphic unit | Rock name | Texture or structure | Primary qz | Primary af | Primary pl | Primary bi | Primary ho | Primary au | Primary ru | Primary ap | Primary ca | Primary mt | Primary ti | Primary gl | Primary op | Primary | Secondary chl | Secondary ep | Secondary ca | Secondary se | Secondary si | Secondary k | Secondary al | Secondary py | Secondary op | Secondary | 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 silicified |
| 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, Iamina 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

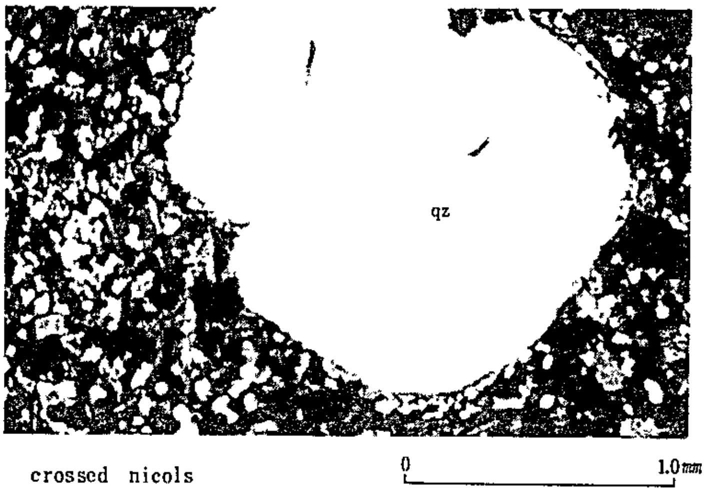
ho : hornblende

au : augite

ca : calcite

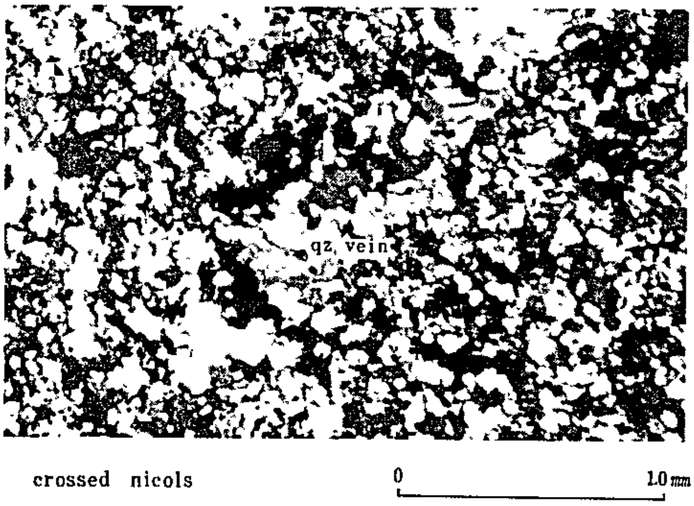
kao : kaolin

## SAN CLEMENTE Area



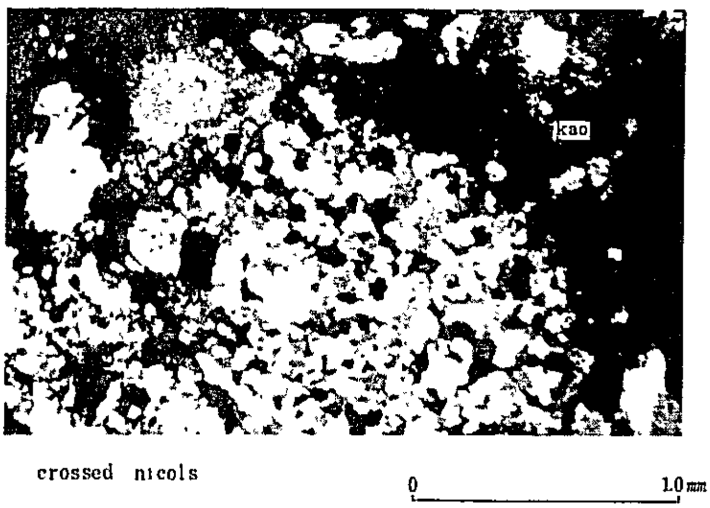

crossed nicols

(1) SB−2 ( Trhy 2−C )
Rhyolite



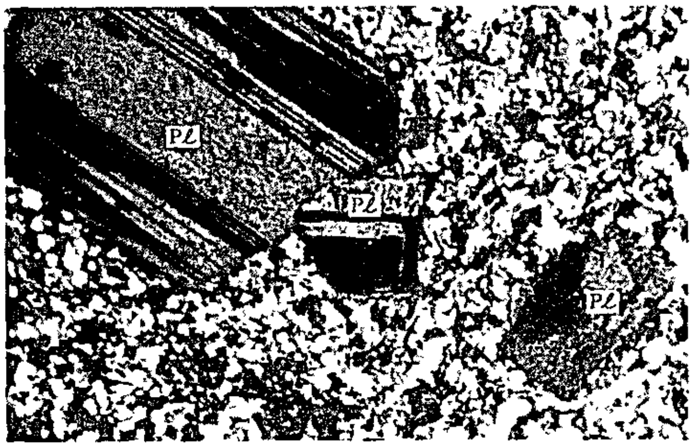

crossed nicols

(2) SB−8 ( Trhy 2−C )
Rhyolite




crossed nicols

(3) SM−5 ( Tirh )
Brecciated rhyolite

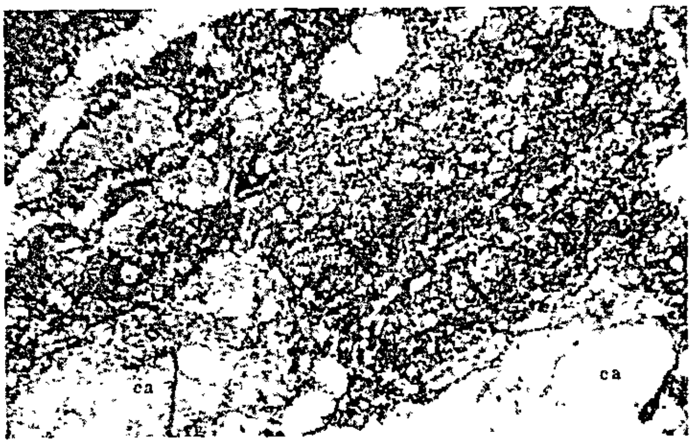



crossed nicols

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) K P − 11 (Tiba)
Altered augite basalt

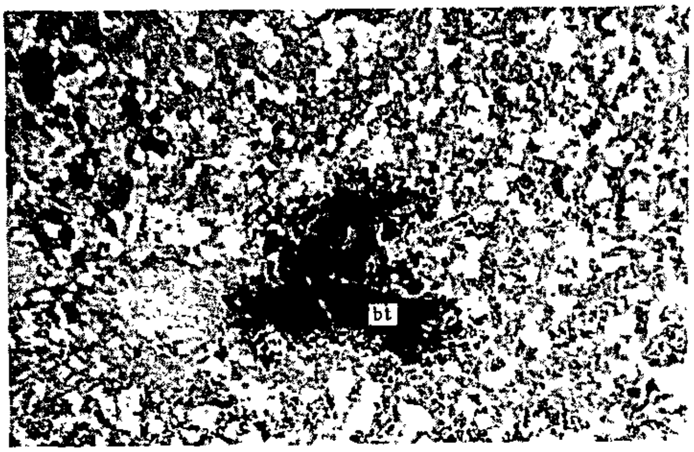
SAN CLEMENTE Area(Drilling core)


open nicol 0 1.0 mm

(8) D S I − 2 T (Tidi)
Altered diorite


crossed nicols 0 1.0 mm

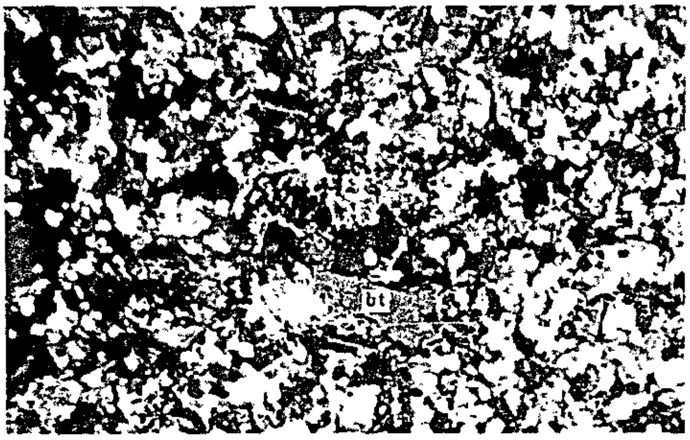
(9) D S I − 2 T (Tidi)




open nicol 0 1.0 mm

(10) DS 2－1 T ( Trhy 2－C )

Rhyolite




crossed nicols 0 1.0 mm

(11) DS 2－1 T ( Trhy 2－C )

PROVIDENCIA Area (Drilling core)

open nicol 0 1.0 mm

(12) DS 4－1 T ( Kdf )

Calcarenite

## Apx. 3 Microscopic Observations of Ore Polished Section

| Area | Ser No. | Sample No. | Coordinates E | Coordinates N | ✡ Location | Occurrence | Primary mineral el | cp | sp | py | he | ru | zr | | Secondary minearal hm | goe | ce | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 |
| | | 2 | DS1-2P | 171.60 | cp veinlets in rhyolite | • | | | ◎ | | | | • | | ○ | | | |
| | | 3 | DS1-3P | 196.85 | tuffaceous conglomerate py,sp disseminate in matrix | ○ | ◎ | ◎ | ◎ | | | | | | • | | | |
| | | 4 | DS1-4P | 238.80 | bleached rhyolite., py disseminate | • | | | ◎ | | • | | ○ | | • | | | |
| | | 5 | DS1-5P | 245.10 | veinlets in altered diorite | • | ◎ | ○ | ○ | • | | | | | • | | | |
| | | 6 | DS1-6P | 247.00 | tuffaceous conglomerate, ga,sp,py disseminate in matrix | • | ◎ | ○ | ○ | | | | | | • | • | | |
| | | 7 | DS1-7P | 271.45 | black minerals in brecciated rhyolite | | | | ○ | •? | | | | | ○* | | | * like ophitic texture |
| | 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 |
| | | 9 | DS2-2P | 70.55 | sp,cp filled with fissure in rhyolite | ○ | ◎ | ○ | ○ | | • | • | | | • | | | |
| | | 10 | DS2-3P | 74.50 | sp.cp.ga filled with fissure in rhyolite | ○ | ◎ | ○ | • | | • | | | | • | | | |
| | | 11 | DS2-4P | 88.00 | strongly silicified rhyolite | ◎ | ◎ | • | ◎ | | •* | • | | | | | | *in cp |
| | | 12 | DS2-5P | 176.80 | strongly silicified tuffaceous conglomerate | • | ◎ | ◎ | ○ | | | | | | | | | |
| | | 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 |
| | | 15 | DS4-2P | 67.50 | lenticular oxides ore in sedimentary rock | | | | | | | | | | ○ | ◎ | | |
| | | 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

ce : cerussite

cp : chalcopyrite

el : electrum

ga : galena

goe : goethite

he : hemimorphite

hm : hematite

mt : magnetite

py : pyrite

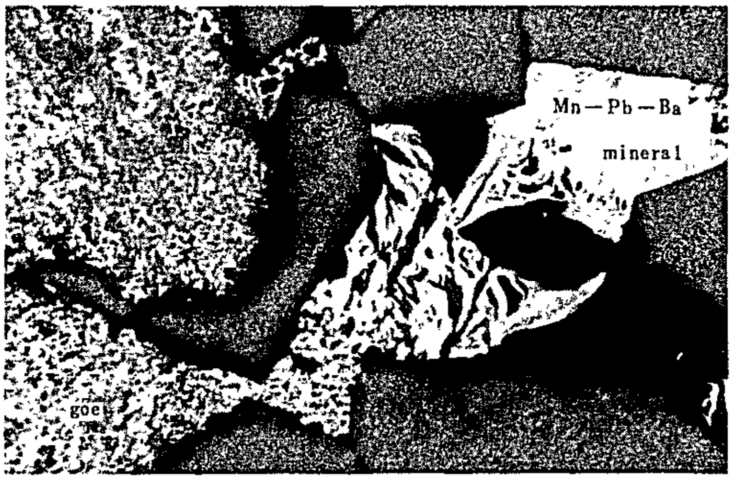
ru : rutile

sp : sphalerite

tr : tetrahedrite

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

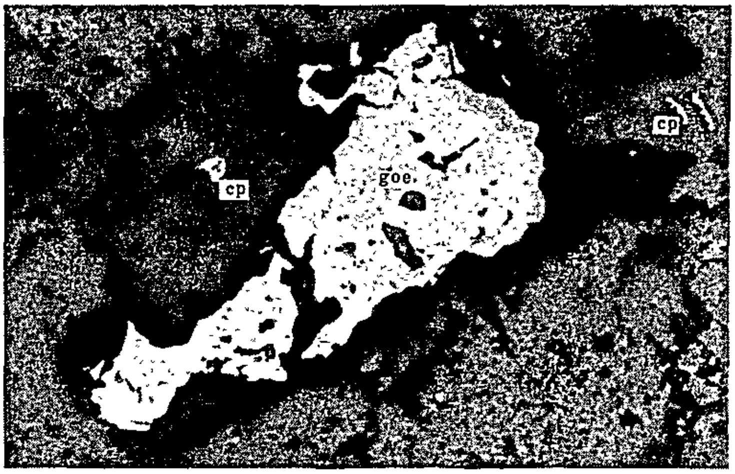
SAN CLENENTE Area




(×220)

(1) SC－3

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

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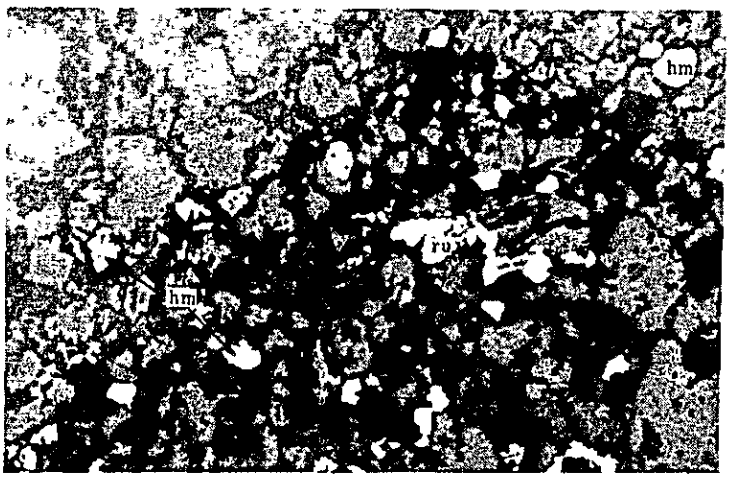
(2) SC－4

Dissemination of hematite and chalcopyrite in rhyolite.

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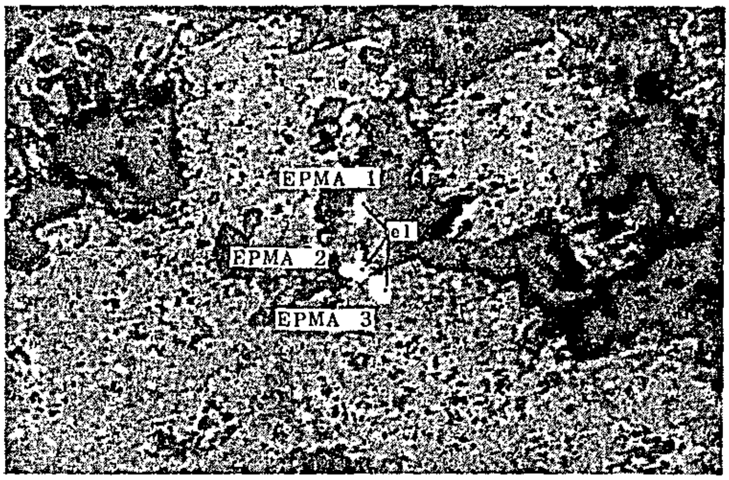
(3) KD－2

Dissemination of hematite and rutile in rhyolite

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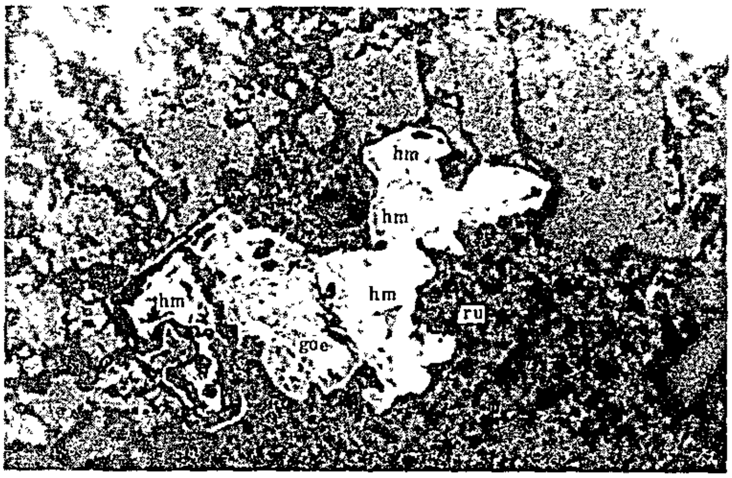
(4) NE－1

Electrum in oxides ore

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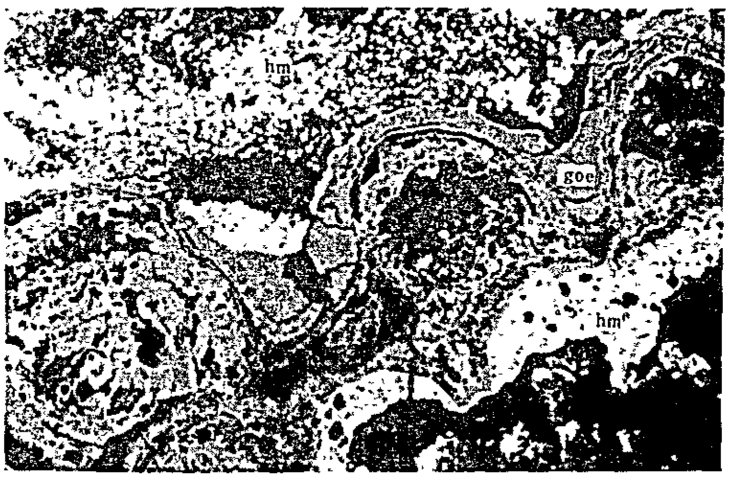
(5) SH－1

Hematite core surrounded by goethite showing rhythmic growth and rutile

PROVIDENCIA Area

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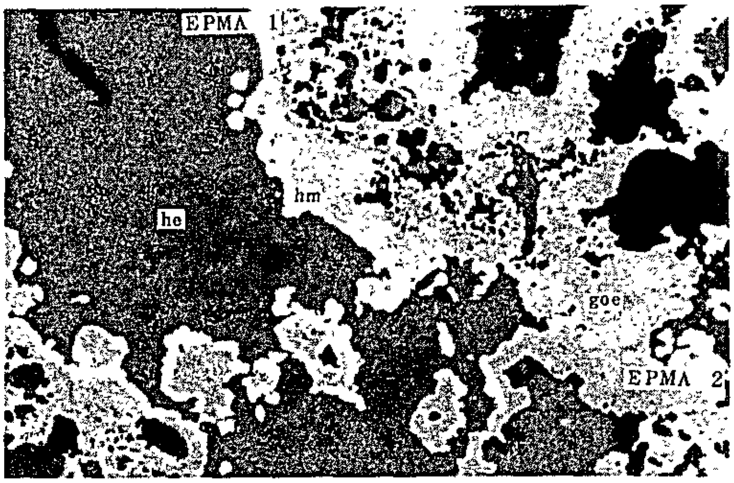
(1) KP－1

Rhythmic growth of goethite and hematite

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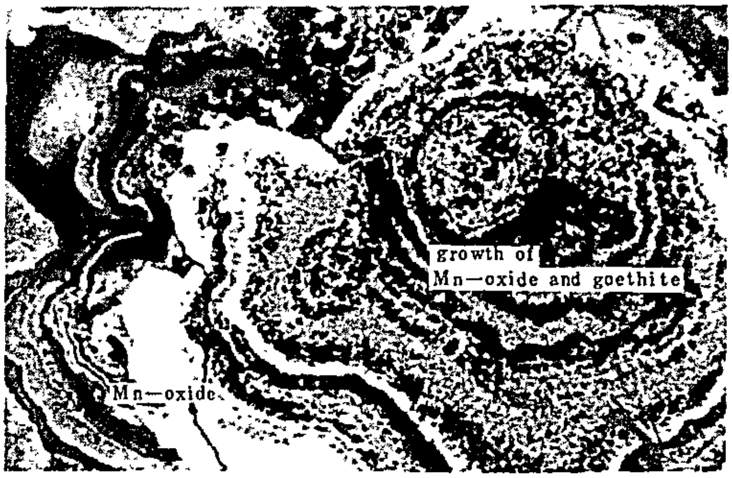
(2) KP－8

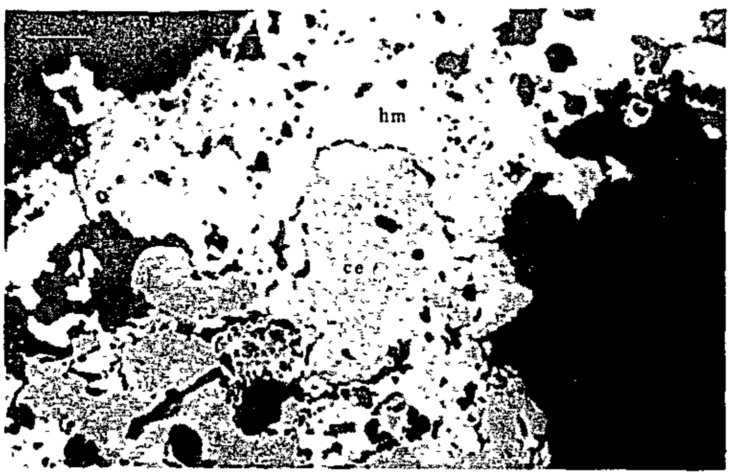
Zonal texture of hemimorphite, hematite and geothite




(×220)

(3) VL－3

Rhythmic growth of Mn－oxide and goethite

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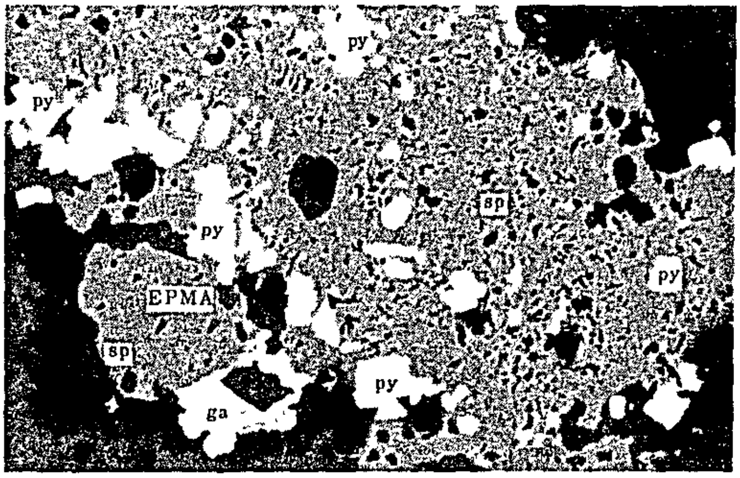
(4) VL－11

Cerussite core surrounded by hematite

Drilling Core

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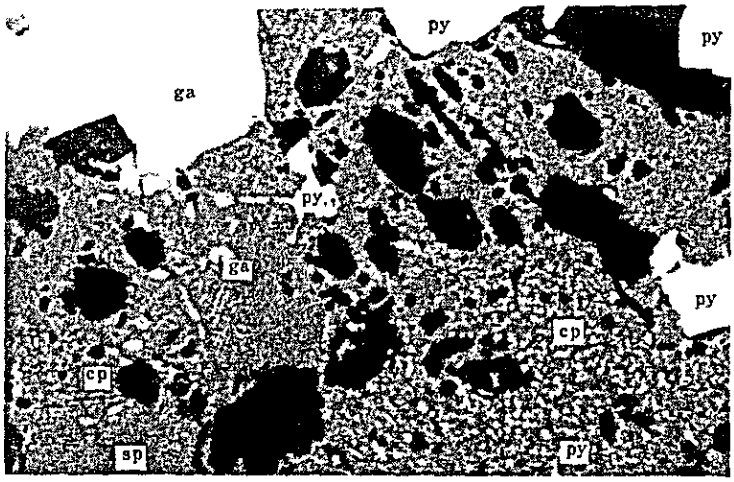
(1) DS1−1P

Sphalerite includes galena and subhedral pyrite grain

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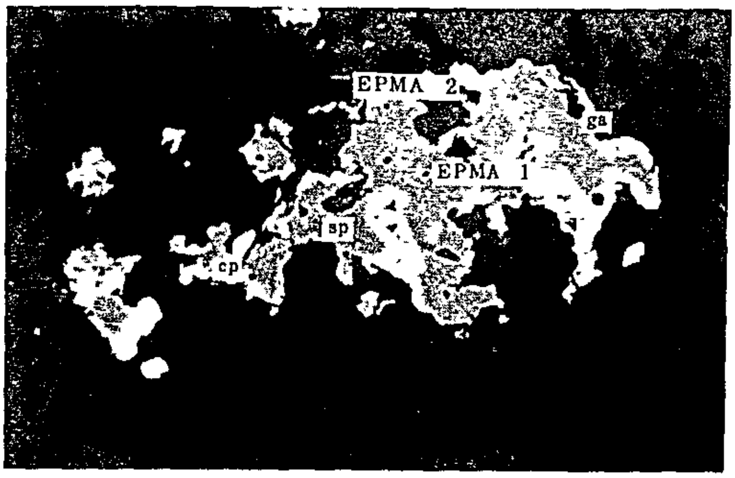
(2) DS1−3P

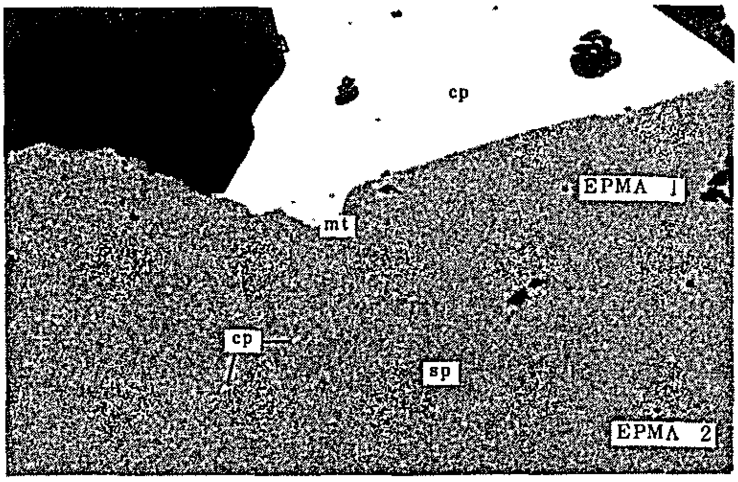
Sphalerite, galena, pyrite, and chalcopyrite in conglomerate




(×220)

(3) DS1−5P

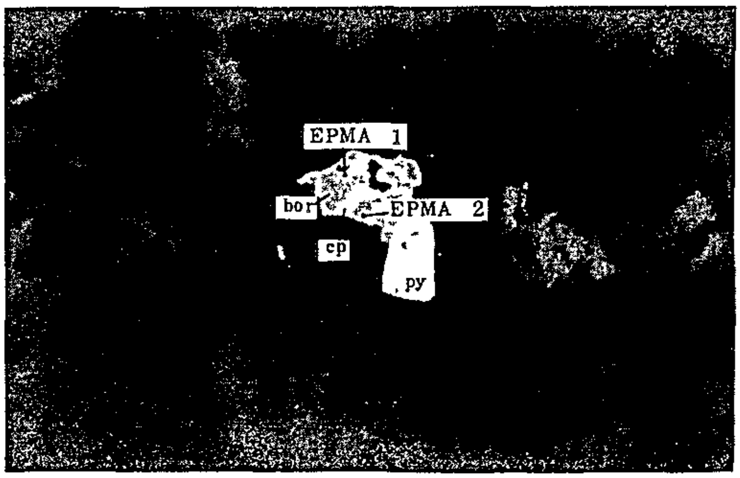
Sphalerite with galena and chalcopyrite marginally




(×220)

(4) DS2－1P

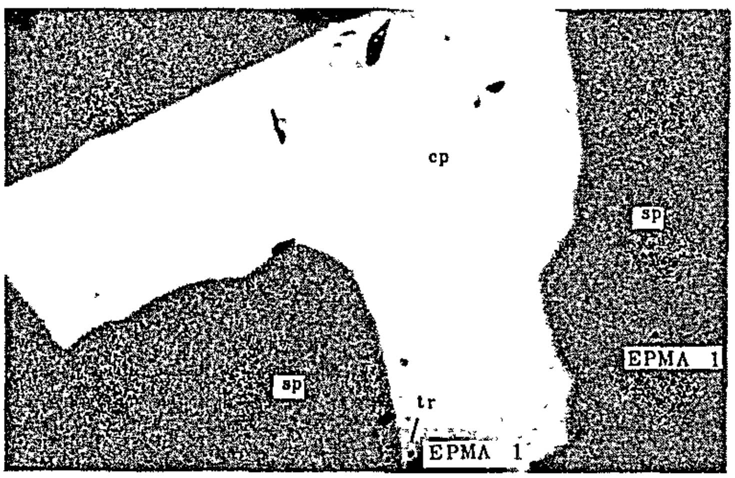
Large sphalerite and chalcopyrite with magnetite




(×220)

(5) DS2－1P

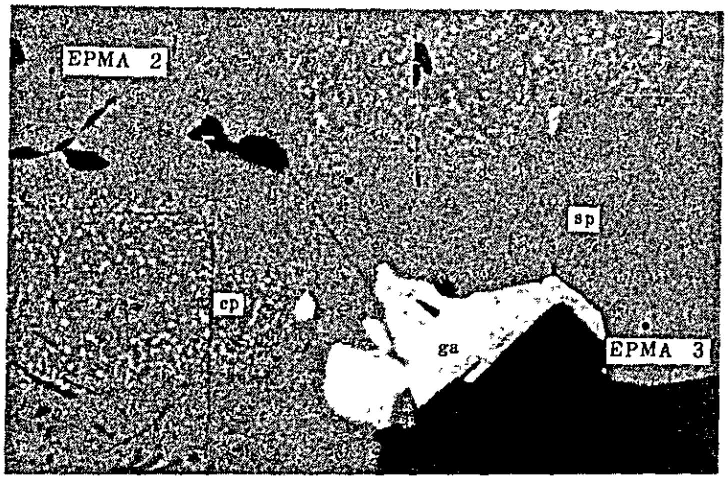
Lattice intergrowth of chalcopyrite and bornite




(×220)

(6) DS2－2P

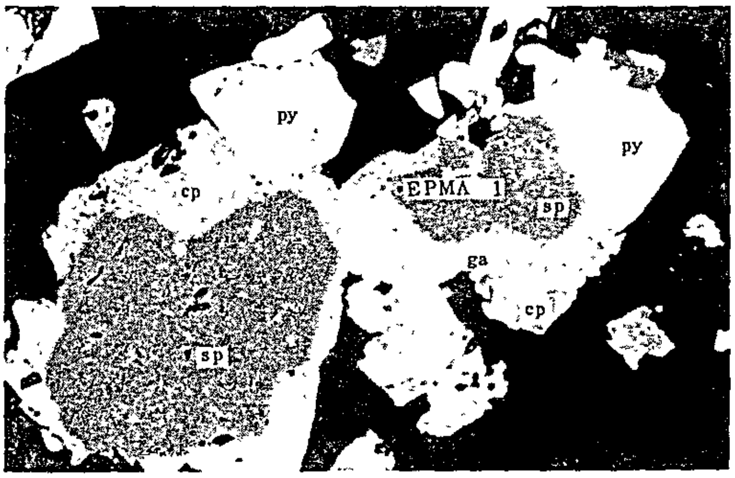
Large sphalerite and chalcopyrite which includes tetrahedrite




(×220)

(7) DS 2−2 P

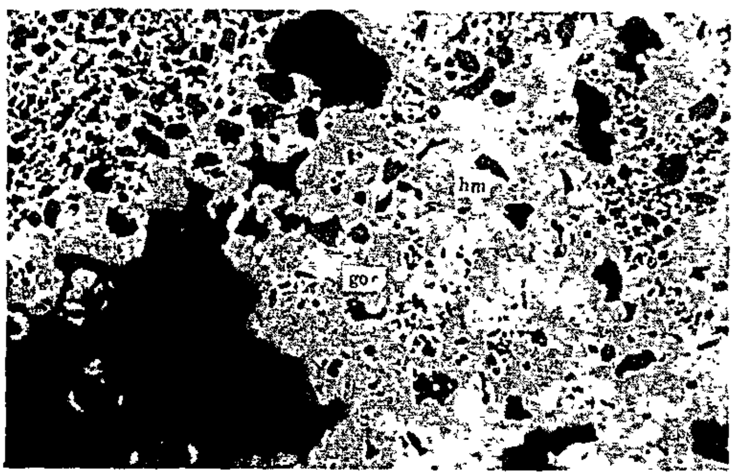
Intergrowth of chalcopyrite and sphalerite




(×220)

(8) DS 2−4 P

Crowded grain of sphalerite, chalcopyrite, galena and pyrite




(×220)

(9) DS 4 − 1 P

Botryoidal texture of goethite and hematite

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

| Ser. No. | Sample No. | Coordinates | | Chemical Composition (%) | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 | Chemical Composition (%) $SiO_2$ | $TiO_2$ | $Al_2O_3$ | $Fe_2O_3$ | MnO | MgO | CaO | $Na_2O$ | $K_2O$ | $P_2O_5$ | BaO | $Cr_2O_3$ | $ZrO_2$ | CuO | LOI | Total | $H_2O(+)$ | $H_2O(-)$ | FeO | $Fe_2O_3$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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) | Chemical Composition (%) $SiO_2$ | $TiO_2$ | $Al_2O_3$ | $Fe_2O_3$ | 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 | 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 | 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 | 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. | — | 3 | 0.01 | 0.48 | 0.81 |
| | 31 | DS2-4M | 175.00 ~ 176.00 | 1.00 | 177.00~179.65; strongly sp., ga. diss. | — | 2 | Tr. | 1.48 | 3.74 |
| | 32 | DS2-5M | 176.00 ~ 177.00 | 1.00 | 178.30~178.70; strongly silicified | — | 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. | — | 1 | Tr. | 0.14 | 0.47 |
| | 36 | DS2-9M | 203.00 ~ 204.00 | 1.00 | weakly sp., ga., diss. | — | 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 |

| Ser.No. | Samp.No. | Au | Ag. |
|---|---|---|---|
| 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 |

| Ser.No. | Samp.No. | Au | Ag |
|---|---|---|---|
| 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 |

| Ser.No. | Samp.No. | Au | Ag |
|---|---|---|---|
| 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 |
| 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 |
| 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 |
| 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 | Ser.No. | Samp.No. | Au | Ag |
|---|---|---|---|---|---|---|---|
| 1 | MJM-1- 1 | 0.39 | 14.8 | 51 | MJM-1-151 | 0.03 | 0.4 |
| 2 | MJM-1- 4 | 0.14 | 4.0 | 52 | MJM-1-154 | 0.01 | 0.4 |
| 3 | MJM-1- 7 | 0.10 | 5.0 | 53 | MJM-1-157 | 0.02 | 0.6 |
| 4 | MJM-1- 10 | 0.06 | 2.6 | 54 | MJM-1-160 | 0.01 | 0.5 |
| 5 | MJM-1- 13 | 0.08 | 2.5 | 55 | MJM-1-163 | 0.02 | 1.0 |
| 6 | MJM-1- 16 | 0.05 | 2.1 | 56 | MJM-1-166 | 0.02 | 0.5 |
| 7 | MJM-1- 19 | 0.05 | 1.9 | 57 | MJM-1-169 | 0.14 | 0.7 |
| 8 | MJM-1- 22 | 0.05 | 2.0 | 58 | MJM-1-172 | 0.02 | 0.4 |
| 9 | MJM-1- 25 | 0.05 | 1.5 | 59 | MJM-1-175 | 0.04 | 0.9 |
| 10 | MJM-1- 28 | 0.02 | 1.4 | 60 | MJM-1-178 | 0.08 | 1.4 |
| 11 | MJM-1- 31 | 0.02 | 1.9 | 61 | MJM-1-181 | 0.04 | 0.8 |
| 12 | MJM-1- 34 | 0.02 | 1.7 | 62 | MJM-1-184 | 0.02 | 0.7 |
| 13 | MJM-1- 37 | 0.05 | 1.5 | 63 | MJM-1-187 | 0.10 | 1.1 |
| 14 | MJM-1- 40 | 0.04 | 1.9 | 64 | MJM-1-190 | 0.02 | 0.6 |
| 15 | MJM-1- 43 | 0.05 | 1.4 | 65 | MJM-1-193 | 0.05 | 0.9 |
| 16 | MJM-1- 46 | 0.04 | 1.5 | 66 | MJM-1-196 | 0.06 | 3.0 |
| 17 | MJM-1- 49 | 0.04 | 1.1 | 67 | MJM-1-199 | 0.09 | 2.5 |
| 18 | MJM-1- 52 | 0.04 | 1.7 | 68 | MJM-1-202 | 0.22 | 2.7 |
| 19 | MJM-1- 55 | 0.04 | 1.2 | 69 | MJM-1-205 | 0.23 | 3.5 |
| 20 | MJM-1- 58 | 0.07 | 1.5 | 70 | MJM-1-208 | 0.02 | 0.6 |
| 21 | MJM-1- 61 | 0.08 | 1.5 | 71 | MJM-1-211 | 0.01 | 0.4 |
| 22 | MJM-1- 64 | 0.07 | 1.3 | 72 | MJM-1-214 | 0.01 | 0.5 |
| 23 | MJM-1- 67 | 0.03 | 1.9 | 73 | MJM-1-217 | 0.02 | 0.4 |
| 24 | MJM-1- 70 | 0.03 | 0.5 | 74 | MJM-1-220 | 0.02 | 0.4 |
| 25 | MJM-1- 73 | 0.03 | 0.8 | 75 | MJM-1-223 | 0.02 | 0.5 |
| 26 | MJM-1- 76 | 0.03 | 0.6 | 76 | MJM-1-226 | 0.05 | 0.5 |
| 27 | MJM-1- 79 | 0.01 | 0.7 | 77 | MJM-1-229 | 0.01 | 0.6 |
| 28 | MJM-1- 82 | 0.01 | 0.8 | 78 | MJM-1-232 | <0.01 | 0.5 |
| 29 | MJM-1- 85 | 0.01 | 0.7 | 79 | MJM-1-235 | 0.01 | 0.6 |
| 30 | MJM-1- 88 | 0.02 | 0.5 | 80 | MJM-1-238 | 0.01 | 0.7 |
| 31 | MJM-1- 91 | 0.01 | 0.7 | 81 | MJM-1-241 | 0.01 | 0.4 |
| 32 | MJM-1- 94 | 0.06 | 2.4 | 82 | MJM-1-244 | 0.03 | 1.7 |
| 33 | MJM-1- 97 | 0.02 | 0.8 | 83 | MJM-1-247 | 0.02 | 1.9 |
| 34 | MJM-1-100 | 0.06 | 0.9 | 84 | MJM-1-250 | 0.01 | 2.5 |
| 35 | MJM-1-103 | 0.02 | 1.0 | 85 | MJM-1-253 | 0.01 | 1.2 |
| 36 | MJM-1-106 | 0.02 | 0.7 | 86 | MJM-1-256 | 0.01 | 1.6 |
| 37 | MJM-1-109 | 0.02 | 0.7 | 87 | MJM-1-259 | 0.02 | 0.5 |
| 38 | MJM-1-112 | 0.02 | 0.8 | 88 | MJM-1-262 | 0.04 | 0.4 |
| 39 | MJM-1-115 | 0.03 | 0.6 | 89 | MJM-1-265 | 0.04 | 1.1 |
| 40 | MJM-1-118 | 0.02 | 0.8 | 90 | MJM-1-268 | 0.02 | 0.4 |
| 41 | MJM-1-121 | 0.02 | 0.9 | 91 | MJM-1-271 | <0.01 | 0.6 |
| 42 | MJM-1-124 | 0.04 | 1.0 | 92 | MJM-1-274 | 0.01 | 0.5 |
| 43 | MJM-1-127 | 0.07 | 1.4 | 93 | MJM-1-277 | 0.01 | 0.5 |
| 44 | MJM-1-130 | 0.03 | 0.8 | 94 | MJM-1-280 | 0.01 | 0.5 |
| 45 | MJM-1-133 | 0.03 | 0.6 | 95 | MJM-1-283 | 0.01 | 0.5 |
| 46 | MJM-1-136 | 0.03 | 0.5 | 96 | MJM-1-286 | <0.01 | 0.3 |
| 47 | MJM-1-139 | 0.02 | 0.6 | 97 | MJM-1-289 | <0.01 | 0.4 |
| 48 | MJM-1-142 | 0.02 | 0.5 | 98 | MJM-1-292 | 0.01 | 0.9 |
| 49 | MJM-1-145 | 0.01 | 0.4 | 99 | MJM-1-295 | 0.01 | 0.6 |
| 50 | MJM-1-148 | 0.03 | 0.8 | 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.