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PGE distribution in massive sulfides from the PACMANUS hydrothermal field, eastern Manus basin, Papua New Guinea: implications for PGE enrichment in some ancient volcanogenic massive sulfide deposits

Published online: 9 February 2005
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Miner Deposita (2004) 39:784–792

Unfortunately the Tables 1 and 2 appeared in the wrong order and Table 4 had incorrect column headings.

Table 1 Description of samples from Roman Ruins, Manus basin, PNG

Core number	Interval	Sample description
SO166-60RD	0–30	Porous fine grained pyrite with abundant porous sphalerite
SO166-60RD	30–60	Semi-massive clastic ore containing 1–3 cm rounded clasts of pyrite ± chalcopyrite in a matrix of anhydrite
SO166-60RD	60–90	Semi-massive clastic ore containing 1–3 cm rounded clasts of pyrite ± chalcopyrite in a matrix of anhydrite
SO166-63RD	0–50	Sandy pyrite ± chalcopyrite in a matrix of anhydrite and barite; the core most likely represents mass wasted material of chimney debris; the upper part is slightly more dense and contains more sphalerite
SO166-65RD	10–30	Porous chalcopyrite ± sphalerite with large 2–3 cm cavity (?) filled by porous chalcopyrite; dark sphalerite distributed throughout the sample, cavities are lined by late barite, also abundant barite in the matrix
SO166-65RD	30–40	Porous massive sphalerite with a red-brown color; fine-grained barite is abundant
SO166-66RD	10–30	Moderately to weakly porous, fine-grained massive chalcopyrite with minor pyrite
SO166-66RD	30–55	Massive sphalerite and barite; sulfides show ribbon texture; this core most likely represents chimney material
SO166-66RD	55–80	Massive sphalerite and barite; sulfides show ribbon texture; there is a chalcopyrite vein (1 cm) crosscutting the sphalerite below 75 cm; this core most likely represents chimney material
SO166-69RD	20–50	Pyrite and chalcopyrite clasts set in a matrix of honey-brown to dark-brown sphalerite + barite
SO166-69RD	50–85	Fine-grained sphalerite with some pyrite, chimney material
SO166-69RD	85–120	Dark to light brown porous sphalerite, often banded, with minor anhydrite filling voids
SO166-69RD	120–150	Dark to light brown porous sphalerite, often banded, with minor anhydrite filling voids
SO166-69RD	150–180	Dark brown massive sphalerite with barite with veins of anhydrite plus minor pyrite ± chalcopyrite
SO166-69RD	180–220	Brecciated material consisting of greenish, siliceous fragments set in a light-grey matrix of amorphous silica, barite, sphalerite and disseminated pyrite

The online version of the original article can be found at <http://dx.doi.org/10.1007/s00126-004-0442-z>

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Table 2 Description of samples from Satanic Mills, Manus basin, PNG

Core number	Sample description
SO166-58GTV-5A	Chalcopyrite-dacite breccia with intensely altered dacite fragments cemented by massive chalcopyrite. This likely represents subseafloor material below an active black smoker
SO166-58GTV-8A3	Porous massive sphalerite with minor barite and some galena, sphalerite is cementing almost “fresh” dacite
SO166-54GTV-1	Massive chalcopyrite chimney with a central conduit rimmed by massive chalcopyrite, black smoker pieces
SO166-59GTV-s24	Interior of porous, large, inactive chimney, chalcopyrite with some black (high-T) sphalerite and rare pyrite, barite in cavities
SO166-59GTV-s63	Interior of porous, large, inactive chimney, chalcopyrite-rich conduit with minor black sphalerite
SO166-59GTV-2E	Outer part of the former chimney dominated by porous sphalerite-barite and some chalcopyrite in the interior of the porous sample

Table 4 Summary of geochemical data for samples from Satanic Mills, Manus basin, PNG

Core number	Ru (ppb)	Rh (ppb)	Pd (ppb)	Ir (ppb)	Pt (ppb)	Cu (%)	Au (ppm)	Zn (%)	Pd/Pt	Pd/Ir
58-5A ^b	3.1	106.4	254.2	2.0	5.4	31.2	11.8	0.3	47.1	127.1
58-8A3 ^a	< 1	1.2	2.0	0.5	8.1	0.7	12.3	53.3	0.2	4.0
54GTV-1 ^b	2.9	117.1	288.4	0.2	< 2.0	26.4	10.2	2.5	288.4	1310.9
59GTV-s24 ^b	< 2	10.7	26.5	< 0.1	5.5	22.6	32.7	4.6	4.8	530.0
59GTV-s63 ^b	3.0	145.0	355.6	< 0.1	< 2.0	27.0	13.5	3.4	355.6	7112.0
59GTV-2E ^a	0.6	18.7	46.8	< 0.1	< 2.0	8.2	16.3	23.0	46.8	936.0
Ø	1.85	66.5	162.3	0.7	3.7	19.3	16.1	14.5	123.8	1670.0
σ	1.0	53.4	130.5	0.7	1.6	10.2	7.1	17.5	132.1	2290.9
ØCu-rich	2.5	94.8	231.2	0.6	3.2	26.8	17	2.7	72.3	2270.0
ØZn-rich	0.6	10.0	24.4	0.3	4.6	4.5	14.3	38.1	5.3	470.0

Half values were used for statistical calculations of samples with values below detection limit

^aZn-rich

^bCu-rich

Ø average value, σ standard deviation