

10 REFERENCES

- Attridge, R.L. (1986):** The Jacomynspan Copper-Nickel Occurrence, Kenhardt District, pp. 1539-1545. *In: Anhaeusser, C.R. and Maske, S., Eds., Mineral Deposits of Southern Africa, II. Geol. Soc. S. Afr., 2376 pp.*
- Binns, R.A. and Scott, S.D. (1993):** Actively forming polymetallic sulfide deposits associated with felsic volcanic rocks in the eastern Manus back-arc basin, Papua New Guinea: *Economic Geology*, Vol. 88, pp. 2226-2236.
- Blignault, H.J. and van Schalkwyk, C.L. (1995):** Exploration targets in the Jannelsepan amphibolite Belt. Internal Iscor Report, p 8.
- Cain, A.C. (1994):** Volcanogenic Massive Sulphide (VHMS) Deposits: Conceptual model review and Lithogeochemical alteration characteristics as a powerful exploration tool. Internal Iscor Report, pp. 1-34.
- Cilliers, F.H. (1987):** Isotope characteristics of the sulfide-bearing sequence of the Areachap Group in the Bokspuits area, Northwest Cape. M.Sc. thesis, Univ. of the Orange Free State (unpubl.), p. 172.
- Deer, W.A., Howie, R.A. and Zussman, J. (1992):** *Rock-forming minerals: Volume 1A, Second Edition.* Longman, London and New York, p. 696.
- Dewey, J.F., Holdsworth, R.E. and Strachan, R.A. (1998):** Transpression and transtension zones. *In: Holdsworth, R.E., Strachan, R.A. and Dewey, J.F. Eds., Continental transpressional and transtnetional tectonics. Geo. Soc. London, Spec. Publ. 135. pp. 1-14.*

- Franklin, J.M., Sangster, D.F., and Lyndon, J.W., (1981):** Volcanic-associated massive sulfide deposits: *Economic Geology* 75th Anniv. Vol, pp. 485-627.
- Gemmell, J.B. and Large, R.R. (1992):** Stringer system and alteration zones underlying the Helleyer volcanic-hosted massive sulphide deposit, Tasmania, Australia. *Economic Geology*, Vol 87, pp. 620-649.
- Geraghty, L.R. (1995):** Preliminary evaluation and statistical analysis of the Conceptual model for Volcanic Massive Sulphide (VHMS) Deposits-Cu, Zn, Pb and Au. Internal Iscor Report, p. 4.
- Geraghty, L.R., Hinder G. and Steenekamp, G.C. (1996):** Northern Cape volcanogenic massive sulphide (VHMS) project: Upington, Klein Begin, Bokspuits and Copperton Subprojects. Internal report: Phase 1. Internal Iscor Report, p. 18.
- Geringer, G.J., Humphreys, H.C. and Scheepers, D.J. (1994):** Lithostratigraphy, protolithology, and tectonic setting of the Areachap Group along the eastern margin of the Namaqua Mobile Belt, *South Africa. S. Afr. J. Geol.*, Vol. 97(1), pp. 78-100.
- Geringer, G.J., Pretorius, J.J. and Cilliers, F.H. (1987):** Strata-bound copper-iron sulfide mineralization in a Proterozoic front arc setting at Bokspuits, Northwest Cape, South Africa - a possible Besshi-type deposit. *Mineral Deposita*. Vol. 22, pp. 81-89.
- Gorton, R.K., (1981):** The petrology of the Kielder sulphide bodies and their wall rocks, District of Prieska, Northern Cape, South Africa: M.Sc. Thesis, University of Cape Town (unpubl.), p. 153.
- Gresse, P. (1978):** Report on the Kielder Centre near Copperton, N.W. Cape. Newmont South Africa Ltd (unpubl.), pp. 21.

- Hicks, J. A., Moore, J.M. and Reid, A.M. (1985):** The Co-occurrence of green and blue Gahnite in the Namaqualand Metamorphic Complex, South Africa. *Canadian Mineralogist*, Vol. 23, pp. 535-542.
- Humphreys, H.C. (1985):** The stratigraphy and structural evolution of an area north-east of Kenhardt, North-west Cape Province, with reference to the effect of late structures upon sulfide mineralization. M.Sc. thesis (unpubl.), Univ. of the West. Cape, pp. 159.
- Joubert, P. (1986):** Namaqualand – a model of Proterozoic accretion: Transactions, Geological Society of South Africa, 89, pp. 79-96.
- Kalogeropoulos, S.L. and Scott, S.D., (1989):** Mineralogy and geochemistry of an Archaean tuffaceous exhalites: The Main Contact Tuff, Millenbach Mine area, Noranda, Quebec. *Canadian Jour. Earth Sci.*, 26, 88-105.
- Knuckey, M.J., Comba, C.D.A., and Riverin, G., (1982):** Structure, metal zoning and alteration at the Millenbach deposit, Noranda, Quebec: in Hutchinson, R.W., Spence, C.D. and Franklin, J.M., eds., Precambrian sulphide deposits, Geol. Assoc. Canada. Special Paper 25, pp. 255-296.
- Krabbendan, M. and Dewey, J.F. (1998):** Exhumation of UHP rocks by transtension in the Western Gneiss Region, Scandinavian Caledonides. In: Holdsworth, R.E., Strachan, R.A. and Dewey, J.F. Eds., Geol. Soc. London Spec. Publ. 135, pp. 159-181.
- Large, R.R., McPhie, J., Gemmill, J.B., Herrmann, W. and Davidson, J. (2001):** The spectrum of ore deposit types, volcanic environments, alteration halos, and related exploration vectors in submarine volcanic

successions: Some examples from Australia. *Economic Geology*, Vol. 96 Nr. 5, pp. 913-938.

Lydon, J.W., (1984): Some observations on the mineralogical and chemical zonation patterns of volcanogenic sulphide deposits of Cyprus: Geological Survey of Canada Paper 84-1A, pp. 611-616.

Lydon, J.W., (1988): Volcanogenic massive sulphide deposits. Part 2: Genetic models. In : Roberts, R.G. and Shearhan, P.A., (Eds) Ore Deposit Models, Geological Association of Canada, pp. 155-181.

McGoldrick, P.J. and Large, R.R. (1992): Geologic and Geochemical controls on Gold-rich stringer mineralization in the Que River deposit, Tasmania. *Economic Geology*, Vol 87, pp. 667-685.

Middleton, R.C. (1976): The geology of Prieska Copper Mines Limited. *Economic Geology*, Vol 71, pp. 328-350.

Noakes, M. and Lanz, T. (1993): Cost estimation handbook for the Australian mining industry compiled by the Sydney branch of the Aus. IMM. Monograph No. 20, pp 412.

Offler, R. and Whitford, D.J. (1992): Wall-Rock alteration and Metamorphism of a Volcanic-Hosted Massive Sulfide deposit at Que River, Tasmania: Petrology and Mineralogy. *Economic Geology*, Vol. 87, pp. 686-705.

Ohmoto, H. and Skinner, B.J. (1983): The Kuroko and Related Volcanogenic Massive Sulfide Deposits: Introduction and Summary of New Findings. *Economic Geology*. Monograph 5, pp. 1-8.

Prinsloo, J. (1998): A geophysical interpretation of the 2920 Kenardt 1:250 000 sheet. Report nr. 1998-0245, Council for Geoscience. p.12.

- Reyneke, L. (2002):** Mineralogical characterisation of a sulphide-bearing sample, Kantienpan, Northern Cape. Internal Report, pp. 1-5.
- Richards, J.M. (1998):** Mineralogical description of mineralised core from KN003, Kantienpan, Northern Cape, South Africa. Internal Report, pp. 1-7.
- Richards, J.M. (1999):** Mineralogical description of various borehole samples, Northern Cape VHMS exploration. Internal Report, pp. 1-39.
- Riverin, G., and Hodgson, C.J., (1980):** Wall-rock alteration at the Millenbach Cu-Zn mine, Noranda, Quebec. *Economic Geology*, Vol. 75, pp. 424-444.
- Rogers, A.W. and Du Toit, A.L., (1908):** Report on the geology of parts of Prieska, Hay, Britstown, Carnarvon and Victoria West. A. Rep. Geol. Dcom. Cape Good Hope, Vol 13, pp. 8-127.
- Rossouw, D. and Geraghty, L.R. (1997):** Northern Cape volcanogenic massive sulphide project: An emphasis on the Bokspuits subproject area. Progress report: Jan.1996 to Jun 1997. Internal Iscor Report, p. 27.
- Rossouw, D. (1999):** Northern Cape volcanogenic massive sulphide project: Final report. Internal Iscor Report, p. 48.
- South African Committee for Stratigraphy (SACS) (1980):** Lithostratigraphy of the Republic of South Africa, South West Africa and the Republics of Bophuthatswana, Transkei and Venda. Geological Survey, p. 690.

- Spry P.G. and Petersen E.U. (1989):** Zincian hogbomite as an exploration guide to metamorphosed massive sulphide deposits. *Mineralogical Magazine*, Vol. 53. pp. 263-269.
- Spry P.G and Scott S.D. (1986):** The stability of Zincian Spinels in Sulphide Systems and their potential exploration guides for Metamorphosed Massive Sulphide Deposits. *Economic Geology*, Vol. 81, pp. 1446-1463.
- Stowe, C.W. (1983):** The Uppington geotraverse and its implications for craton margin tectonics. In: B.J.V. Botha (Editor), Namaqualand Metamorphic Complex. Spec. Publ. Geol. Soc. of South Africa. 10. pp. 147-172.
- Stowe, C.W. (1986):** Synthesis and interpretation of structures along the north-eastern boundary of the Namaqua Tectonic Province, South Africa: S. Afr. J. Geol., 89, pp. 185-198.
- Swartz, H.G. (1987):** The structural evolution of the Areachap Group west of Klein Begin, Northwest Cape Province, South Africa. M.Sc. thesis (unpubl.), Univ. of the West. Cape, p153.
- Terblanche, H.K. (1997):** The geology of the Maranda volcanogenic massive sulphide deposit and environs, South Africa. M.Sc. thesis, Univ. of the Witwatersrand, Johannesburg, p85.
- Theart, H.F.J. (1985):** Copperton-Areachap Cu-Zn mineralization: Unpub. Ph.D. thesis, South Africa, Univ. Stellenbosch, 329 p.
- Theart, H.F.J., Cornell, D.H. and Schade, J. (1989):** Geochemistry and metamorphism of the Prieska Zn-Cu mine, South Africa: *Economic Geology*, Vol. 84, pp. 34-48.

- Urabe, T., Scott, S.D. and Hattori, K. (1983):** A Comparison of Footwall-Rock Alteration and Geothermal Systems beneath some Japanese and Canadian Volcanogenic Massive Sulfide Deposits. *Economic Geology*, Monograph 5, pp. 345-364.
- Van Bever Donker, J.M. (1991):** A synthesis of the structural geology of a major tectonic boundary between a 1000 My mobile belt and a 3000 My craton. *Tectonophysics*, 196, pp. 359-370.
- Voet, H.W., King, B.H. (1986):** The Areachap copper-zinc deposit, Gordonia District, pp. 1529-1537. *In: Anhaeusser, C.R., and Maske, S., Eds., Mineral Deposits of Southern Africa, II. Geol. Soc. S. Afr., 2376 pp.*
- Vokes, F.M. (1969):** A review of metamorphism of sulfide deposits. *Earth Sci. Rev.*, Vol. 5, pp. 99-143.
- Vose, D. (1996):** Quantitative Risk Assessment: a Guide to Monte-Carlo Simulation Modeling. John Wiley and Sons.
- Wagener, J.H.F., van Schalkwyk, L. (1986):** The Prieska zinc-copper deposit, north-western Cape Province, pp. 1503-1527. *In: Anhaeusser, C.R., and Maske, S., Eds., Mineral Deposits of Southern Africa, II. Geol. Soc. S. Afr., 2376 pp.*
- Whitford, D.J. and Ashley, P.M. (1992):** The Scuddles Volcanic Hosted Massive Sulphide Deposit, Western Australia: Geochemistry of the Host Rocks and Evaluation Litho-geochemistry for Exploration. *Economic Geology*, Vol. 87, pp. 873-888.
- Wilson, M.G.C. (1998):** Copper *in* The Mineral Resources of South Africa (M.G.C. Wilson and C.R. Anhaeusser, Eds.): *Handbook, Council for Geoscience*, 16, pp. 209-227.