



CURRICULUM VITAE

PAUL ZWEISTRA

PERSONAL DETAILS

Date of Birth : 16th November 1958
Nationality : South African
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Languages : English - Home Language, Afrikaans - Fluent
: German – enough to survive.
Professional Affiliations : Geological Society of South Africa. Prospectors & Developers
Association of Canada.
Professional Status : Registered Geological Scientist with the South African
Council for Natural Scientific Professions.

EDUCATION AND QUALIFICATIONS

Matriculated from the Waldorf School in Constantia, Cape Town in 1976.
Graduated from the University of Cape Town with a B.Sc. (Geology major) in 1980 and with a B.Sc.(Hons.) (Economic Geology) in 1984 on an Anglo American scholarship.

SUMMARY OF WORK EXPERIENCE

As illustrated by the following list of work experiences, I began my professional career in the field exploring for gold and base metals on various projects in South Africa. After four years in the field I became involved in Kimberlite research and have specialized in this field ever since. I have been an independent consultant since 1995, involved principally in providing Kimberlite exploration services.

WORK EXPERIENCE

In 1981, I began work with the New Mining Business Division of the Anglo American Corporation, as a **Field Geologist** managing exploration projects for gold and base metals in the Sutherland Range greenstone belt and the Central Zone of the Limpopo Mobile belt and surrounding granite terrains. I learnt the skills of geological mapping, exploration geochemistry, basic geophysics (magnetics, EM and IP) and target generation. After being awarded an Anglo scholarship in 1983, I took a year off to complete my Honours degree in Geology at the University of Cape Town.

I returned to Anglo in 1985 and was assigned to the Kimberlite Research Unit at their Research Laboratories in Johannesburg providing services to De Beers exploration and mining projects world-wide. I had full access to the database of thousands of kimberlites worldwide. The research was aimed at improving area target selection criteria and improving interpretive methods to assess the economics of kimberlites and related rocks. The routine or services side of the work involved indicator mineral interpretation for exploration programs and from newly discovered kimberlites and their petrography.

I worked on and gained first hand experience of kimberlites and related rocks from Australia, Canada, China, USA, Russia, Brazil and several African countries including RSA, Botswana and Angola. I was also involved in trouble-shooting on De Beers managed mines, assisting the relevant mine geologists. I co-authored a technical paper in 1994 for the 6th International Kimberlite Conference (Wyatt, B.A., Shee, S.R., Griffin, W.L., Zweistra, P. and Robinson, H.R., (1994). The Petrology of the Cleve kimberlite, Eyre Peninsula, South Australia. In: H.O.A. Meyer and O.H. Leonardos (Eds.), CRPM Spec. Publ. 1B/93, pp.51-68. Proc. 6IKC.

During my tenure at the laboratory I was promoted to Senior Research Geologist.

I left Anglo in 1992 to join Scientific Services in Cape Town as the Manager of their Diamond Division, responsible for the efficient running of their kimberlite indicator mineral picking laboratory, and the interpretation of the resulting data with recommendations. I was intimately involved with the initial interpretation of the early data from Dia Met Minerals / BHP's exploration drilling of kimberlites which led to the Ekati Diamond Mine in the NW Territories of Canada.

In 1995, I co-authored a technical paper with the M.D. of Scientific Services, Dr. John Gurney, J.J. Gurney & Zweistra. P. (1995). The Interpretation of the major element compositions of Mantle Minerals in Diamond Exploration. *J. Geochemical Exploration* **53**, 293-309.

Later in 1995 I formed my own laboratory, Mineral-Logic, to provide kimberlite indicator mineral picking services, interpretation of results, and petrographic studies to the kimberlite exploration community.

I have also consulted on various diamond exploration projects to a number of international and local South African clients. I have provided these services to a wide variety of major and junior listed and unlisted exploration and mining companies.

Among the better publicized projects, the following were notable:-

Liqhobong Mining & Development Company, Lesotho. I undertook all of the initial geological work for MPH Consulting of Toronto, the Project Managers. This locality is now owned and mined by European Diamonds plc.

Gope Project, Botswana. I undertook all of the geological work on this project for MPH Consulting on behalf of TNK Resources. Four kimberlites were discovered. These were joint ventured to De Beers but dropped after they were found to be uneconomic.

Lace / Crown Mine, South Africa. I undertook all of the initial geological work on this project for MPH Consulting on behalf of Rupert Resources. The project has been resuscitated, and is now owned by Diamondcorp plc.

Timiskaming Project, Quebec Canada. Geological consultant for MPH Consulting for Contact Diamond Corp.

During the past 12 years I have co-authored abstracts on two technical papers:-

- Clarke, J., Sobie, P.A., Wilkes, T. and Zweistra, P., (1998). The Geology and economic Evaluation of the Liqhobong Kimberlites, Lesotho. Ext. Abs. 7th Int. Kimb. Conf.
- Zweistra, P., Jarvis, W. and McGeorge, I.B., (1998). The Geology of Micaceous Kimberlite Intrusives, Khutse, Botswana. Ext. Abs. 7th Int. Kimb. Conf.

In October 2006 I was invited to join my three colleagues in forming VP3 Geoservices and am Treasurer of the Company.