



CURRICULUM VITAE

VIVIAN LE QUESNE STUART-WILLIAMS

PERSONAL DETAILS

Date of Birth : 25th July 1950
Nationality : British with Permanent Residence status in South Africa and Namibia.
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Languages : English - Home Language, Afrikaans - Fluent
: French – rusty but fairly proficient.
Professional Affiliations : Geological Societies of South Africa and Namibia.
Professional Status : Registered Geological Scientist with the South African Council for Natural Scientific Professions.
Registered Geological Consultant to the European Union.

EDUCATION AND QUALIFICATIONS

Graduated from the University of Cape Town with a B.Sc. (Geology and Environmental Management majors) in 1978 and with a B.Sc.(Hons.) in Marine Geology – Sedimentology (1st class Honours) in 1979 and a MSc (Geology) in 1981. My Masters thesis was entitled – “*The geometry of some Beaufort Group sandstones and its relationship to uranium mineralization*”.

SUMMARY OF WORK EXPERIENCE

I began my professional career in the field exploring for gold, base metals, coal, various industrial minerals, uranium, and rare earth minerals on various projects in South Africa. After moving to Namibia in 1989, I worked as a self-employed consulting geologist and was involved in the exploration for various commodities, including oil, but eventually specialized in groundwater studies for the Department of Water Affairs, as well as for European Union and Swedish NGO's. I became an accredited consultant to the EU agency, Centre for the Development of Enterprise, in 2000 and have done assignments for them and other clients in 12 African countries, Afghanistan, Uzbekistan and the Philippines - mostly on industrial minerals and dimension stone, but also on gold, coal and base metal projects. I have written three Competent Person Reports for listing purposes.

WORK EXPERIENCE

I began my career in geology during a school vacation in 1967 when I worked as a technical field assistant for the United States Geological Survey who were engaged on a regional geological mapping program in Liberia.

In 1968 after finishing school, I joined **Johannesburg Consolidated Investments** as a field officer and then with their assistance studied and graduated with an MSc in Geology. I worked for JCI until 1989 and held various positions from Field Officer, through junior to senior geologist, Divisional geologist, Regional geologist and eventually **Head of Commodities Unit**. Among the many projects, commodities and countries I experienced with JCI were the following:-

South Africa:

- Responsible for the ultra-deep gold drilling programme at Koster. Drilled boreholes RMC-1 and RMC-2 to about 5,5 km below surface as part of the regional Witwatersrand gold exploration programme.
- Ran the Commodities Unit identifying future exploration trends and identifying future commodity trends.
- Detailed mapping and resource evaluation of the Hendrina coalfield leading to recommendation for purchase.
- Detailed mapping and resource evaluation of the Kuruman carbonates for lead-zinc mineralization.
- Resource evaluation of the Matjieskloof and Laingsberg uranium deposits.
- Resource identification and evaluation of several rare-earth deposits.
- Detailed evaluation and financial appraisal of the Paradys coalfield, Free State, South Africa. This appraisal led to the eventual relinquishment of this coalfield.
- Detailed assessment and evaluation of southern Cape Province bentonite deposits.

Namibia:

- Resource evaluation of the Gorob and Hope polymetallic copper deposits.
- Mapping and geological appraisal of the Usakos carbonates for zinc & lead mineralization.
- Detailed mapping and drilling of the Rudenau skarn deposit for polymetallic copper mineralization.
- Detailed mapping and drilling of the Khan copper ore body.
- Detailed mapping and drilling (>30k) of the Far East exploration area - Omitara.
- Detailed mapping and drilling of the Otjihase ore body.
- Extensive regional prospecting such as the Airport camp and Sneyrivier.

Zimbabwe:

- Detailed mapping and drilling of the Extreme South Target Area (ESTA) for copper, lead and zinc.
- Detailed mapping, sampling and evaluation of chrome deposits within the Limpopo mobile belt.
- Drilling and mapping at the Middle Bridge exploration project.
- Extensive regional geochemical traversing on Exclusive Prospecting Order (EPO) 300.

In 1989 I became a self-employed Geological Consultant in Namibia and worked on a variety of projects amongst which the following were notable:-

- The generation of a database of Namibian mineral occurrences. This database allows the recovery of summary data on mineral projects by commodity (combination of commodities), area, degree of project development, or farm name, or any combination of these.
- A ten-week contract with Robertson Research from Wales, looking at the oil potential of the Owambo Basin (on behalf of OPIC).
- A ten-week contract with Groundwater Consulting Services doing Vertical Electrical Soundings (VES) and magnetometer traversing to identify freshwater borehole sites in the Mangetti Block, southern Owambo.
- A six-month contract with Groundwater Consulting Services sampling all water points in central Owambo. The aim of this project (called Phase 1) was to gather a substantial database of water qualities, depths, etc, and to gain an understanding of the regional geology, hydrology, etc. This programme was conducted on behalf of the Department of Water Affairs as part of European Community Funding.
- A further contract with Groundwater Consulting Services (called Phase 2) also funded by European Community funding. This programme (some twelve weeks in length) involved 52 Kms of resistivity traversing and at least 35 Vertical Electrical Soundings.
- On behalf of the Swedish International Development Agency (SIDA) a documentation of all data gathered whilst working in Owambo relating to geological development of the basin, groundwater qualities, the relation between groundwater and vegetation species, deforestation, etc.

Between 1992 and June 2000, I joined an International Consulting firm and was appointed as **Managing Director** of their local subsidiary in Namibia, **Parkman Namibia (Pty) Ltd.** Among the many projects we handled the following were notable:-

- Several geological projects (including the Haib copper Project a US\$550 million copper mining project, with a 1.2 billion tonne ore body), several environmental studies (including the Haib mine, the Eastern National Water Carrier - Okavango link and the Nui - Sie sepiolite mine, and the Langer Heinrich uranium deposit), and Joint Venture director in several engineering projects including the Eastern National Water Carrier project (ENWC) and the Abenab Pipeline project. Completed several contracts for the European Union's CDE agency, including organizing a Dimension Stone Conference;
- Was part of the team negotiating with the Namibian Government and the Unions for the possible purchase by an international mining group of the Goldfields Namibia mines, which went into liquidation. The mines were eventually "given" to the mineworkers Union;
- Several large programs for the government of Namibia including supervising several rural development projects in the Kunene and Erongo Regions and the more recent Central Namib Area Water Supply Feasibility Study. Other studies included an appraisal of the Ugab River for an irrigation project. I was responsible for the project management of the borehole siting, drilling supervision and supervision of equipping for the Drought Relief Programs in

- Owambo and Kaokoland. I was therefore responsible for some 30% of the entire national Drought Relief effort during the 1992/3 drought program.
- The compilation of Competent Person Reports for several Initial Public Offerings on the LSE and AIM for base metal projects and was involved with a diamond float on the London AIM.
- Developed a project with the European Union - Centre for the Development of Industry (CDI) to assist with funding for several small mining ventures in various countries -

Afghanistan

- A geological assessment of the mineral potential of Afghanistan (Dec 1998) examining several copper and gold deposits on behalf of a London based company and the Taliban government.

Uzbekistan

- A geological assessment of several dimension stone projects on behalf of a London based company. Funding for polishing and cutting plant was to be available from the European Investment Bank.

Malawi

- A geological evaluation of a lime kiln project in Malawi.

Zambia

- An investigation of two agricultural lime projects in Zambia (one of them was already running, the other was greenfield)

Angola

- The investigation of a diatomite deposit for export to Europe; the investigation of a 10 - 12% bituminous tar sand for use in road and runway construction.

Mozambique

- The investigation of a dumortierite project for use as a dimension stone, and the investigation of several pegmatites for beryl and semi precious stone mining.

In June 2000, Parkman decided to exit Namibia and I formed a Consulting company, MSW Namibia (Pty) Ltd to service existing Parkman contracts. Some of the work completed under the auspices of MSW included :-

Namibia

- Troye chalcedony Project - responsible for resource assessment, and all aspects of the project including the business plan.
- Dimension Stone - completed several dimension stone investigations on behalf of local artisanal miners.

Malawi

- Dolomite Mines of Malawi - resource assessment and marketing study, for industrial and agricultural lime.

Mozambique

- Boane Bentonite - full technical assessment (including resource assessment, technology assessment, business plan and marketing strategy);

Lesotho

- Thaseb Sandstone – this project was developed from an artisanal level project through to a viable commercial operation. The information obtained was used by the Chinese and this project is now a large scale sandstone operation.

In 2003, I returned to South Africa and have worked as an independent Consultant on a variety of projects, including:-

Philippines

- Hinoba-an Porphyry Copper Mine – standby/ watching brief on this very interesting copper project on the island of Negros

Namibia

- Haib Copper Mine – responsible for the project. Resource investigation, technology selection, etc. Completed a section 43-101 report for the TSX.

Mozambique

- Boane bentonite – full technical assessment (including resource assessment, technology assessment, business plan and marketing strategy);
- Two Fulls gold Mine – technical and resource assessment;
- Munyena gold Prospect – resource assessment.

Malawi

- Tengani Titanium Project - resource assessment, business plan, preliminary engineering, marketing study, pre-feasibility study;
- Ilomba sodalitic Granite Quarry - resource assessment, business plan, and appraisal;
- Maravi Tantalite Project - resource assessment;
- Feremu Vermiculite deposit – resource assessment, market study, feasibility study;
- Tundulu Phosphate Deposit - resource assessment and market study.

Angola

- Caxito Tar Sands deposit – resource assessment, full appraisal and mine planning;

Zambia

- Funswe gold project - investigation and resource audit;
- Pamaca Amethyst - investigated and resource audit. Programme re-definition;
- Mitondo Ruby project – situated in Ndola rural. An underground ruby mine. Assisted with investigation of ruby resource and underground mining layout.

Tanzania

- Mwansiro gold Reef – resource audit;
- Lupa gold Project – resource audit;
- Galula coal – resource audit and resource investigation.

Botswana

- BEDIA Glass Sands Project – a resource investigation, resource audit, marketing study, detailed project programme;
- Nhabe Dimension Stone – a resource investigation and marketing study.

Cameroon

- Douala cement plant – full audit of the project (including financial, technical and resources).

Democratic Republic of Congo

- Musoshi and Kinsenda Mines – responsible for the environmental programme on these two mines undergoing rehabilitation.

In October 2006 I was invited to join my three colleagues in forming VP3 Geoservices and am a Director and Secretary of the Company. I am currently on a retainer for Copper Resources Corporation looking principally at the Haib project in Namibia. The Haib is a >1000mt low grade copper project. In addition, I am running the environmental programme for the Musoshi and Kinsenda mines in the DRC and have a watching brief on the Hinoba-an copper porphyry project in the Philippines.