



Dr. Gerhard du Plessis

Biography

- A successful geologist with a wide range of geological field mapping, underground mining, geochemical exploration,
- Exploration project management, ore resource management and geochemical laboratory Experience.
- An enthusiastic and versatile team player with proven leadership qualities, analytical and logic problem solving abilities, together with efficient communication and computer skills. Held the position of competent person with Mbada Diamonds, Zimbabwe, under SAMREC code for diamonds. Currently new business development is the main activity.

Experience

PALAEO ROCK GEOLOGICAL CONSULTANTS

Consulting Geologist

September 2012 – 2020

- Competent Persons Reports on various diamond assets along Vaal River in Northern Cape.
- Geological reports on alluvial gold of Lisbon and Berlyn area south of Sabie.
- Geological report on exploration drilling for chrome in the Lebowa area.
- Geological report on manganese project near Ventersdorp.
- Consulting on various projects for alluvial gold and rubies in Mozambique in the Manica, Montepuez, Tete and Nampula areas.

Consulting Geologist

Mbada Diamonds, Zimbabwe:

01 September 2010 – September 2012

- Discovered the lamproite responsible for diamond fields of Marange.
- Development and execution of exploration programs for the company
- Target generation for exploration programs
- Evaluating exploration targets
- Evaluating ore resources
- Compilation of ore resource statements
- Managing drilling contractors
- Direct the effective achievement of exploration objectives
- Long term exploration planning for company
- Main achievement – The discovery of a Lamproite body which was the primary source for the alluvial diamond deposits in the Marange region of Zimbabwe



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MINING THE FUTURE

Executive and Consulting Geologist

Lonrho Mining (Pty) Ltd

March 2002 – 16 January 2009

- To operate effectively as an Exco Member
- To ensure that the Ore resources of the Company are understood, defined and managed
- To ensure that the Health of the Geology discipline is maintained and improved
- Diamond Valuation and Analysis
- Responsible for all geological exploration in South Africa and Angola
- Responsible for all mining permits and liaison with the Department of Minerals and Energy
- Reporting directly to CEO of Lonrho Mining
- Main achievements - Since listing of company in Perth in 2007, managed to increase ore resource inventory by 18Mt of gravel through successful exploration drilling
- Part of geological team that discovered the Lullo Diamond Field in Angola
- Successful application of Prospecting Right for Vaalbos (previously a National Park)
- Through diligent resource management, Lonrho Mining recovered a 235 carat diamond at the Schmidtsdrift project area

Geological Superintendent

Rex Diamond Mining Corporation

January 1999 – February 2002

- Divisional Head for Geology Department
- Responsible for all exploration in South Africa
- Responsible for Ore Resource Management of Loxton, Bellsbank and Rex Mines
- Main achievement – Compiled the first proper ore resource calculations for Loxton, Bellsbank and Rex Mines

Ore Reserve Manager

Harmony Gold Mining Co. Ltd, Virginia

April 1997 – January 1999

- Divisional Head for Geology, Survey and Sampling departments
- Together with Mining Manger, Engineering Manager and Financial Manager, formed part of Franchised Management Team
- Responsible for Ore Resource Management by means of Geostats (Datamine Kriging)
- Together with Financial Manager, responsible for annual Strategic Plan
- Reporting monthly to Board of Directors on achieved results

Senior Geologist

St. Helena Gold Mine, Welkom

May 1986 – April 1996

- To advise senior managers on known geological conditions to assist in the planning gold production
- Underground mapping, logging of boreholes and updating plans



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- Investigating complex structural areas, presumably uneconomic areas and other potential economic horizons to identify areas of economic ore, using geostatistics, structural and sedimentological techniques
- Management of diamond drilling operations
- Main achievements – Product a detailed plan with target areas of No 10 Shaft by means of geostatistics, which increased mine ore reserves by 5 years
- Proved the existence of a block of reef, which will produce an extra 600kg of gold at No 4 Shaft
- Evaluated the whole of No 8 Shaft which will prolong the life of No 8 Shaft by another three years

Assistant Director

Counsel for Geoscience of S.A.

January 1979 – April 1986

- To manage the whole electron microscopy division of the laboratory section
- To operate the electron microprobe and provide an analytical service to the other departments as well as to various other academic institutions in S.A.
- To manage the quarterly merit assessments of six geologists and seven laboratory assistants
- To train people in using the electron microprobe
- To research the origin of granites east of Onseepkans in Bushmanland
- To research the origin of certain ultramafic bodies in the Barberton area
- Ad hoc projects:
- As Assistant Director in the Section for Specialised Studies and Laboratory I did special reports on certain coal deposits of the Transvaal Super Group, platinum deposits in Limpopo Province and Ni and Cr deposits on the Eastern Limb of the Bushveld Complex in South Africa
- Successfully developed a method to analyse fossilised pollen with the electron microscope

Main Achievements

- Solved the origin of the granites east of Onseepkans
- Published an award-winning article on electron microscopy

EDUCATION

Matric

1969: Trompsburg High School, Southern Free State.

1976. B.Sc. U.O.F.S

B. Sc. (Hons) Geochemistry

1977: U.O.F.S

M. Sc.

1978: U.O.F.S

Ph. D.

1986: U.O.F.S

Professional Geologist

1982: The South African Council for Natural Scientific Professions