



Resume
Robert Barnett
Industrial Minerals Specialist

Summary of Experience

Robert is a senior mining industry professional with over 40 years' experience working in industrial minerals as a field geologist, laboratory manager, product development manager, mine and plant manager. Robert has also spent 10 years working in mineral, chemical and specialist metals recycling and salvaging. Robert's recent experience includes graphite, limestone, lithium, silica, bentonite and magnesite project advice and management.

Commodities of experience; Graphite, Limestone, Bentonite, Lithium, Kaolin, Silica, Barytes, Specularite, Vermiculite, Tantalum, Copper, General Industrial Minerals

Countries worked; South Africa, Saudi Arabia, Mozambique, Malawi, Tanzania, Uganda, Sri Lanka, Zambia, Zimbabwe

- **2009 – Present - Industrial mineral specialist including mineral and waste recycling**
 - Competent Person reporting for graphite projects in Tanzania and Mozambique. Responsible for reporting of mineral resource grade and tonnage, metallurgical test work and potential product marketing.
 - Independent geological reviews of graphite projects in Sri Lanka and Saudi Arabia.
 - Supervision of graphite drilling program in Mozambique ensuring logging, sampling and density measurement for Competent Person reporting (JORC 2012).
 - Reconnaissance survey of lithium prospects in Namibia.
 - Technical review of glass grade silica project in Mpumalanga, South Africa.
 - Survey of copper oxide deposits in Zimbabwe for a South African chemical company.
 - Competent Person (JORC 2012) for cement grade limestone project in Zambia and South Africa.
 - Geological consultant on a limestone deposit in South Africa and Botswana suitable for SO₂ sorption in coal fire power stations.
 - Valuation of a limestone prospect and a magnesite mine in Zimbabwe.
 - Regional review of fertilizer minerals and markets in South African Development Community countries.
 - Technical reporting on vermiculite deposit in Uganda including advice on sample test procedures and laboratory test equipment.
 - Mine work program for a coal mining right in South Africa.
 - Prospecting and mine license application on a Mozambique bentonite project.
 - Prospecting right application for bentonite prospecting in Western Cape of South Africa.
 - Team member on a briquetting project to supply a South African based metallurgical smelter.
 - Team member for the development and patenting of stemming product for mine blast holes.



- **2009 - General Manager – Trendy Trading (Pty) Ltd, South Africa**
 - Management of waste recycling plant and projects in South Africa

- **2007 – 2009 Senior Technical Consultant - Mineral Corporation, South Africa**
 - Mining and Prospecting Right applications in South Africa.
 - Survey of industrial minerals in South African Economic Community (SADEC).

- **2003 – 2007 - Independent Mineral Consultant, South Africa**
 - General consulting work for a wide range of companies mostly for abrasive products, salvaging and recycling, a welding rod manufacturer and to a mineral consulting company.
 - Conducted a market study for kaolin in South Africa.

- **2000 – 2003 Prospector and Businessman, South Africa**
 - Established a UK company to market a micronizing mill manufactured in South Africa.
 - Application and management of a specularite project in Zambia and conducted bulk sampling processing and marketability testing.
 - Traded in ceramic raw materials for supply to a South African glaze manufacturer.
 - Consulted to a tantalite project in Zimbabwe.
 - Conducted a market study on bentonite in South Africa.

- **1980 – 2000 – Geologist to Technical Director – G&W Base and Industrial Minerals (Pty) Ltd – South Africa**
 - A range of industrial minerals including limestone, feldspar, bentonite, kaolin, barytes, ball clays, ochre, talc and attapulgitite (magnesium aluminium phyllosilicate).
 - Managed the following tasks;
 - Maintenance of company mine ore reserves and ore quality.
 - Mines included bentonite, limestone, talc, barytes, attapulgitite, specularite, ball clay and ochre.
 - Management of mine ore reserves and ore quality as well as prospecting projects for the company including limestone, feldspar, bentonite, talc, silica, zeolite, barytes, attapulgitite, specularite, ball clay and ochre in Southern Africa.
 - Management of geology, laboratory, quality control, quality assurance, research and product development and production departments.

- **1972 – 1978 - various Geologist roles - South Africa**
 - Worked for Zimro (Pty) Ltd, Aloe Minerals and Texas Gulf
 - Roles included prospect and mine geology for coal, base metals and platinum projects.



Qualifications

- 1968 - 1972 Bachelor of Science in Engineering and Mine Geology, University of Witwatersrand, South Africa
- 1979 Masters Industrial Mineralogy, University of Hull, United Kingdom
- 1988 – 1972 Quality Assurance National Higher Diploma, Pretoria Technikon, South Africa
- 1993 National Higher Diploma in Quality Assurance, Pretoria Techni

Professional Membership

- Geological Society of South Africa (GSSA)
- South Africa Council for Natural Scientific Professions (SACNASP)

Publication

A. Scogings and R.N. Barnett, Industrial Mineral resources: Reporting according to Clause 49 of JORC 2012, Mining Engineering, Volume 66 No. 7, July 2014

Languages

- English (written and spoken)
- Afrikaans (written and spoken)