

## CURRICULUM VITAE

### PERSONAL DETAILS.

Name: Michael Tickner Brett.  
Date of birth: 17 April 1941.  
Place of birth: Johannesburg. Republic of South Africa.  
Identity No. 410417 505 4085.

### EDUCATION.

- Primary: Lord Milner Primary School. Settlers.
- Secondary: Pretoria Boys High School. Matriculated 1958.
- Tertiary: University of the Witwatersrand. 1961 – 1964.  
B. Sc. Eng. – Mining Geology.

### CONTACT DETAILS.

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### WORKING CAREER.

1. 2003 to present: Retired from Anglo American Corporation.  
I was retained to consult to Anglo Coal on various projects. In addition I was employed by the Department of Minerals and Energy and other mining companies on a variety of projects. Since retirement I have been involved in the following projects:
  - Transvaal and Delagoa Bay Colliery (T&DB).  
This is an ownerless and defunct colliery which presents a safety and environmental risk to neighboring communities. The objective was to carry out trials in selected areas to collapse the old workings and to rehabilitate with the view to rendering the area safe for people to traverse over and to rehabilitate the area for agriculture purposes.  
The long-term objective is to use the T&DB project as a template for rehabilitating other ownerless and defunct collieries.
  - Parques 3,0Ml/day biological desalination plant.  
Assisted Anglo Coal to source alternative and more economical energy sources for bacteria in the plant.
  - South African Coal Estates (SACE) Mine Water Management Project.  
Assisted with the detailed mine water balance for the collieries in the SACE complex as well as evaluating the long-term impact that neighboring mines may have on the complexes water balance during the operational and post-closure phases. This work was used to quantify the long-term water management and treatment philosophy for the complex.  
Following on from the mine water balance evaluation I led a team to conduct a feasibility study on building a 20,000 cubic meter per day desalination plant treating excess mine water for the Emalahleni Local Municipality (Witbank). The feasibility study has resulted in the plant being constructed and commissioning commenced in May 2007.
  - Bank and Goedehoop collieries.  
I assisted with the detailed mine water balance for the collieries as well as evaluating the long-term impact that neighboring mines may have on the complexes water

balance during the operational and post-closure phases. This work will be used to quantify the long-term water management and treatment philosophy for the complex.

- I am on the team of consulting engineers evaluating the collection of excess mine water generated from coal mines in the Witbank and Middelburg region, desalination treatment and selling of the water to Municipalities.
- I carried out a number of due diligence exercises on coal mines in the Witbank and Ermelo coalfields as part of mergers and purchases.
- In 2006 I was on a team that carried out an evaluation of Eskom's ability to supply coal to its power stations through to 2010.

2. 1981 – 2002: Joined Anglo American Corporation of South Africa and seconded to AMCOAL, now known as ANGLO COAL, the coal mining division of Anglo American.

- 1995 – 2002: I was asked to join the AMCOAL Board of Directors and promoted to Senior Vice President (previously titled Consulting Engineer) – Opencast Operations responsible for Kriel, New Vaal, Kleinkopje, Greenside and Landau collieries. The five mine Managers reported to me and it was my duty to oversee the operations for optimal mine design and coal reserve extraction, efficient operating costs, capital expenditure control, implementation of the new Mine Health and Safety Act, implementation of the new Environmental Act, ensure that the collieries were adequately staffed and to report to the Board on these collieries. The Anglo Coal Highveld Hospital also fell under my control.

During this period I was responsible for the planning, design and implementation of the South African Coal Estates Expansion Project which brought about the expansion of Kleinkopje and Greenside collieries.

I was on the team that carried out the due diligence exercise on Goldfields Coal which resulted in the company being bought by Anglo Coal. My main focus of attention was Greenside Colliery to assess its reserves and future mining method. The report recommended only focusing on mining the No. 4 Seam. The mine plan was to convert from a conventional bord and pillar mine to a five section continuous miner operation with upgraded supporting equipment. The designed tonnage was achieved and exceeded with four sections resulting in the fifth section not being purchased. The reserves from Kleinkopje, Landau and Greenside collieries were reallocated between the three mines resulting in Kleinkopje Colliery being expanded and the lives of the collieries extended to thirty years. After the purchase of Goldfields Coal, Greenside Colliery was incorporated into South African Coal Estates and then became my responsibility to implement the recommendations from the due diligence report.

During 2002 I was on a large due diligence team assessing Khumba Resources. I was tasked specifically to assess the current Sishen Mines opencast operations.

- 1989 – 1994: Was responsible for the construction and commissioning of three mini-pit operations and the Landau III Colliery which was designed to produce 6,0 million ton/year of coal.

During this period I was a team member carrying out a due diligence exercise on the Venezuela coal field west of Lake Maricaibo. The exercise led to AMCOAL purchasing the mine with its supporting export facilities on the lake.

- 1987 – 1988: With the expanding tonnage through the Richards Bay Coal Terminal, AMCOAL needed to bring on line additional export operations. I was charged with assessing various coal fields and existing operations by carrying out feasibility studies to source the tonnage for the expansion.

The feasibility studies involved reserve assessment, mine design, equipment specification, plant design, train load-out design, employee housing, infrastructure requirements and design, environmental impact assessment and preparing and

- submitting the Environmental Management Programme Reports. During this period three mini-pits and two new mines were submitted to the board for approval.
- 1984 – 1986: Promoted to Consulting Mining Engineer responsible for the design, equipment procurement and staffing of New Vaal Colliery to supply 15,6 million ton/year of steam coal to Eskom’s new Lethabo Power Station situated south of Vereeniging.
  - 1981 – 1983: Commenced as Senior Divisional Mining Engineer in the Projects Department. I was responsible for mine and plant designs based on geological drilling for a number of coal fields which were tendered to Eskom for their new generation 36000MW coal fired power stations.
3. 1976 – 1981: Transferred to Rio Tinto – Namibia as General Pit Superintendent for the new Rossing Uranium Mine situated 75km east of Swakopmund in Namibia.
- I was responsible for designing the pit based on the geological drilling carried out on the deposit. Thereafter I commenced with selecting and purchasing the mining machinery and primary crushing plant equipment. I recruited a core team of section mining, mechanical and electrical engineers and commenced production after construction of the equipment and infrastructure facilities. The mine was designed to produce 20 million ton/year of ore and 40 million ton/year of waste and low-grade ore.
  - In 1978 it was decided to increase uranium production by increasing the ore grade to the plant. I was charged with designing and commissioning a 5 million ton/year underground mine employing trackless mining machinery and an open stooing mining method for ore extraction.
  - In 1980 I was promoted to Assistant General Manager responsible for the mining and uranium extraction plant as well as for the safety, health and environmental aspects of the operations.
4. 1970 – 1975: Joined Rio Tinto – Australia and seconded to Hamersley Iron Ore Company situated in the northwest part of Western Australia.  
Commenced as Assistant Pit Superintendent at the Paraburdoo Iron Ore Mine.
- This was a new operation designed to initially produce 20 million ton/year of iron ore for exporting to Japan and Europe through the port terminal of Dampier some 250km to the northwest of the mine. Responsibilities included pit planning, drilling, blasting and ore and waste transport to the primary crusher system. On commissioning the pit operations I was transferred to the processing plant for its commissioning. The plant consisted of crushing, screening and train loading facilities.
  - After some 18-months I was transferred to the port facilities as Port Superintendent responsible for commissioning the 30 million ton/year new East Intercourse Island ship loading facility.
  - In January 1975 I was transferred to Mount Tom Price Mine as Pit Superintendent responsible for pit planning and all aspects of pit production for 60 million ton/year of iron ore production.
5. 1968 – 1969: Joined Northern Lime Company to gain opencast mining experience.
- Worked as Production Manager responsible for pit planning and limestone production from the pit. Also responsible for hydrated and de-hydrated lime from the plant. The plant also utilised gas from coal gas producers for firing the lime kilns.
6. 1965 – 1967: Buffelsfontein Gold Mine – General Mining and Finance Corporation.
- Commenced working as a Learner Official then Miner, Shift Boss and Acting Mine Captain in the underground production sections.
7. 1961 – 1964: Studied at the University of the Witwatersrand for B. Sc. Mining Geology.
- Vacation work was carried out at Sub Nigel Gold Mine, West Rand Consolidated Gold Mine and Buffelsfontein Gold Mine.

8. 1959 – 1960: African Selection Trust.
- Worked as a Field Assistant for a base metal geological prospecting team working in Namibia, South Africa and Southern Rhodesia (Zimbabwe). Saved sufficient money to commence with my University studies.

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