

# David A. Tutton C.Eng

Consultant Mining Engineer

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## EXPERTISE AND CONSULTANCY SERVICES:

Operational reviews and support  
Operations-Planning improvement implementation  
Mining Contract definition, negotiation and audit  
Evaluation of alternate mining methods and systems  
Continuous mining systems

## RECENT PROJECTS:

### Operations Mine Planning and Engineering

Cerro Matoso Nickel Mine, Colombia  
Chuquicamata Mine, Chile  
Collhuasi Mine Trolley assist study  
Hamersley Iron, Australia  
KCGM Operations review – Voids management  
KPM Gold mine, Paracatu, Brazil  
Mount Keith Spile project, Australia  
MRN-Bauxite operations, Trombetas, Brazil  
Mt Keith Mine, BHPB, Nickel West, Australia  
Ramagundam coal, India  
Rio Paracatu Mineracao Ltda, Brazil  
Salobo Mine, Vale, Brazil  
Sossego Copper Project, Vale, Brazil  
Suncor Oil Sands, Cold eyes review, Canada  
Tomi Gold mine, Venezuela  
Troilus Mine, Canada  
Vale – Viagem Grande Fe Operations, Brazil  
Veladeiro Gold mine, Argentina  
Zhayrem Mn-Fe Mine, Kazakhstan

### Plan and Budget Audits and Reviews

Alemao Copper Project, CVRD, Brazil  
Andina Mine, Chile  
Antamina Mine, Peru  
Cerro Casale, Chile  
Dexing Copper, China  
Donlin Creek, Alaska, USA  
Lihir Gold project, Papua New Guinea  
Michilla Mine, Chile  
Mount Arthur Coal IPCC study, Australia  
North Mara Mine, Tanzania  
Olympic Dam Expansion, Australia  
Pascua Gold Project, Chile  
Reko Diq copper project, Pakistan  
Rio Narcea Gold, Spain  
Rössing Uranium, Namibia  
Sossego Copper Mine, CVRD, Brazil  
Spence Copper project, BHPB, Chile  
Veladeiro Gold mine, Argentina

### Reserve Audits

Andacollo copper, Chile  
Buzwagi Gold mine, Tanzania  
Michilla Mine, Chile  
Minera Escondida Limitada, Chile  
Sossego Copper Project, Vale, Brazil  
Spence Copper Project, BHP, Chile  
Tulawaka Mine, Tanzania

### Mine Contracting audits

Lihir Gold mine, Papua New Guinea  
Refugio Gold Mine, Chile  
Sefwi Gold Project, Ghana  
Tarkwa Gold Mine, Ghana

### Project Assessment

Cambridge Resources, Spain  
Jinshan Mines, 217 Project, China  
Onça-Puma Laterite Nickel, Brazil  
Software development for Barrick Gold, Canada

## EDUCATION:

MSc (Mining Engineering), Queens University, Canada, 1977.

## ASSOCIATIONS:

American Institute of Mining Engineers, (Member)  
IOM3 London (Fellow), Chartered Engineer, UK.

## LANGUAGES:

English (Mother Tongue), Portuguese (Good), German (Good) and Spanish (Basic).

## BACKGROUND:

1990 to 1991 RTZ Limited, London, England, Group Mining Engineer  
1985 to 1990 RTZ Mineracao Ltda, Brasilia and Paracatu, Brazil. Chief Mining Engineer  
1981 to 1984 Palabora Mining Company, Phalaborwa, South Africa, Assistant Mine Superintendent  
1979 to 1981 Golder Associates London, England and Vancouver, Canada, Mining Engineer  
1977 to 1978 Mining Resource Engineering Ltd, Kingston, Canada, Mining Engineer

## PUBLICATIONS:

"Palabora - 1 Mt of rock moved per year", Rubber and Road, Firestone (S. Africa), 1984.  
"Computers in Mine Planning and Pit Control", University of Delft Mining Conference, Delft, Holland, 1985.  
"Integrated open pit planning and systems", Latin America, Santiago, Chile, 1986. IMM, London, May 1987.  
"Morro do Ouro - RTZ's new low -grade gold mine in Brazil", Mining Magazine, October 1988.  
Application of mobile in-pit crushing and conveying in large, hard rock open pit mines, Niagara, Oct - 2009  
Alternative waste mining systems for the Paragominas bauxite mine. Belo Horizonte, Oct-2011.

## Development study peer review/stage gate review

Technical and Mineable Reserve audits  
Mine equipment selection studies  
Project cost estimation and evaluation and assessment  
Technical Training

### Pre-Feasibility/Feasibility Engineering and reviews

Angouran Zinc project, Iran  
Bannerman Resources, Namibia  
BGP Project, Russia  
Bulghah Gold project, Saudi Arabia  
Canciri-Orta Lignite Project, Turkey  
Castellanos Pb-Zn Project, Cuba  
Cerro Corona Project, Peru  
Choghart & Se Chahun iron mines, Iran  
Cowal Lake Gold Project, Australia  
Donlin Creek, Alaska, USA  
El Hatillo Coal IPCC studies, Vale, Colombia  
Fujiawu Copper project, China  
El Teniente open pit study, Codelco, Chile  
Ferrous Brazil, Iron projects  
Jack Hills Iron project, Australia  
Lumwana Copper mine, Zambia  
Jabali Zinc project, Yemen  
Lanping Zinc project, China  
Loma de Hierro Ni Project, Venezuela  
Mount Arthur Coal IPCC studies, BHPB, Australia  
Paragominas Waste mining studies, Vale, Brazil  
Pascua/La Nevada Project, Chile  
Petequilla project, Panama  
Pierina Gold Project, Peru  
Olympic Dam Open pit, Australia  
Spence Project, Equipment Selection Audit , Chile  
Sukoi Log Project, Russia  
Suurikuusikko Gold Project, Finland  
Thach Khe Iron Project, Vietnam  
Troilus Gold Mine, Canada  
Tomi Gold mine, Venezuela

### Due Diligence

CVRD privatisation, BNDES  
Carajas region Au/Cu mines, Brazil  
Confidential gold and copper properties, Barrick Gold  
Iron open pit properties for North, Brazil  
Las Cruces Project, Spain  
Onça-Puma/Canico CVRD, Brazil  
Placer acquisition, Barrick Gold

### Others

Best Practices manual for mine planning, BHP Copper  
Key Performance Indicator Studies, BHP-Billiton  
Organizer BHPB Continuous Mining study workshop (2011)  
Open Pit Benchmarking studies  
Techno-Economic Model of Norilsk Complex, Russia  
Technical Co-operation with Jiangxi Copper, China  
Member of Mine Planning Board for Escondida Mine, Chile  
Member of Mine Planning Board for Chuquicamata Mine, Chile  
Member of Board, Zhayrem GOK, (Fe-Mn), Kazakhstan (2001-3)  
Retained as consultant to Cerro Matoso, Colombia (2005-2006)  
Retained as consultant to Codelco, Chile (2004-2013)  
Retained as consultant to Vale, Brazil (2002-2013)  
Retained as consultant to Barrick Gold Corporation (1998-2012)

### Training Courses presented

Open pit planning - Jiangxi Copper, China (2003)  
Open pit planning and Engineering – Barrick Gold, Russia (2005)  
Planning in open pit mines – Vale, Brazil (2007)  
Planning in open pit mines – Ferrous, Brazil (2008)  
Planning in open pit mines – Barrick Gold (2008)  
Planning in open pit mines – Codelco (2010)

ACSM (Min.Eng.), Camborne School of Mines, Cornwall, 1976.

Canadian Institute of Mining, Metallurgy and Petroleum (Member)