

# JAMES P. LLORCA

Professional Geologist

## PROFILE

A qualified geologist with practical experience in both technical and management roles in the exploration and mining industry in Australia, Indonesia, the Philippines, China and most recently, Zambia, Africa. This experience has resulted in highly developed technical skills in geological interpretation and resource modelling in addition to JORC competency level resource estimations across various commodities. Has significant experience in resource due diligence, technical exploration and mining appraisals and JORC compliance reviews.

A dependable, goal driven, highly motivated professional who has demonstrated commitment of providing quality service to clients within budget and time constraints, together with strong supervisory capabilities, technical competence and broad aptitude in the use of modern computer technology. Always approach tasks with professionalism, efficiency, determination and dedication, understanding the need for planning, personnel and equipment safety, time management and achievement of deadlines. Skilful at problem solving, conflict resolution and capable of working autonomously or in a team based and multi-cultural environment.

Other business acumen includes business development, client relations and risk management.

## EXPERTISE

- Project to Senior Corporate Management
- Project or mine evaluation, valuation and scoping to feasibility studies
- Grass roots to detailed exploration geology for precious and base metals, copper, epithermal and alluvial gold, alluvial diamond, nickel, chromite, and iron (banded and sand) ore. A Competent Person for reporting exploration results
- Production and mining geology for precious and base metals
- Drill planning, supervision, logging, QA/QC implementation and studies
- Due diligence audits for precious and base metals, copper, alluvial gold and diamond, nickel, chromite, and iron (banded and sand) ore
- Database management and audit
- Orebody interpretation and modelling
- Classical to geostatistical resource and reserve estimation compliant to JORC 2012 or NI 43-101 reporting standards. A Competent Person for reporting Resource Estimates on gold, silver, copper, nickel sulphide and laterite and iron ore.

## EMPLOYMENT EXPERIENCE (LAST 10 YEARS)

<b>Principal Geologist</b>	<b>USAID – MIDAS Project Kabul, Afghanistan</b>	<b>5/2014 to present</b>
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As at May 2014, joined the US Agency for International Development (USAID) funded Mining Investment and Development for Afghanistan Sustainability (MIDAS) Project based in Kabul, Afghanistan. MIDAS focuses on three primary areas in the Ministry of Mines and Petroleum (MoMP): 1) legal and regulatory reform, 2) technical assistance to the MoMP, and 3) Small and Medium Enterprise (SME) development. The project will develop the MoMP's ability to implement effective policies and to facilitate international investment in the Afghanistan's mining sector. It will also build local capacity to plan, design, and implement mining concessions through a transparent tender process in Afghanistan. In addition, it will provide technical support to private sector entities related to extractive industries and energy development with focus on community engagement when developing mining sites and with the goal of generating significant revenues for the government as donor support winds down

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<b>Principal Geologist</b>	<b>Natural Resources Industry Consultants, VIC, Australia</b>	<b>4/2013 to present</b>
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As at April 2013, decided to venture as an independent consulting geologist, providing services to mining and exploration geology contracts in data management, resource estimations, orebody modelling, independent audits/due diligence studies, QA/QC reviews, property investigations, technical reporting (JORC & NI 43-101 compliant reporting) and project management. This led to a regular consulting arrangement with the Geological Survey of Victoria doing JORC standard technical report reviews of various commodities.

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<b>Principal Resource Geologist</b>	<b>Castlemaine Goldfields Ltd</b>	<b>2/4014 to 3/2014</b>
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In February 2014, employed by Castlemaine Goldfields Ltd (CGT) on fixed term (two-months) permanent part-time basis as Principal Resource Geologist, who provides economic evaluation of the company's Central Victorian gold projects. The position also assist in the review of potential M&A projects for the parent company (LionGold Corporation Ltd - LGC) as appropriate and in the estimation and/or review of the corporate mineral resources as appropriate.

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<b>Associate Geologist</b>	<b>H&amp;S Consultants Pty Ltd, Cheltenham, VIC, Australia</b>	<b>06/2013 to 12/2013</b>
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A six months contract as an Associate of H&S Consultants ("H&SC") Pty Ltd, with specialist skills in a range of geological aspects including but not limited to, grass roots exploration through to data management, drill planning and QAQC and on into statistical analysis and resource estimation (Micromine software). Due to the slowdown in the consulting business, this engagement was no longer extended.

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<b>Principal Resource Geologist</b>	<b>Intrepid Mines Ltd, Brisbane, QLD, Australia</b>	<b>04/2012 to 03/2013</b>
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The Principal Resource Geologist, is based at the company's Brisbane corporate office. Reporting to the General Manager Project Development. The role functions within a multi-disciplinary team of geologists, mining engineering staff and metallurgists as the company's projects moves through the feasibility study stages to development.

In this role, as the CP, I worked for the update of the resource estimation of the Tujuh Bukit Cu-Au Project, conducted QA/QC audits, and contributed in the compilation and completion of the Engineering Study (PFS).

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<b>Principal Geologist &amp; Consultant Manager</b>	<b>Mining Plus Pty Ltd, Melbourne, VIC, Australia</b>	<b>07/2010 to 04/2012</b>
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Established the geological group of this mining centric consultancy. Hired and trained staff, and established internal control policies. Also promoted the newly established company capability that led to continuous workflow and repeat clientele. Projects covered independent high level reviews, resource estimation and due diligence. Commodities included gold, copper, silver, nickel, coal, iron ore and uranium in countries like Australia, Indonesia, the Philippines, Mexico and Zambia.

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<b>Exploration Manager.</b>	<b>Dragon Mountain Gold Pty Ltd, Perth, WA, Australia</b>	<b>02/2008 to 07/2010</b>
<b>Director</b>	<b>Xinjiang Pan Pacific Mining Co (JV), Xinjiang SAR, China</b>	<b>05/2008 to 07/2010</b>

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As the Exploration Manager of DMG's China assets, I provided prompt and full information of the Business or affairs of exploration operations and in all respects conform and comply with all reasonable directions given by the Board. Create the future and manage the present, uphold, safeguard and promote the company's values, vision and mission, and execute the responsibilities of a company director according to legal and ethical standards. In this dual role, I was instrumental in managing the increase and upgrading the gold resources for the Lixian Project, as well as maintain all other China

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assets during difficult financial times (the GFC). Eventually the projects have been off loaded to a Chinese company.

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<b>Senior Geologist</b>	<b>AMC Consultants Pty Ltd, Melbourne, VIC, Australia</b>	<b>08/2007 to 01/2008</b>
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I reported to the Group Manager, and carried out technical assignments under the supervision of the designated Project Manager while managing and mitigating AMC's exposure to risk. In this role I evaluated and modelled a copper sulphide project in Spain; heavy mineral sands in Senegal; gold project in WA, Australia; nickel laterite in Greece, base metal sulphide in Tasmania; and a copper porphyry in Kazakhstan.

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<b>Geologist – Mineral Resources</b>	<b>Geological Survey of Victoria, DPI, Melbourne, VIC, Australia</b>	<b>09/2006 to 07/2007</b>
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Managed the digital data capture projects and undertaking analysis and modifications of geological databases. Drafted detailed project plans (tasks, timing, quality standards, budget and resources) for the data capture and analysis of the Drill-hole and Geochemistry databases which was implemented under the Gold Undercover Initiative of the Victorian Government.

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<b>DP Supervisor &amp; QA Coordinator</b>	<b>American Banknote Pty Ltd, Highett, VIC, Australia</b>	<b>12/1999 to 08/2006</b>
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Managed and supervised the rapid turnaround of information through effective quality data management and processing. This role covers three shifts (24x7) in a high security environment that produces credit cards, bank cheques and other secure transactional documents.

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<b>Consulting Geologist</b>	<b>Integrated Resources Solutions, Melbourne, VIC, Australia</b>	<b>03/1999 to 12/2002</b>
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Conducted a due diligence resource and reserve estimation of the PT Aneka Tambang gold and nickel mining operations in Indonesia; and an independent geological assessment of a gold property in Sumatra, Indonesia for a client of BFP Consultants.

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<b>Consulting Geologist</b>	<b>Exploration &amp; Mining Consultants Indonesia &amp; WA, Australia</b>	<b>01/1997 to 02/1999</b>
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Conducted pit optimisations, resource/reserve estimations, independent evaluation/valuations, project and data management/bureau services for numerous clients throughout Australia, Indonesia and Canada.

I was responsible for setting-up, promoting and managing the newly established Advanced Mining & Exploration Technology (AMET), an independent consulting company in Jakarta, which led to the success of the business and repeat clientele. In this role I also trained personnel in valuation, resource estimation and general computing.

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<b>Consultant Geologist Technical Manager</b>	<b>PT. Snowden IndoAsia, Jakarta, Indonesia</b>	<b>02/1995 to 01/1997</b>
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Conducted pit optimisations, resource/reserve estimations, independent evaluation/valuations, project and data management/bureau services for numerous clients throughout Australia, Indonesia and Canada.

I was responsible for setting-up the Jakarta operations and subsequent promotion and establishment of the consulting direction for Pt Snowden Indoasia. I managed the company's Jakarta operation and trained several personnel in resource estimation, geology and computing.

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<b>Sr Data Management Geologist</b>	<b>The Pelsart Group Jakarta, Indonesia</b>	<b>09/1992 to 02/1995</b>
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I was responsible for computerising and validating all relevant data in Mirah Gold Project of PT Kasongan Bumi Kencana which led to the integrity of data for the Pre-feasibility Study. Ore reserves amounted to 2.9 Mt with a grade of 2.2g Au/t and 51g Ag/t.

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I also initiated the database computerisation of Pelsart's technical library and training Indonesian Geologist's in detailed 1:1,000m geologic mapping and Micromine software.

### PROFESSIONAL QUALIFICATIONS & MEMBERSHIPS

Bachelor of Science Degree in Geology (BSc Geol)

Registered Geologist, Lic. No. 0803, Professional Regulation Commission, the Philippines

Competent Person (JORC) & Qualified Person (NI 43-101)

Fellow, Australasian Institute of Mining & Metallurgy (AusIMM, Australia)

- *Committee Member, Melbourne Branch, 2010-2012 & 2014-2015*
- *Organising Committee, International Mine Management Conference – 2012*

Fellow, Australian Institute of Geoscientist (AIG, Australia)

- *Committee Member, Victoria Branch, 2014*

Member, Geoscience Society of the AusIMM

- *Committee Member, 2014-2016*

Member, Geological Society of Australia (GSA, Australia)

- *Vice Chairman – Victorian Branch (2011-2012)*

Fellow, Society of Economic Geologists (SEG, USA)

Member, Geological Society of America (GSA, USA)

Member, Society of Mining, Metallurgy and Exploration (SME, USA)

Member, Indonesian Geology Association (IAGI, Indonesia)

Member, Malaysian Geological Society (GSM, Malaysia)

Life Member, Philippine Institute of Mining, Metallurgy and Geological Engineers, Baguio Chapter. (PIMMGE, Philippines)

Fellow, Adamson University Geology Alumni Association (AdUGAA, Philippines)

- *Councillor (2013-2014)*
- *Chairman, Awards and Recognition Committee (2009 – Present)*

### INTERESTS

Modern digital photography at an advanced level, hiking, camping, badminton, reading and writing.

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