



# Stella Searston

FAusIMM, MAIG, RM SME

## Professional Summary

*Stella has 35+ years of operations and consulting experience in North and South America, Australia, the Pacific, and Africa for open-pit and underground mines and exploration properties. Her specialties include project and property evaluation; resource development; feasibility study and project management including data room setup; commodity and company reviews; technical reviews, audits, and due diligence; and Technical Reports, Technical Report Summaries and Competent Person's Reports under NI 43 101, S-K 1300, JORC, and SAMREC.*

## Professional Qualifications/Registrations

- Fellow, Australasian Institute of Mining and Metallurgy.
- Corporate Member, Australian Institute of Geoscientists.
- Registered Member, Society for Exploration, Mining and Metallurgy.

## Education

M.Econ.Geol., University of Tasmania, Australia, 1999.

B.Sc., Geology (double major), James Cook University, Australia, 1986.

## Employment History

- Mine Technical Services, Consulting Geologist, current.
- AMEC, Amec Foster Wheeler, Wood Group, Principal Geologist, 2006 to 2017.
- Bateleur Minerals, Principal Geologist, 1999 to 2005.
- Asarco Exploration, Senior Geologist, 1997 to 1998.
- Anaconda Nickel, Senior Geologist, 1995 to 1996.
- Emperor Gold Mines, Senior Geologist, 1994.
- Zambia Consolidated Copper Mines, Geologist/Senior Geologist, 1990 to 1993.
- Contract Geologist, 1987 to 1989.

## Major Committees

- SME Mineral Resources and Mineral Reserves Committee.
- CIM Mineral Resources and Mineral Reserves Committee.

## Experience

### ***Technical Reports, 2006–to date***

Compilation of, reviews of, or assistance in preparation of, the following NI 43-101 Technical Reports (TRs; 2006 to date):

- Ak Sug, Intergeo, Russia: compilation of TR on resource estimate of a copper porphyry property.
- Altar, Peregrine Metals, Argentina: compilation of TR on copper porphyry exploration property.

- Angostura, Greystar Resources, Colombia: compilation of TR on gold property feasibility study (FS).
- Antilla, Panoro Minerals, Peru: review of TR on a mantos-style copper property.
- Antikori, Regulus Resources, Peru: compilation of TR on resource estimate for copper–gold skarn–porphyry deposit.
- Arenal Deeps, Orosur Mining, Uruguay: compilation of TR on feasibility study of underground operations.
- Aripuana, Karmin Exploration, Brazil: review of TR on an advanced-stage polymetallic VMS property proposed for underground and open-pit mining.
- Arizaro–Lindero, Mansfield Minerals, Argentina: compilation of TR on preliminary economic assessment (PEA) of a gold porphyry property.
- Aurora, Guyana Goldfields, Guyana: compilation of TR on mineral resource estimate of a vein-hosted gold property.
- Ayawilca, Tinka Resources, Peru: compilation of TR on PEA of a carbonate replacement deposit; update of TR on updated PEA.
- Azod, Zincore, Peru: compilation of TR on pre-feasibility study (PFS) of a lead-zinc property.
- Barreal Seco, Minera Cielo Azul, Chile: review of TR on exploration property with hematite-chalcopyrite mineralization developed in fault-controlled breccia-chimneys or veins.
- Bisha, Nevsun Resources, Eritrea: compilation of TRs on FS, and two updated mineral resource and mineral reserve estimates, for polymetallic volcanic-hosted massive sulphide (VMS) property.
- Blackwater, New Gold, BC, Canada: compilation of TRs on PEA and FS of an epithermal gold property.
- Blackwater, Artemis Resources, BC, Canada: review of TR on updated FS, epithermal gold property.
- Blue River, Commerce Resources, BC, Canada: compilation of TRs on resource estimates and PEA for tantalum–niobium property.
- Buffer Zone Ekati Mine, Archon Minerals, NWT, Canada: compilation of TRs on two readdressed TRs on Ekati diamond property.
- Camp Caiman, IAMGOLD, French Guiana: compilation of TR on PEA on a gold property.
- Canariaco Norte, Candente Copper, Peru: compilation of TR on PEA on a copper porphyry property.
- Casposo, Intrepid Mines, Argentina: compilation of three TRs (FS, feasibility study update (FSU), and development-stage update) of an epithermal vein gold-silver property.
- Casposo, Troy Resources, Argentina: development-stage update TR compilation on a gold–silver epithermal veins property.
- Cerro Casale, Kinross, Chile: compilation of TRs on PFS and FS on a gold-copper porphyry property.
- Cerro Negro, International Copper Corporation, Chile: compilation of TR on exploration stage porphyry copper target in support of planned initial public offering (IPO).
- Charlotte Bongara, Rio Crystal Zinc, Peru: review of TR update on lead–zinc–silver Mississippi Valley-style exploration property.
- Cielo Azul, Coro Mining, Argentina: review of TR on exploration property that hosts the San Jorge copper-gold porphyry deposits.
- Colnic-Rovina, Carpathian Gold, Romania: review of TRs on two copper–gold porphyry deposits.

- Concumaysa, Zamora Gold, Ecuador: review of TR on a gold skarn exploration property.
- Confidential, Australasia: compilation of three TRs on precious metals deposits.
- Confidential, Africa, Americas and Asia/Pacific: compilation of 12 TRs and multiple updates for precious metals and polymetallic deposits in support of planned IPO.
- Confidential, Americas: compilation of six TRs and multiple updates on precious metals deposits in support of planned IPO.
- Confidential, Americas: compilation of four TRs on precious metals and polymetallic deposits.
- Confidential, Americas and Asia: compilation of eight TRs on precious metals and polymetallic deposits.
- Confidential, Mexico: compilation of four TRs on gold–silver properties.
- Confidential, North America: review of TRs and disclosure documentation on four gold–silver properties.
- Confidential, North America: review of TRs on two gold–silver properties.
- Confidential, North America: compilation of three TRs on a gold–copper property and polymetallic deposit.
- Confidential, Pacific: compilation of TR on gold property.
- Confidential, South America: compilation of TR on gold property, and TR on a polymetallic deposit.
- Confidential, South America: compilation of three TRs on polymetallic operating mines in support of planned IPO.
- Confidential, Russia, Americas: compilation of three TRs on precious metals deposits in Russia and the Americas.
- Confidential, Serbia: compilation of three exploration-stage TRs on industrial mineral deposits.
- Cortez, Barrick, NV, USA: compilation of TR on the Cortez Carlin-style gold operations.
- Cortez, Turquoise Ridge and Carlin, Nevada Gold Mines, NV, USA, compilation of TRs on Carlin-style gold operations.
- Çöpler, Alacer Gold, Turkey: TR review of mineral resource estimates on epithermal property, and review of three TR updates on mineral resources and mineral reserves.
- Copper Flats, Entrée Gold, Mongolia: review of TR on a copper–molybdenum–gold property.
- Cotabambas, Panoro Minerals Ltd., Peru: review of TRs on mineral resource estimate, and PEA of a copper–gold deposit.
- Côte Gold, IAMGOLD, ON, Canada: compilation of TR on FS on intrusion-related gold property.
- Del Toro, First Majestic Silver, Mexico: review of TR on operating silver property.
- Detour Lake, Kirkland Lake Gold, ON, Canada: compilation of TR on operating gold mine; updated of TR.
- Diba-Badiazila, Legend Gold, Mali: review of TR on gold property.
- Donlin Creek, NovaGold, AK, USA: compilation of TRs on feasibility study and two updates for a gold vein-hosted and porphyry property.
- Duluth, Duluth Metals, MN, USA: review of three TRs on updated resource estimates, polymetallic sulphide deposits; compilation of TR on PFS on a polymetallic sulphide property.
- Ekati, Dominion Diamonds, NWT, Canada: review and compilation of TR and four TR updates on diamond property.
- Elenita, Apoquindo Minerals, Chile: review of TR on a copper oxide mantos-type property.
- Eleonore, Newmont, QC, Canada: compilation of multiple TRs on operating gold mine.
- El Quevar, Golden Minerals, Argentina: compilation of TR on mineral resources for a silver epithermal property; compilation of TR on PEA for the same property.

- Eskay Creek, Skeena Resources, BC, Canada: compilation of TR on PEA on polymetallic VMS deposit; review of updated TR on PEA.
- Espino, Explorator Resources: review of TR on a copper oxide mantos-type property.
- Fekola, B2Gold, Mali: review of PEA TR on orogenic-style gold property; compilation of TR on operating mine and subsequent TR updates.
- Fruta del Norte, Lundin Gold, Ecuador: compilation of TR on FS of an epithermal property.
- Gahcho Kué, De Beers, NWT, Canada: review of TR on advanced diamond exploration property.
- Gahcho Kué, Mountain Province Diamonds, NWT, Canada: review of TR on advanced diamond exploration property.
- Galore Creek, NovaGold, BC, Canada: compilation of TR on restatement of mineral resources and PFS of a copper–gold porphyry property.
- Ghanzi, Hana Mining, Botswana: review and compilation of TR on copper–silver property.
- Gibellini, Rocky Mountain Resources, NV, USA: compilation of TR on mineral resource estimate and FS of a vanadium property.
- Gibellini, Prophecy Development Corp, NV, USA: compilation of TR on mineral resource estimate update on a vanadium property; updated TR on mineral resource estimate, and compilation of PEA and TR on PEA for the same property.
- Gibellini, Silver Elephant, NV, USA: compilation of TR on PEA for the same property.
- GK Project, Artemis Gold, BC, Canada: review of TR on exploration stage property with potential to host epigenetic vein copper–gold mineralization.
- Goldfield, Waterton Resources, NV, USA: review of TR on FS on epithermal gold property.
- Gramalote, B2Gold, Colombia: compilation of PEA on structurally-controlled gold deposit; compilation of TR on results of FS on same property.
- Grande Cache Coal, AB, Canada: review of TR on coal property.
- Greenhills, Teck, BC, Canada: compilation of TR on coal property.
- Greens Creek, Hecla, AK, Canada: compilation of TR on polymetallic property.
- Guanaco, Minera Guanaco, Chile: compilation of TR on FS, and five updates to TR and JORC report, on a high-sulphidation epithermal gold property.
- Gurupi, Jaguar Mining, Brazil: compilation of TR on PFS of a mesothermal vein-style gold property.
- Hackett River, Sabina Silver, BC, Canada: compilation of TR on PEA of a polymetallic VMS property.
- Hopes Advance, Oceanic Iron, QC, Canada: review of TR on iron deposits.
- Hudvam and Wim, Murgor Resources, MB, Canada: review of TRs on two copper–zinc–gold–silver VMS deposits.
- Johnny Lee, Tintina Resources, MT, USA: review of TR contribution on underground mining for gold property.
- Kalakundi, Africo Resources, Congo: compilation of TR on update of mineral resource estimate for an oxide copper property.
- Kalgoorlie, Placer Dome, Australia: compilation of TR on operating gold vein-style property.
- Kamao–Kakula, Ivanplats, Democratic Republic of Congo: compilation and reviews of eight TRs on mineral resource estimate update TRs, compilation of geology and resource content for six TRs on PEA and PFS.
- Kisanfu, Democratic Republic of Congo, review of TR on oxide copper deposit.

- Kitsault, Avanti Mining, BC, Canada: compilation of TRs on FS and three FSU, and compilation of TR on PFS on a molybdenum porphyry property.
- Lac de Gras, Peregrine Diamonds Ltd, NWT, Canada: review of TR on diamond property.
- Lac de Gras, Thelon Diamonds Ltd, NWT, Canada: review of TR on diamond property.
- La Encantada, First Majestic, Mexico: review of TR on operating silver mine.
- La Golda, Exploraciones Orion, Peru: compilation of TR on exploration-stage high-sulphidation gold deposit.
- La Plata, Coastport Capital, Ecuador: Update of earlier study of a gold–silver VMS deposit, and review of preparation of a TR.
- Las Chispas, SilverCrest Metals, Mexico: review of TR on epithermal silver deposit.
- Licancabur, Chile: review of TRs on exploration-stage copper properties.
- Lidia, Exploraciones Orion, Peru: review of draft TR on exploration-stage gold property.
- Lobo Marte, Kinross, Chile: compilation of two TRs (PFS and expansion study) on a gold–copper porphyry property.
- Lookout Hill, Entrée Gold, Mongolia: compilation of TR on exploration-stage copper–gold porphyry property.
- Los Helados, NGEEx Resources, Chile: compilation of PEA TR on copper–gold porphyry deposit.
- Los Helados and Josemaria, NGEEx Resources, Chile: compilation of PEA TR on copper–gold porphyry deposits
- Madrugador, Apoquindo Minerals, Chile: review of TR on a copper oxide mantos-type exploration property.
- Mantoverde, Mantos Copper, Chile: review of TR compilation on copper porphyry deposit.
- Masbate, B2Gold, Philippines: compilation of TR on operating epithermal gold mine.
- Maturi, Birch Lake, and Spruce Road, Duluth Metals, MN, USA: review of TR on polymetallic ultramafic intrusion-hosted deposits.
- Media Luna, Torex Resources, Mexico: compilation of TRs on resource estimate and PEA of a polymetallic skarn property.
- Mesaba, Teck, MN: compilation of TRs on nickel property.
- Michelin, Fronteer Development, NL, Canada: compilation of TR on resource estimate of a vein-hosted uranium property.
- Mineral Park, Waterton Resources, NV, USA: review of TR on FS on epithermal gold property.
- Mineral Ridge, Scorpio Gold Corp., NV, USA: compilation of TR on FSU on gold property.
- Mineral Ridge, Titan Resources., NV, USA: compilation of TR on same gold property.
- Moose River, Atlantic Gold, NS, Canada: compilation of FS-level TR on turbidite-hosted gold properties; update compilation TR to include additional satellite deposits at PFS level; update compilation TR to include operations and updated PFS.
- Morelos, Gleichen Resources, Mexico: compilation of initial TR on resource estimate of a polymetallic skarn property.
- Morelos, Torex Resources, Mexico: two update TR compilations on resource estimates, review of TRs on PFS and FS of a polymetallic skarn property.
- Northern and Southern Complexes, Sigma Lithium, Brazil: compilation of TR on resource estimate, review of TRs based on PFS and FS studies for lithium deposits.
- Northumberland, Fronteer Development, NV, USA: compilation of TR on draft resource estimate for a Carlin-type gold-silver property.
- Ollachea, Minera IRL, Peru, review of TR on a mesothermal gold property.
- Omai, Mahdia Gold, Guyana: review of TR on shear-hosted gold property.

- Otjikoto, B2Gold, Namibia: compilation of TR on operating shear-hosted gold property.
- Oyu Tolgoi, Ivanhoe Mines, Mongolia: review of three TRs on resources estimates of a gold–copper porphyry property.
- Oyu Tolgoi, Entrée Gold, Mongolia: compilation of TR on PEA for a gold–copper porphyry property; compilation of updated TR on operations/PEA.
- Pamour, Porcupine Joint Venture, ON, Canada: review of TR on a narrow-vein gold mining complex.
- Pantanillo, Orosur Mining, Chile: compilation of TR on resource estimate of a gold–copper porphyry property.
- Paris Hills, Rocky Mountain Resources, ID, USA: review of TR on exploration-stage phosphate and vanadium project.
- Penasquito, Newmont, Mexico: compilation of TR on operating mine, gold–silver deposit.
- Platreef, Ivanplats, South Africa: compilation of TRs on five TR updates for platinum group element property resource estimates, review of PEA, PFS, and FS TR resource estimate and geology compilations.
- Pukaqaqa, Tiomin Resources, Peru: review of TR on a copper-gold skarn deposit.
- Quebrada Blanca, Teck, Chile: compilation of multiple TRs on copper porphyry deposit.
- Red Chris, Newcrest, BC, Canada: compilation of TR on PFS and operating mine; copper porphyry deposit
- Reliquias, Sociedad Minera Reliquias, Peru: review of TR on early stage exploration of epithermal silver deposit.
- Renard, Stornoway Diamond, QC, Canada: compilation of TR on resource estimate of a diamond kimberlite property.
- Reward, Waterton Resources, NV, USA: review of TR on FS on epithermal gold property.
- Rook/Arrow, NexGen Resources, SK, Canada: compilation of TR on PFS for uranium property.
- Saddle North/Tatogga, GT Gold, BC, Canada: review of TR on PEA on copper–gold porphyry deposit.
- Sal de Vida, Galaxy Resources, Argentina: compilation of TR on FS for lithium brine property.
- Salobo, Silver Wheaton, Brazil: compilation of TR on operating gold–copper mine.
- San Antonio, Pediment Gold, Mexico: compilation of TR on PEA of a shear zone-related gold property.
- San Dimas, First Majestic, Mexico: review of TR on operating silver mine.
- San José, Minera Andes, Argentina: compilation of TR on PFS of a gold–silver epithermal vein property.
- San Martin, First Majestic Silver, Mexico: review of mineral resource estimate content for TR on operating silver mine.
- Santa Elena, First Majestic, Mexico: review of TR on operating silver mine.
- Santa Rita, Serrote, Appian Capital, Brazil: compilation of TRs on operating mine and FS, on nickel–copper properties;
- Santo Domingo, Capstone, Chile: compilation of TR on FS on iron-oxide copper-gold (IOCG) property; compilation of TR on updated FS; compilation of TR on PEA; updates to TRs.
- Schaft Creek, Teck, BC, Canada: compilation of TR on gold–copper porphyry deposit.
- Serra Verde and Rio Verde, Apoquindo Minerals, Brazil: review of TR on oxide copper–gold deposits.
- Shandong, China Gold Corp, China: compilation of geology and database TR contributions for five shear-zone hosted gold properties.

- Spring Valley, Waterton Resources, NV, USA: review of TR on FS on epithermal gold property.
- Southey, Yancoal, SK, Canada: compilation of FS document into TR format for potash deposit.
- South Mountain, BeMetals, Idaho: compilation of TR on PEA, base metals property.
- Star, Shore Gold, SK, Canada: compilation of TR on resources estimate for a diamond kimberlite property.
- Taguase, Orvana Minerals, Argentina: review of TR on PEA for high-sulfidation epithermal gold deposit.
- Tanlouka, Channel Resources, Burkina Faso: review of TR on mineral resource estimate, shear-zone hosted gold property.
- Thunder Bay North, Magma Metals, ON, Canada: compilation of TRs on resource estimate update and PEA for a polymetallic platinum group element (PGE) property.
- Tucano, Great Panther, Brazil: review of TR on orogenic gold deposit.
- Turnagain, Hard Creek Nickel, BC, Canada: compilation of TR on PEA of an Alaskan-type nickel ultramafic property.
- Vazante, Morro Agudo and Cerro Lindo, Votorantim, Brazil and Peru: compilation of three TRs on lead–zinc–silver sediment-hosted and polymetallic porphyry deposits in support of IPO.
- Wigu Hill, Montero Mining and Exploration, Tanzania: review of TR on a rare-earths property.
- Wonder, American Innovative Minerals, NV, USA: review of TR on epithermal gold property.
- Zafranal, AQM Copper Inc., Peru: review of TR on porphyry copper property.

#### ***Technical Report Summaries, 2019–to date***

Compilation of, reviews of, or assistance in preparation of the following S-K 1300 Technical Report Summaries (TRSs; 2019 to date):

- Confidential, Americas, Asia/Pacific: compilation of five TRS from existing TRs on operating base metal mines.
- Confidential, Americas: compilation of two TRS from company reports on uranium deposits with major studies completed.
- Confidential, Americas: compilation of six TRS from audit reviews and company data on operating mines and major studies; vein-style and porphyry deposits.
- Confidential, Americas/Africa: compilation of three TRS from company reports on exploration-stage projects and deposits with Mineral Resource estimates; vein-style and porphyry deposits.
- Confidential, Americas, Africa, Australasia/Pacific: compilation from first principles of six TRS on operating mines; epithermal and porphyry deposits.
- Confidential, Americas: compilation of four TRS on operating gold–silver mines.
- San Gabriel, Buenaventura, Peru: compilation of TRS from FS on intermediate epithermal deposit.

#### ***Major Report Preparation, 2006–to date***

Compilation of, reviews of, or assistance in preparation of the following (2006 to date):

- Ahafo North, Newmont, Ghana: compilation of stage-gate document, gold property.
- Alacran, Bendito Resources, Mexico: compilation and review of TR on exploration stage epithermal silver–gold property.
- Anaconda, B2Gold, Mali: compilation of permit renewal application, gold property.

- Antamina, Minera Antamina, Peru: reviews of annual resource and reserve update reports for the Main and Usupallares copper–zinc deposits.
- Arctic, Trilogy Metals, Alaska: review of TR on an advanced-stage polymetallic VMS property.
- Arctic, Trilogy Metals, AK, USA: review of TRs on PFS and FS of polymetallic VMS deposit.
- Batu Hijau, Newmont, Indonesia: compilation of audit findings and preparation of report on a copper-gold mine; compilation of due diligence document and mineral expert report for IPO.
- Batu Hijau, PT Bumi Resources, Indonesia: compilation of mineral expert report for IPO.
- Bayovar, CVRD, Peru: geology section of an audit of a phosphate deposit.
- Bear Creek, various countries: compilation and review of due diligence documents.
- Bingham Canyon, Kennecott Copper, UT, USA: compilation of audit findings and preparation of report on a large copper mine.
- Bullfrog North, AngloGold Ashanti: review of selected chapters of FS.
- Capstone, various countries: review of due diligence documents.
- Cerro Lindo, Milpo, Peru: audit of operations, gap analysis
- Cisneros, Antioquia Gold, Colombia: review of TR on operating mine on epithermal deposit.
- Confidential, Africa, Americas and Australia: compilation of audit findings on mineral resource assessments of properties in Africa, Americas and Australia.
- Confidential, Australia: benchmarking study on iron ore deposits.
- Confidential, Burkina Faso: due diligence on a polymetallic project.
- Confidential, Canada: development of mineral resource and mineral reserve templates for gold properties.
- Confidential, Mexico: review of disclosure documentation on silver properties.
- Confidential, North America: review of selected gold and basemetal properties as potential acquisition targets.
- Confidential, North America: benchmarking studies on mineral resource and mineral reserve confidence classifications for supporting major mining studies.
- Confidential, North America: resource and reserve audit of operating gold mines.
- Confidential, North America: resource and reserve audit of operating gold and silver mines.
- Confidential, South America: geology and resource sections of an audit on a mine-concentrator complex producing lead and zinc.
- Confidential, South America: risk assessment of the resources and exploration potential of previously mined silver–lead–zinc–copper replacement style veins, chimneys, and mantos.
- Confidential, South America: due diligence assessment of a polymetallic project.
- Confidential, USA: review of TR on FS on epithermal gold property.
- CVRD, Brazil: geological sections and additional assistance in audits of resource and reserve estimates of selected iron, manganese, copper, gold, bauxite, nickel, kaolin and potash mines and deposits, in support of filings with the US SEC.
- Detour Lake, Agnico Eagle, ON, Canada: review of TR on operating gold mine.
- Diablillos, Rodinia Lithium, Chile: review of TR content for lithium brine resource.
- El Brocal, Mineral El Brocal, Peru: project description for a mine permit application.
- Elkview, Teck Coal, BC, Canada: compilation of TR on operating coal property; TR update.
- El Limon/Guajes, Torex Resources, Mexico: review of updated resource statement.
- First Majestic Silver, Mexico: review of website disclosure on specified properties for NI 43-101 compliance.
- Florida Canyon Bongara, Minera Corona, Peru: compilation of an underground scoping-level study report on a lead–zinc–silver Mississippi Valley-style exploration property.

- Fording River, Teck Coal, BC, Canada: compilation of TR on operating coal property; TR update.
- Golden Sunlight, Barrick, MT, USA: compilation of feasibility study document, shear-zone hosted gold property.
- Grassy Mountain, Paramount Nevada Gold Corp., OR, USA: review of TR on FS on epithermal gold–silver property.
- Greenhills, Teck Coal, BC, Canada: compilation of TR on operating coal property; TR update.
- Hermosa, Arizona Mining, AZ, USA: compilation of FS document.
- Hughes; Summa Silver Corp., NV, USA: review of TR on epithermal silver property.
- Kamao–Kakula, Ivanplats, Democratic Republic of Congo: review of geology and mineral resource sections of TR on stratiform copper property.
- Kemess South, Northgate Minerals, BC, Canada: review of geology and resource sections of an audit of a porphyry copper deposit.
- La Encantada and Del Toro, First Majestic Resources, Mexico: epithermal silver mining operations NI 43-101 compliance reviews.
- La Fortuna, Xstrata, Chile: Owner’s resource audit of a copper porphyry deposit.
- La Plata, Sultana del Condor Minera S.A., Ecuador: review of updated cost estimate study for a gold property.
- Las Bambas, Xstrata, Peru: audit of drilling programs, data quality, database and resources of the Ferrobamba, Chalcobamba and Sulfobamba copper–molybdenum–gold skarn deposits.
- Las Chispas, Silver Crest Metals Inc., Mexico: review of TR on epithermal silver–gold property.
- Long Canyon, Newmont, NV, USA: compilation of stage-gate document on gold property.
- Lubambe, Lubambe Copper Mine Limited, Zambia: review of multiple resource estimates on Zambian-style copper deposit to meet SAMREC and JORC codes.
- Marimaca, Marimaca Copper Corp., Chile: review of TR compilation on copper porphyry deposit.
- Medinandi, B2Gold, Mali: compilation of permit renewal application, gold property.
- Merian, Newmont, Suriname: compilation of Competent Person’s report, gold property.
- Mesaba, Teck, MN, USA: compilation of resource report on polymetallic ultramafic intrusion-hosted deposit.
- Mina Justa, Marcobre SA, Peru: review of resource estimate memorandum on IOCG property.
- Minera Tres Valles, Sprott, Chile: review of TR on mine expansion on copper–silver stratabound manto deposit.
- Mineral Ridge, Scorpio Gold, NV, USA: review of report on mine plan, gold property.
- Morelos, Torex Resources, Mexico: review of Mineral Resource estimate contribution to TR for NI 43-101 compliance, gold property.
- Oposura, Bendito Resources, Mexico: compilation and review of TR on exploration stage polymetallic property.
- Oyu Tolgoi, Ivanhoe Mines, Mongolia: review of TR on the Hugo North copper–molybdenum–gold deposit; review and preparation of geological and mineral resource data for compilation document; review and preparation of geological and mineral resource data for investment documents.
- Palmarejo, Coeur Mining Inc., Mexico: review of TR on operating epithermal silver property.
- Pelusa, Minera Centenario, Chile: draft report on a vein-type copper–gold exploration property.
- Platreef, Ivanplats, South Africa: reviews of mineral resource estimate update reports and PEA on PGM property.
- Porcupine, Goldcorp, ON, Canada: compilation of FS-level open pit mining study, gold property.

- Quechua, Pan Pacific Copper, Peru: audit of the geological interpretation and mineral resources of a copper porphyry property.
- Red Dog, Teck Cominco, AK, USA: review of audit of lead–zinc VMS operation.
- Resolution, Kennecott Copper, USA: compilation of legal, hydrogeological and geological chapters of PFS on copper porphyry property.
- Reward, Waterton, NV, USA: review of FS study on orogenic gold deposit.
- Saddle North, GT Gold Corp, BC, Canada: review of TR on copper–gold porphyry property.
- Silangan, Silangan Mindanao Mining Company: review of report on mineral resource estimate, for a porphyry property.
- South American Mineral Exploration, Chile: review of Competent Person’s reports on exploration properties for AIM listing, copper properties.
- Spremberg-Graustein, KSL, German: mine plan review for a Kupferschiefer-style copper property.
- Subika, Newmont, Ghana: compilation of stage-gate document, for a greenstone-hosted gold property.
- Terronera, Endeavour Silver Corp., Mexico: review of TR on epithermal silver property.
- Touro, Lundin Mining, Spain: PEA review of a Besshi-style VMS property.
- Twin Creeks, Newmont, NV, USA: compilation of audit findings and preparation of report on a gold mine.
- Van Dyke, Desert Fox Metals Inc., AZ, USA: review of metallurgical sections of TR on copper porphyry property.
- Verde, Newmont, Peru: compilation of stage-gate document for a gold–copper property.
- Young-Davidson, Northgate Minerals, ON, Canada: resource model review on a gold property proposed for underground mining.

### ***Short Courses, 2010–to date***

- Presented two-day short courses, in person and on-line on aspects of NI 43-101, JORC, and S-K 1300, including at major conferences, including CIM, SME, AEMA. Upcoming short courses booked on S-K 1300 by SME, February 2023, SME New York branch in May, 2023, and AEMA, December 2023. Upcoming NI 43-101 short course booked by CIM, May, 2023.
- Presented two-day short courses in-house to selected staff at the request of mining and exploration companies. Most recent short-courses on aspects of NI 43-101 presented to major international mining company in October 2022 and on S-K 1300 to another major international mining company in July and October, 2022.
- Panellist on aspects of implementation of Regulation S-K 1300 at major conferences and in-house to attendees at the request of major accounting firms.

### ***Bateleur Minerals, 1999–2005***

- Kalgoorlie, Placer Dome, Australia: Revamped a moribund “controlled document” system, including preparation of technical and user manuals; initiated reviews of knowledge management practices and critical legislation in relation to Mining Act changes; completed first phase of the establishment of a exploration data library; and was responsible for all statutory exploration and mine reporting for open-pit and underground gold properties in the region.
- Government of West Australia, Australia: Evaluated aspects of the status of the mining industry; updated and maintained resource and mineralization databases; compiled the geology of the

Halls Creek/Tanami areas, for use as a mineralization predictor; reviewed corporate reports prior to release to the public domain; collated annual reviews of the exploration/mining industries in WA from 2000–2004; and co-authored a biennial “Industrial Minerals” government publication.

- Xstrata, Australia: Collated an Independent Expert’s report for the vanadium section of the \$2B flotation of this company on the LSE.
- LionOre, Australia: Statutory reporting, evaluation of reporting protocols, and development of checklists and templates for future reports for open-pit and underground nickel properties.
- Vanadium Australia, Australia: Evaluated the worldwide vanadium market, identifying participants, and documenting processing routes, production/operating costs, historic production and price trends. Reviewed the geological models for the mining operation annual audit.
- Newmont, Australia: Historic exploration and mining research of Western Australia’s mines and exploration regions.
- Barrick Gold, Australia: Data manipulation and verification to support drilling programs.
- Argyle Diamond Mines, Australia: Report on formation styles and ages of diamond mineralization and the reliability of age-dating on kimberlitic structures.
- Various, Australia: Researched tin, tantalum and pegmatite plays for a company wishing to undertake a backdoor Australian Securities Exchange listing; researched a number of small gold projects for IPOs; assessed several small gold mining companies for take-over; designed and supervised exploratory and infill diamond and RC drilling programs; completed geological mapping, geological and geotechnical logging; and prepared annual statutory reports, exemption applications and retention licence applications for mining companies.

#### ***Asarco Exploration, 1997–1998***

- Evaluated numerous Australian and international projects for possible acquisition, including assessment of engineering, environmental, operational and geological cost and production factors, adequacy of reserve estimations and resource models, review of exploration, and assessment of geological parameters. Support for international exploration programs in North and South America. Researched and ranked base and precious metals deposits as potential acquisition targets. Managed a remote advanced exploration project including exploration, drilling, logging, mapping, and geological modelling.

#### ***Anaconda Nickel, 1995–1996***

- Murrin Murrin, Australia: Coordinated reserve assessments and geological/resource aspects for a feasibility study of a nickel laterite project. Responsible for all exploration outside the feasibility study area, and for serving as the IT person for staff training.

#### ***Emperor Gold Mines, 1994***

- Emperor, Fiji: Liaised with mill and engineering staff to expedite the transition from advanced exploration to mining, resulting in recommencement of open-pit gold mining after a five-year hiatus. Set up a comprehensive database and library, leading to identification of two new exploration targets, one of which eventually supported a feasibility study. Responsible for mine extension exploration, geological logging, mapping and sampling. Acted as alternate Exploration Manager.

### ***Zambia Consolidated Copper Mines, 1990–1993***

- Provided ground support for international assessment of gold, copper, lead, zinc and nickel exploration and mining opportunities for Central Africa, including re-assessment of the country's Mining Act and recommendations for changes. Evaluated the potential of every major base-metal prospect in Zambia, as well as base-metal occurrences outside the ZCCM mining leases. Established the framework for a database of in-country exploration, mining and rehabilitation work. Drafted major organizational protocols for data management.

### ***Contract Geologist (various companies) 1987–1989***

- Open-pit geological mapping, drill hole and blasthole mapping and sampling, development sampling, production reporting, and in-pit grade control monitoring of coal projects in Australia.
- Direction of large-scale drilling programs within budget and schedule for gold, copper, base metal and polymetallic deposits in Australia.
- Mapping, data compilation, prospect evaluation and statutory body reporting for gold, copper, base metal and polymetallic deposits in Australia.
- Rig sitting, seismic refraction and reflection survey supervision, data interpretation and acquisition for a large coal-bed methane project in Central Queensland.
- Research into Queensland's metallogeny, supporting recruiting of 42 mining and exploration companies to help fund and participate in the research.
- Administration and reporting for the Queensland arm of a large international mining firm on behalf of 31 geologists working on some 60 exploration leases.