

DAVID K. MAKEPEACE, M.Eng., P.Eng.
Senior Geologist

David Makepeace is a Senior Geologist based in the Vancouver office of Micon International Limited. He has over 30 years experience in geology and exploration, mineral property evaluation, project management, and environmental and social management in Canada, the United States, Democratic Republic of Congo, Mali and Zambia. Mr. Makepeace has extensive experience in computer modeling software.

GEOLOGY AND EXPLORATION

Mr. Makepeace has conducted exploration programs in Canada, the western United States and Africa for precious and base metals, uranium and industrial minerals. He has carried out geophysical and geochemical surveys, surface and underground drilling programs, sampling and quality assurance/quality control programs and project management. He has also prepared mineral resource and mineral reserve estimates.

PROPERTY EVALUATIONS

He has completed evaluation of new and old properties and small to large scale mines. Evaluations included: independent National Instrument 43-101 compliant mineral resource and ore reserve estimations (manual and computer), valuation assessment, cash flow analysis, NPV, etc. and detailed development planning, computer modeling, both underground and open pit. He has experience in undertaking or working with consultants to complete scoping studies, prefeasibility and bankable feasibility studies.

PROJECT MANAGEMENT

He has extensive experience in leading and managing technical groups on a variety of projects, chief and senior positions at several mine sites, coordinate and expedite remote site operations, long and short term geologic and mine planning, goal setting, startup and organization of data collection systems (manual and computer), scheduling, and budgeting. He has held senior positions at a number of operating sites where he also provided liaison between company and government agencies.

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MINING

He has extensive experience in hydrothermal vein-type deposits, base and precious metal deposits, uranium mines. Positions he has held include: mine trainee, miner's assistant, sampler, surveyor, trammer, cage tender, assistant shift boss, beat mine geologist, project geologist, senior geologist and chief geologist, director of technical services and temporary COO. His experience includes: forecast planning, budgeting, scheduling and mineral resource and ore reserve calculations (manual and computer) in all phases of exploration, development and production, prefeasibility, and feasibility studies.

MINE ENGINEERING

He has surface (chain and compass, chain and transit (theodolite), profile and cross-section leveling, stadia, plane tabling and EDM traverses, post differentially corrected GPS (Trimble GeoExplorer II, Garmin) and underground surveying, underground mine development planning/design (portal infrastructure, drift, ore-waste pass, drill stations, stope and ventilation design), scheduling, ventilation surveys, etc.

GEOPHYSICS

He has experience using instruments including: magnetometers, electromagnetic (VLF, VLEM-HLEM), SP radiometric (Track-etch, discreting scintillometers, radon-helium gas, radium counters); down-the-hole geophysical instruments used include: radiometric (gamma, gamma-gamma, neutron-neutron), seismic, SP, resistivity, micro-resistivity, microwave, dipmeter, sidewall coring in both mineral and oil exploration, GasTech hydrocarbon analyzer.

GEOCHEMISTRY

Mr. Makepeace has completed surveys ranging from reconnaissance to close-spaced grids and contour grids; sampling types include: rock (grab, channel, grid, bulk, core); soil (profile, selective horizon), groundwater and stream sediment; experience with most analytical techniques; experience with Au, Ag, As, U, Ra, Cu, Pb, Zn, Mo, W, PGM, Mg, Co, Hg, BTEX, TPH, PCB's, phenols, glycols; experience in several computer geochemical and groundwater models.

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METALLURGY

He has experience in plant and infrastructure layout, design and construction, operation of SX/EW and EM/EW electrowinning plants for copper and cobalt in the DRC and Zambia, crushing and grinding circuits, flotation circuits, analytical analysis and metallurgical balances and neutralization and tailings disposal.

ENVIRONMENTAL AND SOCIAL ISSUES

Mr. Makepeace has experience in environmental impact assessments, baseline studies, environmental site assessments and audits and occupational health and safety audits. He has worked in social development programs in the Democratic Republic of Congo and Zambia and conducted First Nations and stakeholder consultations in Canada. His broad experience also includes aerial photo interpretation surveys, reclamation of exploration and mine sites, wetland remediation and mine closure plans.

PRIOR EXPERIENCE

1999-2009: Geospectrum Engineering (principal)

1997-1999: Weymin Mining Corporation, Chief Geologist and Environmental Engineer

1996-1997: Consultant to United Keno Hill Mines Ltd.

1995-1996: Airdrie Resources Ltd., Chief Geologist, Mali, West Africa

1994-1995: Bel-MK Engineering (formerly Bromley Engineering Ltd.), Environmental Engineer

1989-1991: ABM Gold Corp., Senior Geologist

1983-1989: Dickenson Mines Ltd., Exploration Geologist/Chief Geologist/Engineer

1980-1982: United Keno Hill Mines, Mine Geologist

1979-1980: Schlumberger of Canada Ltd., Field Engineer

1974-1978: Contract Exploration Geologist/Engineer

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EDUCATION

Hon.B.App.Sc.(Eng.), Queen's University, 1976
Geological engineering, mineral exploration

M.Eng., University of Alberta, 1993
Civil engineering, environmental engineering

PROFESSIONAL AFFILIATIONS

Association of Professional Engineers, Geologists and Geophysicists of Alberta
Association of Professional Engineers and Geoscientists of British Columbia
British Columbia and Yukon Chamber of Mines

PROFESSIONAL DEVELOPMENT

Formal courses in:

MS-DOS and Windows 3.11

MEDSYSTEM mine modeling software
Geographic Information Systems

SURPAC/GEMCOM Vision mine modeling
software

BC Underground Mine Rescue (1988)
Federal Environmental Legislation (CEEA)