



David J. McChesney

Current Position

Principal Engineer

Profession

Mining Engineering

Years' Experience

40+

Education

BS – Mining Engineering,
Michigan Technological University,
Houghton, MI

Professional Registrations

PE – AL, AZ, CO, NC, NV, PA, UT, VA, WV

Affiliations

Society for Mining, Metallurgy, and Exploration, Inc. (SME) – Registered Member

International Society of Explosives Engineers (ISEE)

Tau Beta Pi engineering honor society; membership since 1981

Citizenship

Dual – US and Canada

Summary of Experience

Mr. McChesney performs geologic modelling, reserve calculations, mine and reclamation planning, production timing, and cost computations for active and proposed mine properties both domestically and abroad. His work experience includes coal, precious metals, heavy sands, aggregate, and oil shale projects.

He has:

- > Performed computations for coal reserve and resource reports generated for the U.S. Securities and Exchange Commission, Canadian National Instrument 43-101 Standards for Disclosure of Mineral Projects (NI 43-101) and the Joint Ore Reserves Committee (JORC) code
- > Performed engineering design and cost computations for feasibility studies of surface coal and metal operations
- > Provided daily engineering support for coal and metal operations
- > Successfully applied mining software to predict monthly production volumes, tonnages, and qualities at active mining operations; including geostatistical concepts where appropriate
- > Utilized similar software to sequence mining activity and schedule life-of-mine production for surface coal and precious metal operations
- > Designed reclamation surfaces incorporating geomorphic land shaping based on the GeoFluv approach and Natural Regrade software
- > Prepared budgets and devised strategies to improve productivity and comply with state and federal regulations for mining operations
- > Created and modified blasting plans to incorporate cast blasting and develop procedures to document compliance with regulatory vibration maximum values
- > Performed end-of-mine reclamation and closure cost estimates to comply with the general requirements of Asset Retirement and Environmental Obligations as stipulated in Accounting Standard Codification Topic 410 (ASC 410)
- > Performed economic justifications and look-backs for new equipment purchases
- > Extensive experience using AutoCAD, Carlson Mining, Carlson Natural Regrade, Microsoft Office products, CAT Fleet Production and Cost Analysis (FPC), and programming in Visual Basic Applications
- > Provided technical training in software application

Significant Projects

- > Magallanes Region, Chile: Provided technical and operational assistance during the initial first year of a surface coal mine
- > Western Australia: Designed a proposed open-cut and highwall mine and participated in preparing the surface mining chapter of the associated Definitive Feasibility Study
- > Queensland Australia: Provided technical assistance in evaluating an active mining operation for potential purchase