



Donald W. Arrowsmith

Current Position

Executive Associate /
Principal

Profession

Mining Engineer

Years' Experience

40+

Education

B.S. Mining Engineering,
Queen's University,
Kingston, Ontario

Professional Registrations

Registered Professional
Engineer: KY, IN, and OH

Certified Mine Foreman,
State of Indiana

Certified Mine Manager,
State of Illinois

Affiliations

Society of Mining Engineers

Kentucky Coal Association

Indiana Coal Council

Indiana Coal Mining
Institute

Summary of Experience

Mr. Arrowsmith has a successful record of overcoming complex issues to increase production and decrease costs, all while improving safety records for surface and underground operations. He has managed labor, client, and regulatory relationships with positive outcomes for the mining operation. Mr. Arrowsmith has encouraged and supported a culture of safety and has consistently helped to improve safety records; including twice winning the Sentinels of Safety Award for Small Surface Mines. Safety is of utmost importance. He has participated in and often led mining process improvement projects at various locations. Projects have included, ventilation, ground control, equipment selection and modification, process and procedures, and miner training. He has also conducted due diligence studies that resulted in acquisitions.

Qualifications and Expertise

- > Operations Management
- > Engineering Management
- > Operations Improvement
- > Due Diligence
- > Mine Design
- > Highwall Mining
- > Domestic and International Experience



Professional History

2015 – Present

Associate

Transitional Management Associates, LLC - Evansville, IN

Responsible for mine management advisory services for both surface and underground operations. Brings 40+ years of mine industry experience to operational assessments.

2005 – 2015

General Manager, Triad Mining, LLC President / Chief Operating Officer, Triad Mining, Inc.

Triad Mining, Owensboro, Kentucky

Responsible for all aspects of management of this Indiana coal producer. Triad operates three surface mines and one underground mine producing coal in the highly competitive Illinois Basin region of the U.S. Accomplishments include establishing an improved safety record, including twice winning the Sentinels of Safety Award for Small Surface Mines. At the same time, we increased productivity maintaining profitability in a contracting market. Under his leadership, Triad utilized both surface and underground mining methods, opened a new underground mine, constructed a new preparation plant, refurbished a unit train load-out, and expanded reserves from 17M to 43M tons.

2000 – 2005

Senior Vice President / Director Vice President - Eastern Operations Managing Director - Norwest Mine Consultants Pty Ltd. - Brisbane, Australia

Norwest Corporation, Ashland, Kentucky

Developed the Eastern U.S. operations and served as a Director of one of the largest privately-owned consulting groups serving the resource industry. Assignments included business planning, operation improvement, mine planning, engineering and management activities, due diligence and lender support in surface and underground coal and limestone in the U.S., Canada, Australia, Mexico, England and Brazil.

1998 – 2000

Manager Operations Support

AEI Resources, Inc., Ashland, Kentucky

Provided operations and technical support for highwall mining operations, non-union contract underground mines, and idle or closed properties. Continued in role of Business Development after the acquisition of Zeigler by AEI to continue due diligence work on several potential acquisitions, as well as the design and permitting of a new large West Virginia surface complex planned to incorporate contour, highwall and mountaintop removal methods.



1992 – 1998

President – Heritage Mining Company, West Virginia
Vice President – Marrowbone Development Company, West Virginia
Vice President of Operations – Wolf Creek Collieries, Kentucky
Director of Technical Services, Manager of Technical Services – Old Ben Coal Company, Illinois

Zeigler Coal Holding Company, Fairview Heights, Illinois

Heritage: Heritage was created to expand Zeigler's presence in Central Appalachia. As President, significant work was performed in various stages of several due diligence exercises. Additional responsibilities included planning and preparing for the development of controlled reserves in the Eastern U.S.

Marrowbone: directly responsible for engineering, exploration, environmental, quality control, land and loss control at the 5Mtpy mining complex in West Virginia. Marrowbone utilized both surface and underground mining methods. In addition to these direct responsibilities, there were indirect operational responsibilities

Wolf Creek: While on a short-term assignment in Eastern Kentucky, completed a difficult longwall move, dealt with water inundation, made management changes, and prepared the mine for continued production.

Old Ben: Responsible for all engineering, exploration, environmental, quality control and land functions for five Illinois underground mines, three longwall and two continuous miners, two large dragline mines in Indiana and one underground mine in West Virginia. Also provided operations and engineering support for the evaluation and acquisition of Shell Mining Company.

1986 – 1992

Mine Manager
Engineering Manager – Wabash Mine, Illinois
Supervisor of Engineering – Castle Gate Coal Company, Utah
Supervisor of Engineering – Harco Mine, Illinois
Senior Planning Engineer – Indianapolis Office, Indiana

AMAX Coal Co., Indianapolis, Indiana

Wabash Mine, Illinois: Instrumental in the improvement from 3.0 to 3.8Mtpy, while reducing the workforce and lowering cost. Improved the conveying system, changed from track to rubber tire haulage, evaluated a longwall and a prototype continuous haulage, and was instrumental in the conversion to modified super sections. While serving as the Mine Manager over four super-sections, established new safety records, improved the labor-management working relationship, increased productivity and established new work practices.



Castle Gate Coal Company, Utah: Castle Gate Coal had one mine, which had a longwall and one development unit operating in deep, gassy conditions. Initially dispatched to solve an issue with methane ignitions, spent five months working on ventilation, dust control, ground control, continuous miner foreman training and evaluation of the future potential of the mine and its adjacent reserves.

Harco Mine, Illinois: Harco was a two-unit underground mine in the highwall of an idle surface mine pit in Southern Illinois. Set up the mining plan and procedures for full pillar extraction in shallow cover. At various times, performed the functions of Section Foreman, Shift Foreman, Mine Manager and Superintendent.

Indianapolis Office, Indiana: Involved in several acquisition studies and the planning and construction of the Harco Mine.

1975 – 1986

Project Engineer – Central Engineering, Pittsburgh

Project Engineer – Midwestern Region, Evansville, Indiana

Mine Engineer – Hillsboro Mine, Illinois

Consolidation Coal Co., Pittsburgh, Pennsylvania

Central Engineering, Pittsburgh: Conducted project evaluations and analyses as well as due diligence review on several potential acquisitions, involving surface and underground operations. Worked on ventilation studies and upgrades at several operating mines.

Midwestern Region, Evansville, Indiana: Worked with all the operating mines in Illinois and Ohio, as well as reserves in Indiana and western Kentucky. Involved in the ventilation design and equipment selection for two new longwalls in Ohio, the evaluation of dragline reserves in Ohio and Illinois, litigation with a customer over contract performance, final closure of the Hillsboro mine, and other projects.

Hillsboro Mine, Illinois: Hillsboro Mine was a 2.0Mtpy underground mine that utilized eleven continuous miner sections. Was directly responsible for all engineering functions, all underground blasting, and all construction. Significant projects performed included, major mine plan revisions, short longwall evaluation, fan silencing, conversion to resin bolting, serious accident investigations, and sealing and extinguishing an inaccessible underground fire.