



John T. Boyd Company

Mining and Geological Consultants



Experienced in Over 70 Countries



Since 1943

John T. Boyd Company

an established and proven leader in mining and related consultancy on a worldwide basis.

Professional staff expertise, combined with strategically located offices, provide us the ability to address our client needs in a timely, proactive, and professional manner.



About BOYD

John T. Boyd Company - Mining and Geological Consultants (BOYD), founded in 1943, is one of the largest, privately owned, mining consulting firms exclusively serving the domestic and international coal, base and precious metals, frac sand, aggregates, industrial minerals, and natural gas industries. BOYD's professional staff is comprised of specialists with decades of experience in the principal aspects of the mining and minerals industry: geology, reserves, mining operations (surface and underground mining), geomechanics, coal preparation, mineral processing, financial analysis, valuation, markets, transportation, environmental matters, etc.

The BOYD name is highly respected as an international mining consultant for its mining acumen, quality reporting, and ethical conduct. Our worldwide stature is demonstrated by our work in over 70 countries. Our senior professionals are recognized Competent Persons and have the requisite training, education, and experience to provide advisory services to our clients on an ongoing basis, as demonstrated by our work as Technical Advisors to international governmental agencies and private industry. Our technical reports fulfill the reporting standards of major financial institutions, government agencies and international stock exchanges.

Select projects include:

- Technical advisors for the privatization of the British coal industry.
- Benchmarking studies, geologic mapping, technical improvement plans, safety and mine rescue guidelines for the Government of Colombia.
- Economic development plan of the Red Sea area of Egypt relative to minerals extraction and modernization of mineral concession leasing program.
- Feasibility studies for the Government of Bangladesh concerning the development of coal and building materials mines.
- Technical consultants relative to the first coal IPO in China by Shenhua Coal Group.

BOYD balances the objective of meeting our client needs with realistic and independent reporting. Our senior staff provide unparalleled expert services in complex projects and in domestic and international litigation disputes. As expert witnesses, we provide professional opinions in an understandable and pragmatic manner.

Experience

- Coal
- Metals
- Industrial Minerals
- Aggregates
- Frac Sand
- Natural Gas

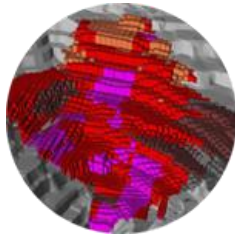


Clients

- Producers
- Consumers
- Government
- Financial
- Legal
- Insurance
- Power/Utility



SERVICES



RESOURCES AND RESERVES

- Field Exploration
- Geologic Modeling
- Resource/Reserve Evaluation
- Technical Reports
- GIS

MINING AND OPERATIONS

- Mine Operational Analysis
- Coal Preparation Operational Analysis
- Mineral Processing Operational Analysis
- Mine Planning
- Strategic Planning
- Geomechanics/Geotechnical
- Competitor Analysis
- Material Handling
- Environmental Audits
- Reclamation and Liabilities

FINANCIAL ANALYSIS

- Valuations
- Bankruptcy/Restructuring
- Insurance
- IPO/Independent Technical Review
- Mergers and Acquisitions

MARKET ANALYSIS

- Product Market and Transportation Studies
- Contract Evaluation
- Fuel Supply
- Commodity Price Forecasting

LITIGATION SUPPORT

- Expert Witness – Domestic and International Disputes
- Technical Experts
- Valuations/Asset Appraisal
- Mine Safety/Accidents/Injuries
- Fires/Explosions/Catastrophic Events
- Product Liability
- Geotechnical/Subsidence/Roof Falls
- Insurance/Business Interruption
- Contractual and Lease Agreements



Locations Worldwide

United States - Canonsburg (Headquarters)

4000 Town Center Blvd., Suite 300 Canonsburg, PA 15317, USA

+1-724-873-4400

jtb-web@jtboyd.com

Ronald Lewis – Managing Director

United States - Denver, Colorado

+1-303-293-8988

jtboydd@jtboyd.com

Ronald Lewis – Managing Director

Colombia - Bogota

+57-3115382113

jtboydcol@jtboyd.com

Carlos Barrera - Managing Director - South America

Australia - Brisbane

Level 11, 388 Queen Street, Brisbane, QLD 4000, Australia

+61-7-3232-5000

jtboydau@jtboyd.com

Ian L. Alexander - Managing Director

China - Beijing

Suite 504, F/5, Sunjoy Mansion, No.6 RiTan Road,

Chaoyang Dist. Beijing 100020, China

+86-10-6500-5854

jtboydcn@jtboyd.com

Jisheng (Jason) Han - Managing Director