

MineScape Geological Database (GDB)

MineScape GDB is designed to store drill hole, blast hole and point data. The application can function equally well at a mine site or corporate office.

Databases can be defined, maintained and accessed on any machine for which TCP/IP access is available. GDB uses Oracle RDBMS, which enables any third-party product such as Microsoft® Excel® to access the database by ODBC connection.

The features

Flexible database structure

Stores drill hole information for any type of deposit. Standard templates are provided for coal and metal deposits and can be modified to suit specific requirements. Standard CoalLog database template is also provided. Multiple projects may be stored in a single database.

Dictionary

Provides standard validation dictionaries that can be modified to support any local requirements. A standard CoalLog dictionary is also provided.

Input data

Includes drill hole collar and downhole survey, detailed downhole lithology logs, geophysical and geotechnical data, sample dispatch advice, coal quality and washability, and assay data. Standard CoalLog file formats are supported.

Data validation

Provides extensive validation tools including numeric range, dictionary code, downhole and stratigraphic and rule checking. Modification of data is checked for interval consistency and validity before being applied.

Audit trail

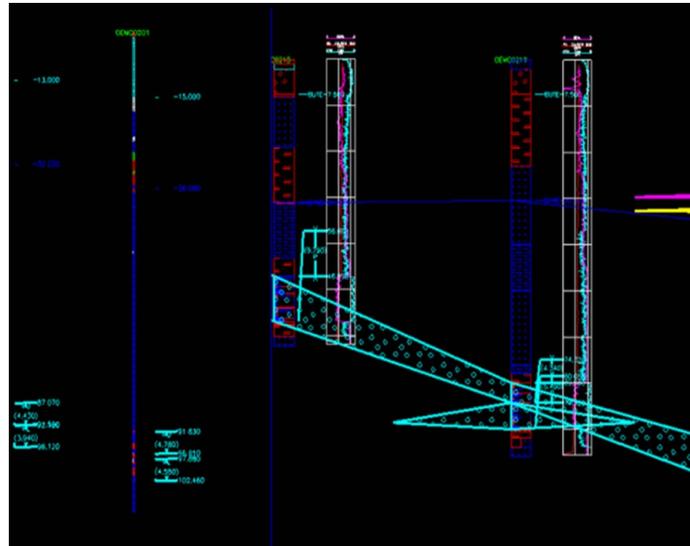
Provides a full audit trail that tracks database changes and edits as required.

Graphical log display

Allows the rapid generation of graphical logs, sections and profiles in either 2D or 3D space.

Graphical correlation

Performs named unit (seam lithology) correlation. Downhole depths are updated graphically using geophysical information either for single or multiple holes in sectional view.



Quality compositing

Allows compositing of ply samples across a geological unit, such as a coal seam or a user-defined working section.

Reporting

Provides a set of standard reporting definitions. For specialized reporting needs, any third-party report writer such as Business Objects can be used.

Integration

Integrates fully with other MineScape plugins, particularly MineScape Stratmodel and Block Model. The drill hole data stored in the database is modeled directly from the database.

3D cross-plots

Simultaneously displays three analytical values. Cross-plot graphics can be analyzed in MineScape, plotted, or transferred to Microsoft Word® or PowerPoint®.

The benefits

Flexibility

Stores any type of data from multiple projects in a single database. The structure is flexible enough to suit any data storage requirements. Standard CoalLog structures are available out of the box.

Data integrity

Validates extensively against dictionaries to ensure the integrity of the database, maintaining uniform corporate and/or statutory standards including CoalLog.

Comprehensive

Stores any type of geological drillhole data in the database.

Data security

Ensures that unauthorized users cannot update the database through an extensive system of user roles, logins and passwords.

Safe and enduring

Validates the database against a code dictionary, and tracks changes to the database including the dictionary and third-party applications. These changes can then be rectified, reinstated or undone.

Powerful visualization

Displays graphical results limitlessly, providing powerful visualization for presentation to anyone from geologist to mine planner to mine manager. Correlation using graphical tools makes the task easier, quicker and more reliable than a numerical equivalent.

Seamless interface

Allows seamless interfacing to other MineScape plugins such as Stratmodel and Block Model, maximizing economic utilization of valuable data and allowing viable mine planning decisions.

Total reporting solution

Caters for the widest range of reporting requirements from simple user reports to full statutory formats of accurate and presentable results.

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Enterprise Software

North America:

+1 678 830 1020

+1 800 868 0497 from US and Canada

Latin America:

contacto.lam@cl.abb.com

Europe, Middle East, Africa:

+44 1483 794080

+33 164 869 910

Asia Pacific:

+61 7 3303 3333

www.abb.com/enterprise-software

info.pges@abb.com

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