

MineScape Stratmodel

MineScape Stratmodel provides a sophisticated working environment where stratigraphic deposits are modeled to represent the local geology.

The geological model is built using user-defined rules and becomes the base for reserves and other mine planning work.

The features

Stratigraphic rules (schemas)

Based on user-defined “elemental stratigraphy.” From these basic units, the most complex stratigraphy, including seam splits and pinchouts, can be progressively defined and updated as deposit knowledge advances.

Modeling parameters

Includes a choice of interpolators and modeling parameters such as search radius and seam thickness parameters.

Drill holes

Stores and displays drill holes as graphical 3D objects or optionally accesses them directly from the MineScape Geological Database (GDB). A range of graphical and non-graphical functions allows editing and manipulation of the drill hole data. Drill holes can be vertical or inclined. An direct link to the GDB plugin is provided.

Structural data

Models normal and reverse faults. Faults are stored as graphical 3D objects and are supported by graphical functions to assist in the interpretation and positioning of the faults.

Geologic interpretation

Controls the occurrence of crop holes and holes not drilled deep enough on a hole-by-hole basis.

Burn and washout

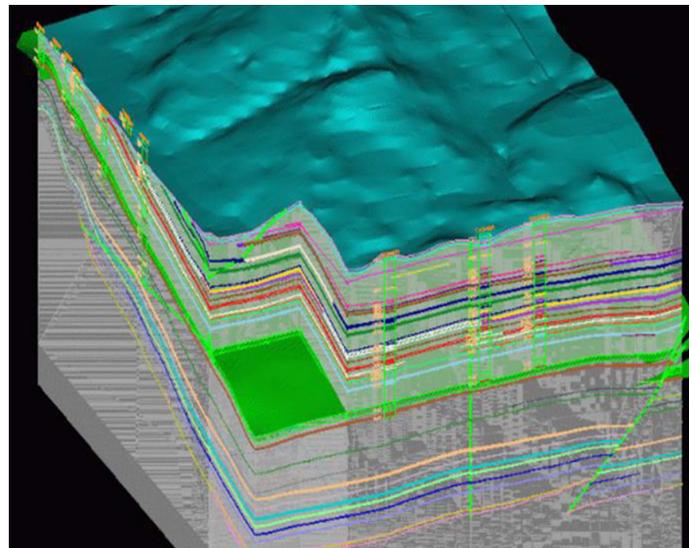
Designates interpreted areas on non-occurrence.

Minesite data

In addition to drill holes, the model can use production survey information and digital terrain models to ensure the model is always up to date with production.

Data validation

Displays borehole data versus modeled horizons and includes reporting tools for model accuracy.



Modeling

Incorporates an automated process, enabling you to produce results quickly and efficiently. Modeling rules are stored permanently, so the addition of new data makes remodeling merely a push-button process.

Graphical output

Stores sections, contour and shaded maps in CAD in real-world coordinates. Output is stored in the same context as input data so the model can be directly compared to the source data.

Quality/washability

Interpolates quality or grade information into geological or mining units to produce a complete deposit model. Such information can be in situ assays, simulated product assays or “process assay” tables. Product values for different processing options, including coal washability and froth recoveries, can subsequently be determined from these tables. Quality parameters can also be displayed graphically as traces or histograms and contoured.

Reserves

Using the Reserves subsystem, stratigraphic and quality models, as well as any MineScape surface, can be accessed directly. Volumes and reserves are calculated for any mining scenario, including dilution and/or losses. These calculations can be used in other MineScape plugins, such as Schedule.

Import/export

Provides various import/export options for ASCII, table, grid, and graphical data types.

The benefits

Accurate

Provides total control over the number of stratigraphic units (eg, coal seams) and horizons, and their splitting relationships, enabling any stratigraphic deposit to be accurately defined.

Comprehensive

Uses ALL available information, including vertical or inclined drill holes, pit survey, digital terrain data, faults and areas defining washouts. Interpreted control can be superimposed in areas of structural complexity that are not well represented by data.

Easy to use

Enables automatic (one-step) model generation, producing results quickly and efficiently.

Integrated

Integrates with the MineScope Reserves and Quality subsystems and the 3D CAD subsystem.

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