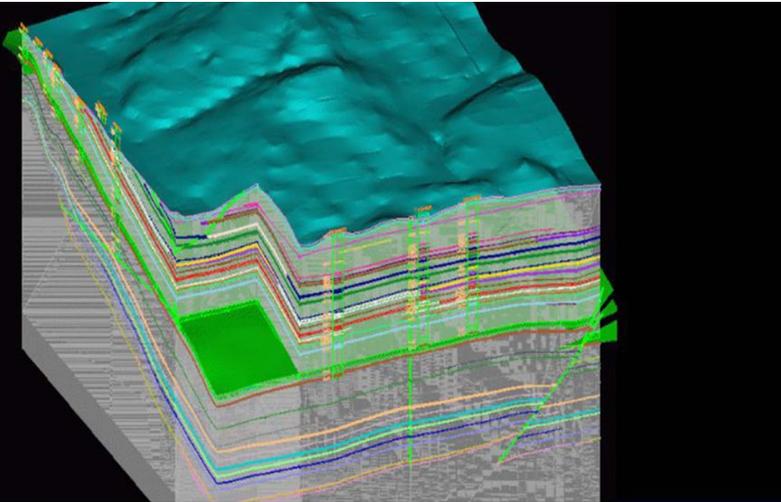—
INTELLIGENT MINING SOLUTIONS

MineScape
Stratmodel

MineScape Stratmodel provides a sophisticated environment where stratigraphic deposits are modeled using user-defined parameters as the basis for resource estimations and other mine planning activities.

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Accurate

Stratmodel has a series of powerful data validation tools so that the modeling geologists always have access to the most reliable data on hand. Users can either include or discard data points that fall in or out of a given set of parameters.

Modeling and resource geologists can define surfaces and intervals in sequential order. From these units, complex components such as seam splits, pinchouts and faults can be progressively defined and updated as knowledge of the deposit develops.

Stratmodel provides geologists with total control over the number of stratigraphic units and horizons, their splitting relationships and their structural boundaries, leading to accurately-defined

stratigraphic models that are truly reflective of reality. Stratmodel also includes reporting tools to assist in validating results generated for better accuracy and an additional step of validation.

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Fast

Stratmodel gives geologists the ability to generate models automatically, in one simple step, producing results quickly and efficiently. Creating models can be an automated process and uses permanently-stored, user-defined rules so that updating the model with new data and remodeling can be batched into an easy one-step process.

Comprehensive

Modeling and resource geologists have the option of accessing boreholes directly from the MineScape Geological Database or importing them as design files both of which store and display as 3D objects.

Similarly, Stratmodel also stores normal and reverse faults as 3D objects, making interpretation of underlying geology and fault positioning a simple, streamlined process. In addition to drill holes, the model can use survey information and digital terrain models to ensure that it is always up to date.

Stratmodel directly accesses all available information and integrates with the reserves and quality sub-systems as well as the 3D CAD system, including all MineScape surfaces, vertical or inclined drill holes, survey data, digital terrain data, faults and washout zones to create a comprehensive, factually-accurate and complete model. In areas that are not well represented by data, Stratmodel can even superimpose inferred controls in areas of structural complexity.

Volumes and reserves are calculated for any mining scenario, including dilution and/or losses. These figures can be used to inform other MineScape components, such as the sophisticated Scheduling plug-in.

Interactive

Graphical and non-graphical tools make editing of boreholes and faults interactive, flexible and easy. The audit trail captures details around last loading, table and grid creation, who made these changes and when, so that these modifications can tracked.

Sections, contours and shaded maps are stored in real-world coordinates and output is stored in the same context as input data, so the model can be directly compared to the source data. This allows geologists to run comparisons between source material and modeled values and report on variations.

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