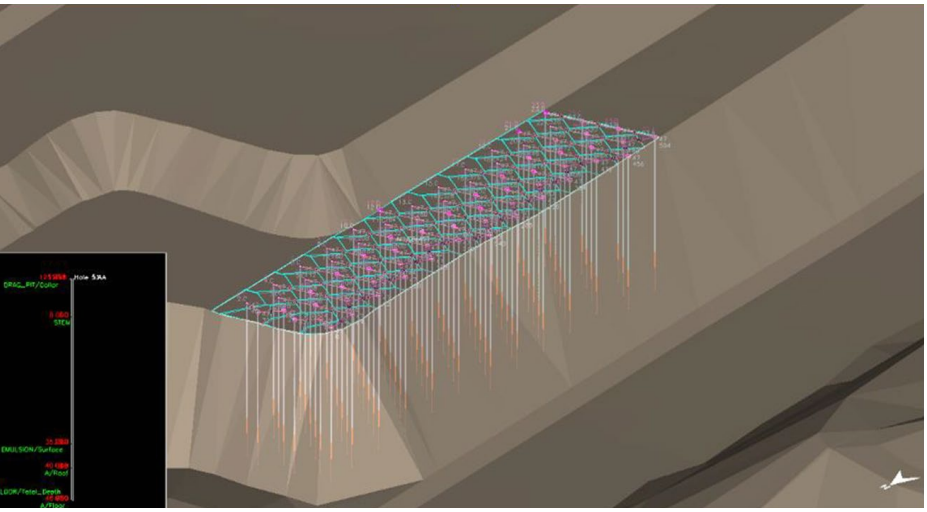
INTELLIGENT MINING SOLUTIONS

MineScape
Drill and Blast



MineScape Drill & Blast provides surface mining drill and blast engineers with an interactive 3D environment in which an optimal blast pattern can be quickly laid out, blast holes projected and charged, blast holes exported for survey, and consumables reported quickly and easily.

Flexible

The MineScape Drill and Blast plug-in provides control over every aspect of blast pattern design using specialized tools along with MineScape's CAD system.

Accurate

MineScape Drill and Blast provides engineers with the capability to quickly test and verify a range of charging and pattern options to determine optimum design, including powder factors and peak particle velocity that complies with the necessary requirements, as well as accurate tracking of all surface and downhole consumables. When required, the actual positions of drilled blast holes can be reloaded directly to the blast from survey and stored to fulfill legal requirements.

The seamless integration between Drill and Blast and MineScape geological modeling plug-ins such as Stratmodel and Block Model ensures that drill and blast designs are built on the most up-to-date geological model and all design parameters from the current pit survey and proposed pit design.

Integrated

With Drill and Blast, mining engineers can create designs from current surveys and mine plans, using the geological model and outputs directly to survey data recorders and on-board drill systems. There is therefore no possibility of errors due to data currency or transcription.

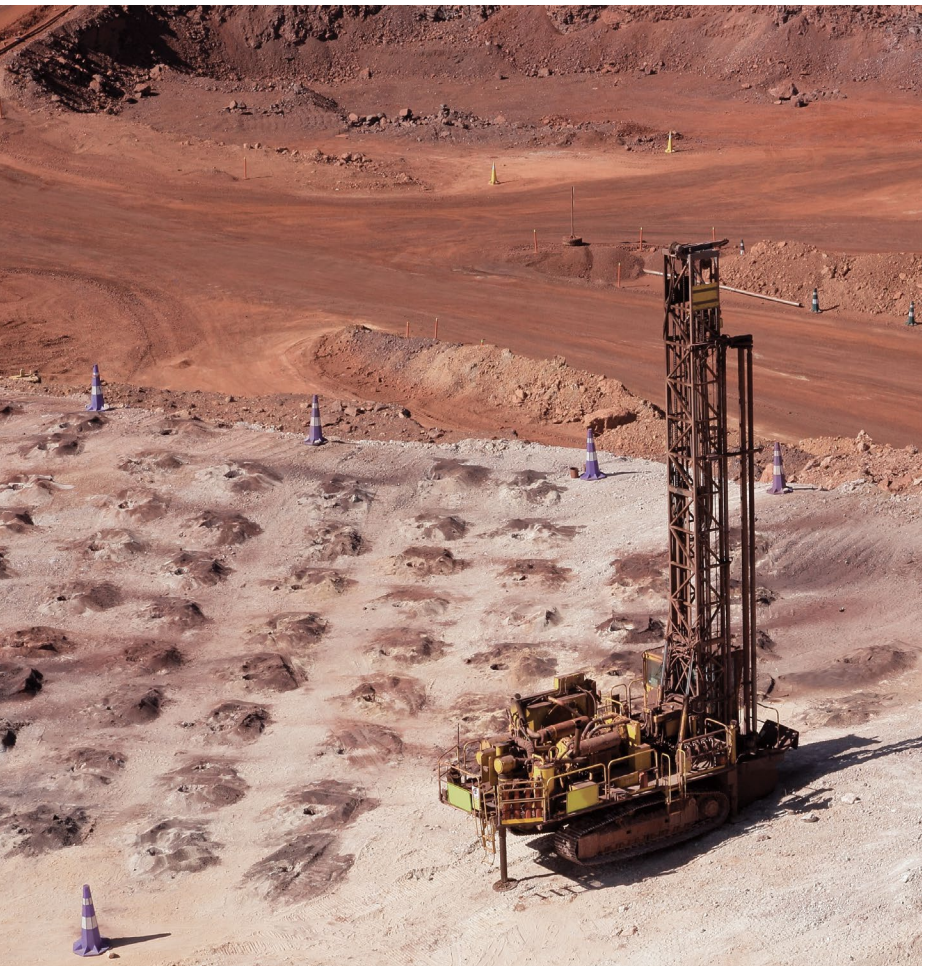
Interactive

Drill patterns can be easily laid out in 2D and the resultant pattern can be modified and fine-tuned using MineScape's CAD and customized functions specifically developed for Drill and Blast. Blast holes can then be projected into 3D utilizing projection rules, including azimuth and declination, where depth limits are determined from geological units, which can include standoff, and the effective blast volume of each blast hole generated.

Users can also insert and modify decking, delays and other named points into the blast holes, both automatically during the hole generation process (from named explosive column definitions) or interactively through the manual charging option. Additionally, users can define and modify initiation sequences, calculate the resultant PPV, generate exclusion zones, create reports detailing sequencing, generate charge sheets, and generate full consumables (surface and downhole) reports. Blast patterns can be produced in survey layout instructions either in plot form or as digital instructions for a field recorder or GPS-based drill monitoring system.

Comprehensive

The Drill and Blast plug-in includes a full range of standard plots and reports, plus the ability to configure site-specific output.



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