

Hydro-Jex® Enhanced Heap Treatment

Increasing Metal Recovery from Heap Leach Operations

Many large mature heap leach pads contain significant metal resources that are an operational challenge to recover. Through the technology behind our Hydro-Jex® Enhanced Heap Treatment, invented and developed by Thom Seal, PhD., President and CEO of **Metal Recovery Solutions, Inc.**, we can now provide the technology and know-how in 3-D leaching to allow heap leach operators to:

- Improve recovery (significantly enhanced Au-Ag oz/foot for each stimulation well)
- Reduce rinsing time and closure expenses

During standard methods of ore placement and leaching on the pad, compaction and channeling occur, leaving dry zones. These dry zones contain valuable inventory that the leaching lixiviant is unable to contact. The application of Hydro-Jex® treatment, utilizing concepts similar to those used in oil and mineral exploration to open up three dimensional pathways in the heap, puts areas of the heap previously missed by surface gravity leaching to be contacted by the lixiviant.

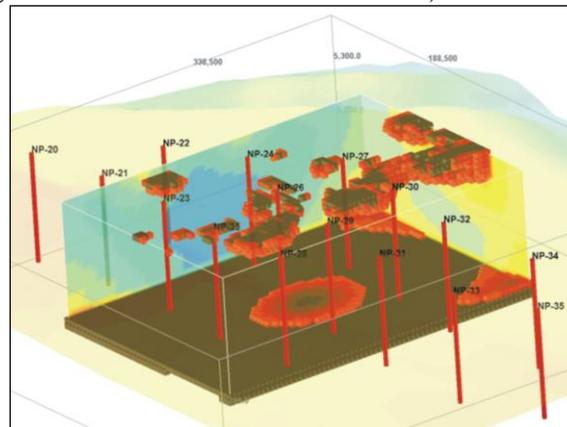


Figure 1 - Dry Zones in Heap

The Hydro-Jex® Enhanced Heap Treatment

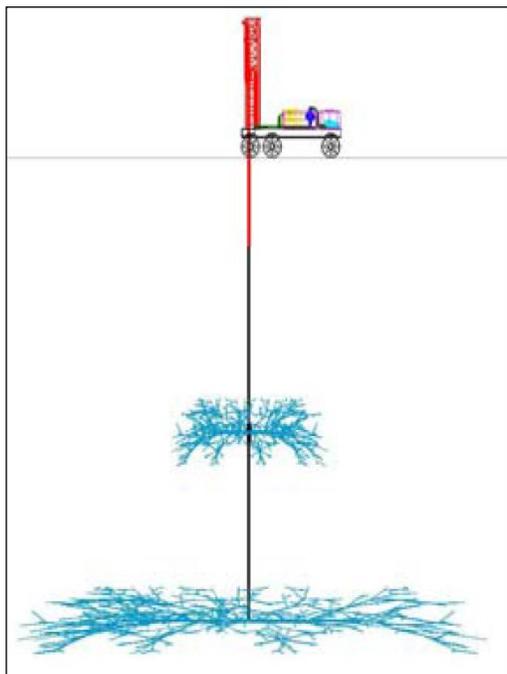


Figure 2 - Hydro-Jex Treatment 3D Model

includes a treatment plan that optimizes solution delivery over time, allowing higher overall metal recovery. In addition, after stimulation during the Hydro-Jex® treatment, the operator can add a variety of reagents to specific zones to repair heap chemistry or pH problems.

In addition, the new channels can make final rinsing more effective and therefore reduce closure time and expenses.



Metal Recovery Solutions, Inc. is based in Nevada and applies proven technologies to the recovery of heap inventory metals. We serve our mining customers throughout the world, through the use of our Hydro-Jex® enhanced metal recovery for 3-D heap treatment, to generate added revenue. We are dedicated to increasing the productivity of operations and bring flexible solutions to optimize results.

For information on Hydro-Jex® please contact:

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