

## **MINING | MDS M515 IN COPPER EXTRACTION**

**A customer in Indonesia started using the MDS M515 in their process to extract copper from rocks.**

They encountered a recurring issue with residual clay in their stockpiles, leading to unfavourable chemical reactions. Conventional methods fell short in delivering clean rocks for processing.

### **The Challenge**

The customer required a solution to completely remove clay from raw feed material, ensuring the rocks were pristine for further processing. Additionally, they needed to efficiently stockpile and treat clean rocks with a sulphate solution as part of the heap leaching process.

### **The Solution**

They invested in the MDS M515, recognizing its potential to effectively tackle clay removal based on its success in overburden applications. The M515 unit exceeded expectations, delivering outstanding results by efficiently eliminating

clay and providing clean rocks in the +100mm (4"+) range.



### **Job Requirements**

- Process raw feed material and totally remove clay and get clean rocks for further processing.
- Stockpile clean rocks and bleach them using sulphate solution.





---

**LOCATION:** INDONESIA

**MACHINE:** MDS M515

**APPLICATION:** COPPER

**THROUGHPUT:** 450-500 TPH, Fuel Efficiency 15 L/hr

**MACHINE SPECS:** Diesel, CAT 4.4 Tier 3 Engine  
Fines 100mm (4") Screens, Mid-Product 300mm (12") Screens

---

The MDS M515 Heavy Duty Trommel can take large feed loads of up to 20T in its massive 12.6m<sup>3</sup> (16.5yd<sup>3</sup>) hopper. This can take up to 800mm (32") size rocks in the feed. The robust feeder and drum system is able to handle very abrasive rocks. The tumbling of rocks inside the drum ensures the clay is removed off the rocks as they hit against the drum walls and against each other. The result is clean







### Key Benefits:

- 1. Breakthrough in Clay Removal:** The MDS M515 effortlessly separated clay from rocks, yielding clean +100-300mm (4-12") and 300-800mm (12-32") products, ready for further processing.
- 2. Enhanced Productivity:** By eliminating clay from stockpiles, Makeda Copper & Gold experienced a significant boost in productivity, streamlining the heap leaching process.
- 3. Handling Extreme Conditions:** The M515 demonstrated remarkable resilience in handling abrasive and oversized feed material, ensuring uninterrupted operations.
- 3. Drastic Increase in Throughput:** With a processing capacity of +450 TPH, the M515 outperformed previous screening processes, significantly improving overall productivity.

### Conclusion:

The use of the MDS M515 improved the customer's copper extraction process, offering a reliable and efficient solution to their clay-related challenges. The cleaner rocks produced directly contributed to a more streamlined and productive heap leaching operation. The heavy duty drum on the MDS unit was able to handle very abrasive feed rocks of up to 800mm (32") and offer continuous operation. The unique cleaning mechanism created the ideal rock stockpiles for the secondary process.