

Derrick® G-Vault® technology outperforms wedge wire screens at Oceana Gold's Haile Gold Mine's CIL circuit

- More reliable performance
- Lower maintenance increases uptime
- Complete CIL Retrofit

Background

The CIL circuit at Oceana Gold's Haile Gold Mine in South Carolina had a long history of wedge wire interstage screens plugging, wearing and leaking on a daily basis. These issues are due to a secondary feed stream being introduced to the circuit in addition to the first CIL tank's discharge. This required the Haile Operations Team to pull and clean the screens daily. In late 2019, two Derrick G-Vault® screens were installed for a 12-week trial and were to be measured for performance, wear and durability.

Solution

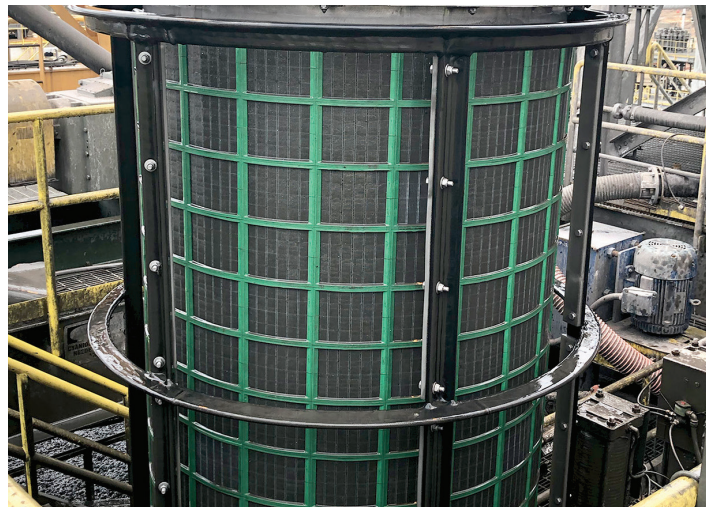
As part of the trial, the G-Vaults operated in contest with the wedge wire screens in the first and last CIL tanks. This gave the Haile operation a unique opportunity to evaluate the screens side-by-side under typical operating conditions. This scope gave Haile a high level of confidence when evaluating the performance, wear and durability of the screens. Under these measures, it was quickly determined that the non-blinding nature of the G-Vault coupled with the decrease in maintenance and downtime was going to be a massive cost saving endeavor. Six weeks into the trial the determination was made to replace all of the wedge wire interstage screens with Derrick G-Vaults.

Conclusion

As a result of the trial, CIL performance increased as there were no shutdowns or diversions. This increase is highlighted by the fact that the screens had not been removed for cleaning or maintenance which allowed operators to focus on other areas of the mill. The Haile operation's retrofit will be complete by August of 2020.



A side-by-side comparison of a wedge wire screen and G-Vault screen after operation.



Derrick's G-Vault after 6 weeks of continuous operation.

For more information, please contact your local Derrick sales representative.

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