

Case History

Drilling Waste Management

Baroid Delivers Value to Cuttings Transfer Operation Using Kraken Pump/Vacuum System

Location: Trading Bay, Kenai, AK

OPERATOR'S CHALLENGE – A customer operating in a remote location of Trading Bay, Kenai, AK was attempting to deliver materials from multiple locations heavily laden with cuttings into a storage pit. Owing to poor accessibility and the high level of backlogged materials that were waiting to be processed, the customer struggled to transfer the cuttings to a CRI system with the screw-sucker pumps already on site. These pumps required the transfer of cuttings to be supplemented with transfers of liquid to help transport the cuttings.

The customer was unable to achieve the desired results in past cuttings transfer operations handled by another CRI company.



Halliburton Baroid's Two-Stage Hammermill unit

HALLIBURTON'S SOLUTION – Halliburton Baroid suggested using the Kraken pump/vacuum system by Triton Industries as a solution to the transfer problem. This system proved to be highly reliable in the transfer operation because it allowed for a short-distance vacuum to move the cuttings to a Kraken-positive displacement pump capable of moving cuttings over 100 ft.

Using this pump/vacuum system, Baroid was able to pull a strong enough suction to vacuum out the solids to the materials hopper and then pump the materials directly to the shaker table (approximately 150 ft) for immediate processing. The system's pumping pressure actually had to be reduced in order to stay inside the pressure limitations of the hoses. Even with the reduction in pumping pressure, the system was able to successfully transfer all materials, ranging from 1-in. rocks to liquid, without fail.

ECONOMIC VALUE CREATED – Baroid was able to provide faster delivery of cuttings to the CRI system, with reliable and repeatable results across a wide variety of materials. The success of this pumping system increased the customer's transfer volume by 50% from what was previously arranged and saved the customer roughly \$10,000 in operational costs per month.

In addition, the customer was able to save on equipment, operators, fuel, maintenance, and potential spill concerns. Environmental risk was also reduced by decreasing the number of times that the cuttings were handled before reaching the unit.

Baroid's solution allowed the customer to benefit from a reduction in the number of days that was required to process their waste and resulted in a large increase in productivity of the CRI system. By providing reliable delivery of cuttings to the unit, injectable slurry increased from 500 B/D to over 1,000 B/D. With the unique feature of a dump tank installed above the shaker table, the system's vacuum could also be used to pull fluids out of storage tanks, as well as tank farm contaminants, including rain water or snowmelt.

To design a unique solution to fit the customer's needs, Baroid worked directly with the manufacturer to develop a trial period that would help reduce risk. By combining the manufacturer's product knowledge with Baroid's CRI expertise, a functional package of equipment never before used in this application was developed and trialed successfully.



Expedited processing helps reduce the time for transportation and environmental concerns