Case Study

High-capacity, intuitive shaker improves performance and safety in Oklahoma

Alpha processes 100% of the drilling fluids at 708 gpm

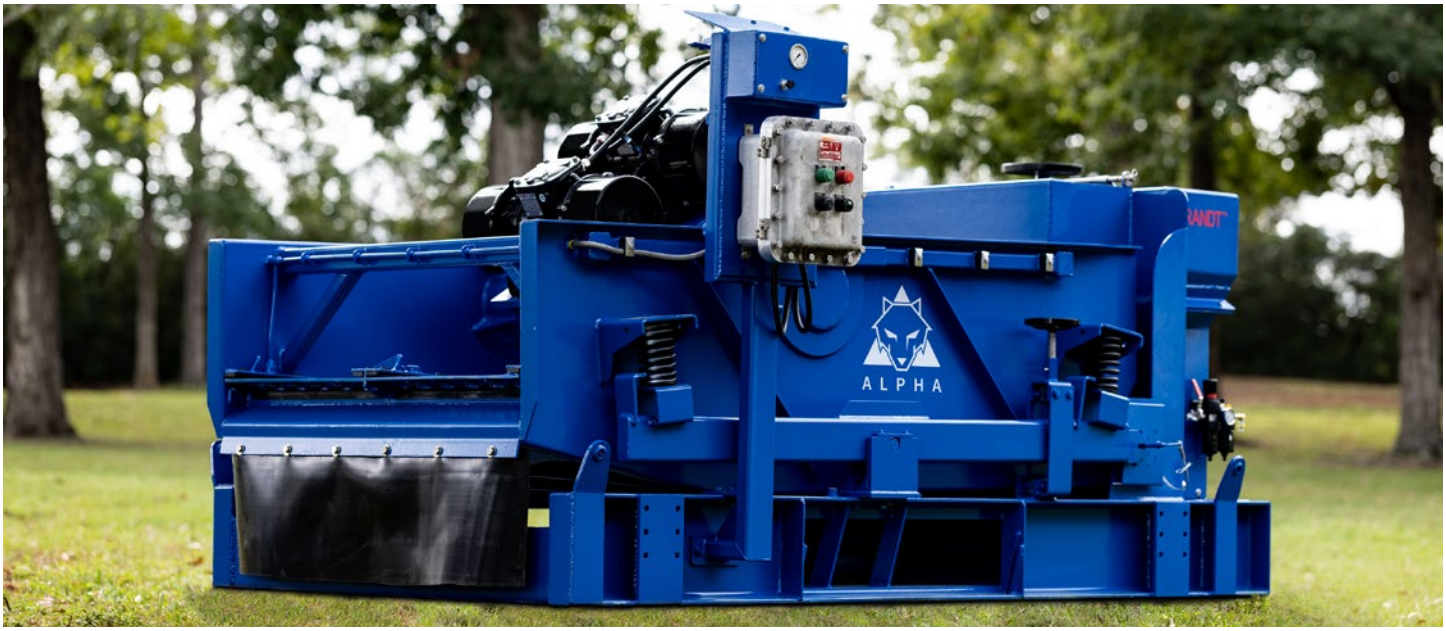
Case study facts

Location: Anadarko Basin, Oklahoma

Customer: Independent drilling company

Results

- Processed 100% of the drilling fluids at 708 gpm
- Lower cost per foot drilled
- 12 to 13% retention on cuttings; while processing 100% circulation rate.
- Change screens in less than 45 seconds



Background

As the industry drills into harder and deeper formations, shakers must handle more drilling fluids faster, safer, and cost effectively, with less environmental impact. Many shakers struggle in the Anadarko Basin in Oklahoma because the heavy clay is very sticky, which results in low throughput. Following an impressive performance in our pilot plant, an independent drilling company tested the new Brandt™ Alpha™ Shaker in the Anadarko Basin.

Solution

Alpha is a high-capacity, single-deck shaker that achieves higher throughput, drier cuttings, and lower cost per foot drilled than the competition. In addition to the high performance, the Alpha Shaker is intuitive and easy to use. Rig personnel no longer have to bend, climb, or reach over the shaker to replace the screens.

At the touch of a button, the pneumatic seals deflate, release the screens from one side, and the equipment operator removes the screen from the front of the shaker. The screens can be safely replaced in less than 45 seconds.

Results

During the max flow test—708 gpm—the Alpha Shaker processed all the drilling fluids with several hundred gallons of spare capacity. While most shakers sacrifice drier cuttings for higher capacities, Alpha alone had the same 12 to 13% retention on cutting as when the fluids were spread amongst the three operating shakers. Retaining more drilling fluids improves efficiency and reduces dilution costs and disposal trips, lowering the carbon footprint and cost of the drilling operation.