

Fas Drill® SVB Packer Provides Isolation for High-Volume Cement Squeeze Job

HIGH PUMP RATES AND FASTER DRILLOUT HELPS MINIMIZE RIG TIME AND COSTS

NEW MEXICO, USA

CHALLENGE

High-volume cement squeeze job under harsh conditions

SOLUTION

Fas Drill® SVB squeeze packer for faster drillout time

RESULT

More than 2,500 barrels of various types of cement slurry were pumped through the Fas Drill® SVB packer at up to six barrels per minute

OVERVIEW

During two-stage cementing of a 9 5/8-inch casing string, an operator in New Mexico experienced lost returns during the first cement stage. Whether caused by a natural fracture in the formation or a high-permeability, low-pressure zone, the operator was now faced with a difficult cement squeeze job to shut off the thief zone and allow cement to reach the surface in accordance with local regulatory requirements.

CHALLENGE

To isolate the thief zone and regain returns to surface, the operator anticipated a difficult squeeze job utilizing multiple cast-iron cement retainers to place the large volume of cement at the necessary pump rates.

SOLUTION

As an alternative solution, Halliburton proposed a 9 5/8-inch Fas Drill® SVB (sliding valve brass) squeeze packer with a mechanical setting tool because of its ability to withstand large volumes of cement with minimal erosion of the valve. In addition, these tools help enable faster drillout times and cause less associated casing damage than cast-iron retainers. Halliburton Cementing designed the slurries to squeeze off the thief zone.



More than **2,500 barrels** of various types of cement slurry were pumped through the Fas Drill® SVB packer at **up to 6 barrels per minute**

RESULTS

The Fas Drill SVB packer was successfully run and set at depth, 50 feet above the perforations. More than 2,500 barrels of various types of cement slurry were pumped through the Fas Drill SVB packer at up to six barrels per minute to squeeze off the thief zone. The packer performed as designed during the pumping operations. After the cement cured, a bond log was run to determine the top of cement and a second set of perforations was created. Using the Fas Drill SVB packer helped the operator save costs associated with valuable rig time, squeeze packer runs and drillout operations, maximizing asset value.

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