



Matrix ASAP™ is a non-shrinking, solids-free epoxy resin that outperforms conventional cement. Matrix ASAP™ has delivered a unique solution to operators over a wide range of applications. Matrix ASAP™ is deployed downhole using remedial cementing techniques.

For further information and case studies please visit us at our website

www.matrixdrillingfluids.com

MATRIX ASAP™

A UNIQUE SOLUTION FOR A PERFORATION LEAK

A Major Operator was conducting a workover in a vertical wellbore located at Fox Creek. Wellbore integrity was a concern, with a nominal leak. Old perforations cemented 10 years ago, would not hold a pressure test. The perforations located at 535 m would accept 25 L/min of fresh water @ 10 MPa.

Well Details

- 8 5/8" Surface casing set @ 304 m
- 5 1/2" Production casing set @ 1935 m
- BHST 20° C
- Wellbore needed to hold 26 MPa at surface

The Solution

Matrix ASAP™ Resin was selected to be squeezed into the interval. Matrix ASAP™ has a compressive strength rating of 81 MPa, and a steel bond rating of 72 MPa. Matrix ASAP™ Resin does not mix with water and once set is chemically resistant. A 500 L resin treatment was programmed with a seven-hour working time. This was to ensure there was time to complete the squeeze and allow the product to remain fluid while injecting into the small leak.

Intervention Details

- Lower bridge plug was set @ 542 m
- Matrix ASAP™ Resin was spotted as a balanced plug
- Tubing was pulled and a Slow-Rate unit tied on
- Squeeze pressure was brought up to 21 MPa on surface
- An estimated 20 - 30 L of product was injected into the perforations

The Result

After allowing Matrix ASAP™ 24 hours to cure, the remaining product was milled through and the well was pressure tested to 26 MPa. Wellbore integrity was achieved and the operator resumed their completion operations.