



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 HZ PACKER LEAK

A Major Operator was attempting a solvent frac in a horizontal well located at Swan Hills. Wellbore integrity was a concern, with a substantial leak off in their 4 ½" Liners Top Packer. Pressure in the well would be brought up to 30 MPa with fresh water, bleeding down to 8 MPa in 10 minutes.

Well Details

- 7" Intermediate casing set @ 2594 m
- 4 ½" Liner top set @ 2543 m
- Formation Pressure 18 MPa
- BHST 102°C
- Fracturing Fluid was 28% Xylene, with a maximum bottom hole pressure of 70 MPa.

The interval was at 90° and required some additional preparation to be repaired.

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 return any excess product to surface.

Intervention Details

- Lower bridge plug was set @ 2550 m
- Upper retainer set @ 2542 m
- Stung into a Retainer and 450 L of resin was squeezed into the interval and down the leak path.

The Result

After allowing Matrix ASAP™ 24 hours to cure, the remaining product was milled through and the well was pressure tested to 33 MPa. Wellbore integrity was achieved and the operator resumed their completion operations.