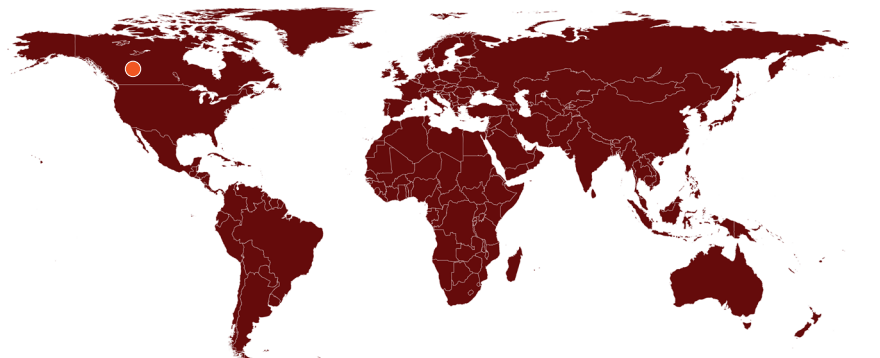


# CASE HISTORY

## Heavy Oil: Zonal Isolation



## Run Smart GFR FREECAP I with two Instrumentation Lines ( $1/2$ in. and $7/16$ in.) for Isolation and Observation

Smart GFR FREECAP I

Location: Alberta, Canada

**CHALLENGE:** Due to anticipated changes in downhole conditions, the customer wanted to run a combo (low temp & high temp) swellable packer that would hold minimal differentials at low temperatures ( $2-7^{\circ}\text{C}$ ) and also at high temperature ( $250^{\circ}\text{C}$ ) for steam injection. The packers were required to continue to hold pressure for 3 years after installation. The subject wells were observation SAGD configuration; two wells with four swellable packers per well.

**SOLUTION:** TAM provided four 5.50 in. x 8.38 in. OD Smart FREECAP I GT packer assemblies in a 3 ft seal length. TAM engineered a unique, quick installation method for continuous control lines into the packer elements. The tools were run to depth and allowed to swell. The swell packers held 2MPa differential applied when dry gas was injected at a cold temperature of  $2^{\circ}\text{C}$ .

**RESULTS AND BENEFIT:** The swellable packers swelled as designed and continue to hold pressure, confirmed by gauges below and above the packers that monitor the well. Installation was simple and efficient, saving rig time and providing a superior seal around continuous control lines.



  
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