

Case Study: ZCor100

Evaporator Blowdown Protection

Summary: SAGD Evaporator Blowdown Disposal Well

Thermal in-situ Oil Sands operators in the Fort McMurray area have high circulation rates creating a scouring effect in the well. Blowdown waters are disposed of in deep, regulatory-approved Class 1a/1b Disposal Wells. At high temperatures and pressures, dissolved salts can form hard scale build-up causing pipe failures and significant operational and environmental issues. Evaporator blowdown purges the dissolved solids with high concentrations of inorganic and organic impurities in the SAGD water to detriment levels.

One of the SAGD operators came to ZEROCOR Tubulars looking for a tubing solution for their Disposal Wells to provide protection against these highly erosive-corrosive environments.

Overview

Disposal Well: 3 1/2" (88.9 mm) J55 Production Tubing with ZCor100

Location: NE of Fort McMurray, Alberta

Deployment: Wabiskaw-McMurray

Product: 7-9 degree API Sunrise Dilbit Blend (SDB)

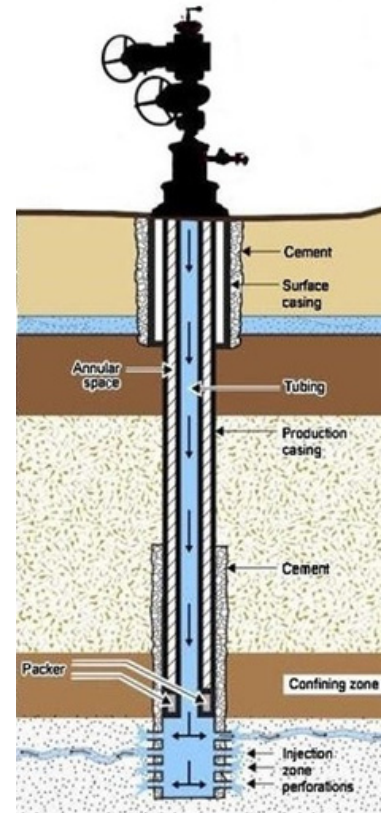
Operator: Large E&P Operator

Objectives

- Provide a long-term economic and environmental benefit to tubing longevity against erosion-corrosion.
- Eliminate SAGD scale build-up and deposits on tubing.
- Reduce interventions into wellbore from tubing failures.
- Reduce operational downtime and unnecessary costs for the need of additional site equipment.
- Reduce employee exposure hours.



ZCor100 Coated Tubing



Results

- Most active well installed with ZCor100, remains in operation since 2010 and going strong.
- Confirms coating to last over 10 years with no failures.
- Longevity of other wells coated with ZCor100 have continued to maintain tubing protection after 5 years, and on-going.
- Reduced 100% tubing failures and downtime by installing ZCor100.
- Cost reduction in OPEX.
- **Provided a Green Solution for the environment.**