



Case History

Fiberspar™ rehabilitates a corroded steel gathering system

CH2053

Location

Slave Lake, Alberta

Product

Fiberspar LinePipe™

Problem

The operator's field at Slave Lake, Alberta, producing since the 1950's, had become unserviceable because of corrosion resulting from high temperatures and high sour-gas content. To return the wells to production and profitability, a new pipeline system was needed. The costs and time required to install a conventional steel pipeline would be magnified exponentially by additional regulatory and right-of-way requirements that would considerably delay the initiation of production. Additionally, the flowing design temperature and high sour-gas content would necessitate injections of corrosion inhibitor and smart pigging that would increase present and long-term maintenance costs notably.

Solution

The operator selected Fiberspar LinePipe as the best option given the economic and regulatory constraints, and the application that comprised a designed flow temperature of 65°C to 70°C and 2,000 ppm H₂S content. Installing Fiberspar LinePipe also would eliminate the regulatory impediments and production delays associated with a new conventional steel pipeline system. Furthermore, since Fiberspar LinePipe does not corrode, maintenance costs would be reduced dramatically over the serviceable life of the pipeline system by elimination of chemical inhibitors, cathodic protection and smart pigging.

Results

The Fiberspar LinePipe arrived from the factory to the location installation-ready. By using its wireline technology, Fiberspar installed over a 12-month period LinePipe in 30 lines, representing a total of 70 km of 2 ½", 3 ½", 4 ½" and 6" pipe. It is estimated that production of about 1,400 BOEPD was resumed from this segment of the on-going rehab project four to six months faster than it would have taken with a new pipeline installation.

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