

SF1015

APPLICATION: water injection
SERVICE CONDITIONS: scaling deposits, saline (<80 ppm chlorides), acids, H₂S, sand and debris

WATERFLOOD BASIN, ALBERTA/SASKATCHEWAN

CASE STUDY #01

DURABILITY IN CORROSIVE CONDITIONS
DURABILITY IN GAS BREAKOUT
EASY INSPECTION AND MAINTENANCE
AVAILABILITY OF CUSTOM SPOOLING

BENEFITS



6X lifespan of the SF1015 vs conventional turbine meters. Norm Glover is the team lead of Facility Engineering and Construction at Enerplus. In 2016, frustration with the short service life of conventional turbine meters led him to seek a solution with Sur-Flo.

Challenge: Gas Breakout

Produced water injection can boost oil recovery from depleted reservoirs. It can also cause gas breakout conditions – the development of large gas pockets along the surface of liquid hydrocarbons. Gas breakouts can wreak havoc with flow meters.

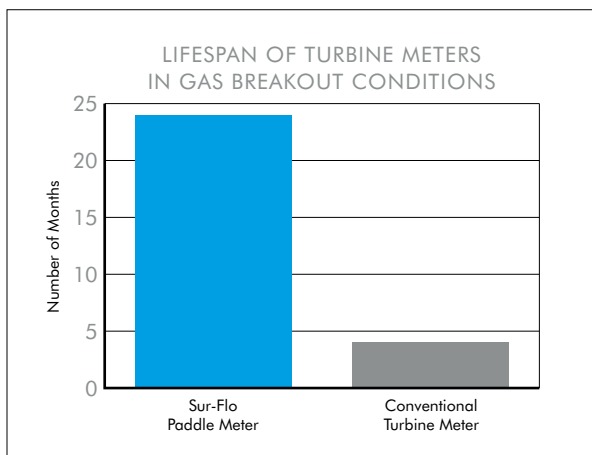
Back in 2016, Enerplus team lead, Norm Glover, was fed up with the performance he was getting from flow meters that couldn't stand up to breakout

conditions and lasted less than four months. "Every time you got an expansive bubble of gas, the turbine on the flow meters spun like crazy, loaded up the axle and blew out the bearing," says Glover. He took a colleague's advice and contacted Sur-Flo.

Sur-Flo Solution:

Sur-Flo's unique paddle meter design is engineered so that wearing parts are out of the direct path of the fluid. This makes the SF1015 incredibly durable,

even in gas breakout situations. Glover says his Sur-Flo meters have lasted up to two years – about six times the lifespan of his conventional meters. Glover also likes that Sur-Flo offers custom spooling options for pump retrofits and design solutions like backer bars to add structural integrity (see photo below). "Anyone that asks, I tell them about Sur-Flo," says Glover. "Anytime we change out meters, we change to Sur-Flo. The word is out."



Norm Glover, Enerplus team lead, says durability and easy maintenance mean the total cost of ownership for Sur-Flo meters is far less than other meters. Glover also likes that Sur-Flo's in-house production facility means product delivery that's far faster than the competition.



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Sur-Flo Meters & Controls Ltd.
4520 - 50 Avenue SE
Calgary, Alberta T2B 3R4

Toll Free 1-877-527-8977
Office 403 207-9715
Fax 403 207-9440

Canadian Inquiries: sales@sur-flo.net
US Inquiries: salesUSA@sur-flo.net

www.sur-flo.net

