HISTORY
In Central Alberta an operator was required to fix a surface casing vent flow leak that was determined to exist at only 9 m from surface. Realizing the potential environmental impact they wanted to ensure that only the safest, most environmentally responsible products were used for the operation.

PROPOSAL
Through Directive 20, the ERCB allows the use of up to a maximum of 1.0 m³ of acid (non-descript in strength and type) to be used. As Enviro-Syn HCR is non-hazardous and several times less toxic than traditional hydrochloric acid it was proposed as a viable, effective alternative should any acid be required.

OPERATIONS
Initial injection feed rates with non-saline water were establish in the area of 15 litres per minute at a pre-set maximum pressure rating. As this was felt to be insufficient for a successful circulation cement operation Enviro-Syn HCR was called upon in an attempt to increase the rate. 1.0 m³ of blended product was delivered to location, and then pumped downhole.

RESULTS
After treating the perforations the feed rate increased to 200 litres per minute at a pressure below the pre-set maximum. A circulation cement squeeze ensued, and successfully shut of the vent flow.

VALUE
The operator was able to order product to location at significantly reduced product delivery logistics. Product could have been made available on-site with the cementing service provider at No Cost should the operator have chosen the option beforehand.

The ability to utilize a product that is environmentally friendly, non-hazardous, non-toxic and 100% biodegradable in nature was seen as an extremely valuable asset considering the proximity of the SCFV leak to surface.