

Sand Slurry Flow Monitoring

Non-Contacting Sensor works from Outside the Pipe

CanFrac Sands Ltd. of Lloydminster Saskatchewan (Canada) needed a flowmeter that could accurately measure sand slurry flow without being damaged by this highly abrasive product. They selected the Greyline DFM 5.0 Doppler Flow Meter with a clamp-on ultrasonic sensor mounted on the outside of a pipe.

CanFrac produce “fracturing sand” used by the oil and gas industry. This special type of sand is pumped into an oil or gas well to help keep fractures between layers of rock propped open to allow hydrocarbons to flow to the wellbore. CanFrac consulted Tarpon Energy Services of Calgary, Alberta for solutions when their inline flowmeters were damaged by the abrasive sand. Tarpon proposed the Greyline DFM 5.0 Doppler Flowmeter.



In this application a mixture of recycled water and frac sand is pumped at 1600 gpm (2 m/sec velocity) through a 10” carbon steel pipe. CanFrac use the flowmeter's digital display to monitor flow rates and take daily readings from the meter's built-in totalizer.

Greyline Doppler Flow Meters and Flow Switches are ideal to measure flow of “difficult” liquids including mining slurries, wastewater and aerated liquids. For complete information visit www.greyline.com.

