

ELECTRIC GLYCOL PUMP

FIELD TEST RESULTS



KIMRAY
INC.®

FIELD TESTS

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Tom Ripper, North Parachute Field Operations Coordinator



ENCANA CORPORATION

Encana is one of North America's largest energy producers with operations throughout Canada as well as subsidiary operations in Colorado, Wyoming, Texas and Louisiana. In May 2011, Kimray provided Encana with an Electric Glycol Pump for a field trial at their operation in Parachute, Colorado in the Piceance Basin – one of the company's key resource plays.

Prior to installation, Encana had operated a competitor's triplex pump that frequently experienced packing issues causing fluid leaks which required regular maintenance and down time. In addition, Encana felt their current pump was becoming more obsolete and operators were looking at a new, more reliable replacement pump.

When Kimray approached Tom Ripper, the North Parachute Field Operations Coordinator, asking if he'd be interested

in participating in the Electric Glycol Pump field trial, he said it was a definite 'yes.'

"I have worked with Kimray for many years so I had confidence in their product," said Mr. Ripper. "From the very beginning, I never doubted the pumps success."

One of the many benefits of Kimray's Electric Glycol Pump is its ease of installation.

"Kimray's Electric Glycol Pump fit right in and required no modifications upon installation," said Mr. Ripper. "We had no issues whatsoever and the whole process took 30 minutes."

Once the pump was installed, the product performed smoothly over the fourteen month field trial. Although the pump is designed to withstand extreme conditions, this particular trial did not

present any major problems. With the exception of one downtime, the pump ran consistently throughout the duration of the fourteen month field trial.

Kimray's Electric Glycol Pump proved to be a smart solution for Encana. Not only has the pump reduced the amount of maintenance issues but it also reduced the amount of greenhouse gas emissions at the wellhead site.

The EV50015 was the first of several sizes of electric pumps designed specifically for use in glycol and amine circulation at natural gas dehydration sites. The Electric Glycol Pump model EV50015 was designed and tested in accordance with Kimray's Design and Development Standard Practice. As a commitment to excellence, Kimray conducted field trials throughout 2011 at seven field locations as well as two laboratory bench tests to assess product design and performance. None of the EV50015 failed in this test.



FIELD TEST SUMMARY

Operator	Location	Pump	Date Pump Installed	Total Months Operated	RPM	Outlet Pressure PSI	Glycol Temp (°F)	Flow (GPM)
Centerpoint Energy	Ozark, Arkansas	EV50015	5/2011	40	1200	203	110°	8.3
CrossTex Energy	Conroe, Texas	EV50015	7/2011	38	1200	640	230°	8.0
Enbridge Inc.	Pampa, Texas	EV50015	5/2011	40	400	1190	NA	2.0
Enbridge Inc.	Wheeler, Texas	EV50015	4/2011	41	1200	1030	NA	7.0
Encana Corp.	Parachute, Colorado	EV50015	4/2011	41	1080	1250	170°	6.1
Enogex LLC	Sweetwater, OK	EV50015	5/2011	40	845	1130	NA	6.3
Enogex LLC	Verden, Oklahoma	EV50015	4/2011	41	1200	940	110°	9.6
Kimray	Lab Stand 16	EV50015	5/2011	40	1200	1480	215°	NA
Kimray	Lab Stand 17	EV50015	5/2011	40	1200	1480	215°	NA

WHO WE ARE

We design and manufacture Oil and Gas control products. Based on 65 years of pioneering product development, we provide products and services that work better, smarter and are more inventive. We generate meaningful solutions that solve problems, we do this by staying curious and engaged in customer's needs to develop products that perform. Our product ideas are fueled by deep desire to make a difference that is both personal and unique to the customer.

We have made it our life's work to provide products and services that positively impact. Through the years this pursuit has built strong relationships, our customers have known that when buying from Kimray, it's about much more than the product. The relationships between Kimray representatives and our customers extend from before the sale through the life of the product. That relationship and Kimray products are the result of a company striving for excellence to positively impact our customers, our company and our community.

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