



CASE STUDY

CUSTOMER

BASIC ENERGY

LOCATION

COLORADO, USA / 2014-2015

EQUIPMENT

COIL TUBING UNIT, BI-DIRECTIONAL HYDRAULIC LINE

APPLICATION

HYDRAULIC FLUID

ROI



NO CARTRIDGE
VALVE FAILURES
FOR 1 YEAR

\$230,400

CHALLENGE

The cartridge valves on the bi-directional hydraulic line of a coil tubing unit have very tight tolerances; the conventional filters were not removing contamination that was causing valve failure every 6-12 hours. After 5 weeks of failures, BASIC Energy decided to test OEI's magnetic filtration capability. The objective was to sufficiently clean the hydraulic fluid and extend the life of the valves to the standard 8-12 months.

SOLUTION

Arthur Fekete, Maintenance Manager for N.O.V. suggested placing OEI magnetic filtration systems on much of their customers' equipment. It was recommended that a bi-directional high flow magnetic y-strainer be installed on the system to increase filtration efficiency and extend the life of the valves.

RESULTS

- » Since installation, there have been no cartridge valve failures.
- » Each valve costs \$480, annual cost savings equate to \$230,400.
- » PM periods have extended to 750 hours, and cleaning intervals have extended to 1 year.
- » Visual analysis of the quantities of wear contamination collected on magnetic filter element can determine component wear.



PRODUCT
RECOMMENDATION
**MAGNETIC FILTER
SCRUBBER**

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