



CASE STUDY

CUSTOMER

HYDRA RIG NOV

LOCATION

CALGARY, AB CANADA / 2012-2014

EQUIPMENT

NEW N2 PUMPER

APPLICATION

NITROGEN FILTRATION

PROVEN
RESULTSDAMAGE
TO SYSTEM
COMPONENTS
PREVENTED

“ The advantages to using this magnetic filtration technology are that it protects the circuit from the particles on startup, and after, and it is providing base level cleanliness to the dirty Nitrogen. Although most cold ends fail due to operating environment, there is still significant damage to components from contamination which increases the opportunity for failure at a cost of \$2,200 per cold end, and the associated downtime.

- Arthur Fekete, Product Specialist, National Oilwell Varco

CHALLENGE

Protect the seals and nitrogen pump from the break-in and inherent contamination.

High levels of ferrous contamination in the nitrogen cause damage to the cold ends and wear the seals of the nitrogen pump on start up. Traditionally, these systems do not have any filtration allowing for wear particles to move freely throughout the system, damaging components.

SOLUTION

Arthur Fekete, Applications Specialist for Hydra Rig, has installed OEI technology on a variety of other applications and determined that it would assist in nitrogen filtration as well. He installed an OEI T-handled magnetic filter element with filtration efficiency down to 4 microns and below.

RESULTS

After only six hours of circulation, a large amount of contamination was drawn from the system. These particles ranged 100+ microns to sub-micron in size. If left in the system, this contamination would have torn through the seals and damaged the cold ends.

NEW
PRODUCT RECOMMENDATION**MAGNETIC FILTER
SCRUBBER**

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