

WellPro.Zs* improves efficiency in well injection operations

CASE STUDY | Hydrocarbon Processing

| Challenge

A large oil producer in the Middle East is expanding production, opening new fields in response to increased demand. The amount of produced water to be filtered and reinjected was increasing rapidly. Melt blown polypropylene filters currently in use were performing, but the life of the filters, produced water throughput, and change-outs were becoming issues. Filter usage and costs were increasing.

| Solution

Veolia and the oil producer conducted a joint, large-scale test of the WellPro.Zs product. WellPro.Zs 10-micron product was evaluated in place of the conventional melt blown product.

Monitoring included:

- TSS reduction
- Turbidity
- Total produced water throughput
- Fluid temperature
- PSID
- Filter integrity

| WellPro.Zs background

WellPro.Zs depth filters provide unmatched performance for the chemical process industries. Z.Plex* technology has been used to create a depth filter, which delivers the lowest total operating cost for the most demanding applications in the chemical process industries. Some of the features and benefits of WellPro.Zs are:

- Z.Plex Filtration Technology
 - High particle holding capacity
 - Low-pressure drop
 - Up to twice the life of conventional absolute filters
- All polypropylene construction for exceptional purity
- High chemical resistance
- Applications over a wide pH range
- High strength polypropylene core

| Results

Produced water throughput increased at several well locations.

- 15% to 37% increase in barrels of produced water filtered per change out
- Improved TSS reduction

WellPro.Zs withstood demanding temperature and pressure conditions of Middle East oil field production. Additional product evaluation is planned.



Veolia Water Technologies

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