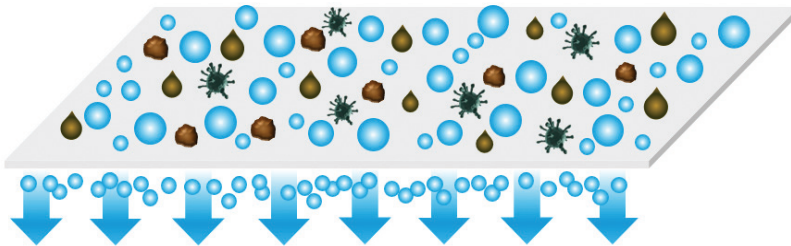




CASE STUDY: PRODUCED WATER TREATMENT

Water scarcity and stricter discharge regulations are critical issues at the forefront of today's oil & gas industry. Fresh water is a critical resource needed for unconventional oil & gas exploration and is an important factor for future growth. In light of ongoing water issues, oil & gas producers have taken on new sustainability goals that place greater emphasis on water conservation and reuse.

iSep™ UF membranes help oil producers achieve their sustainability goals by providing highly effective and cost efficient treatment of produced and flow back waters. The high oil and solids tolerance of iSep membranes enables oil & gas producers to reuse produced and flow back waters, preserving valuable fresh water resources while reducing disposal costs.



iSep UF membranes act as a distinct barrier layer that does not allow oil, suspended solids, or bacteria to pass through. Effluent quality remains the same, even when drastic changes in feed water occur.



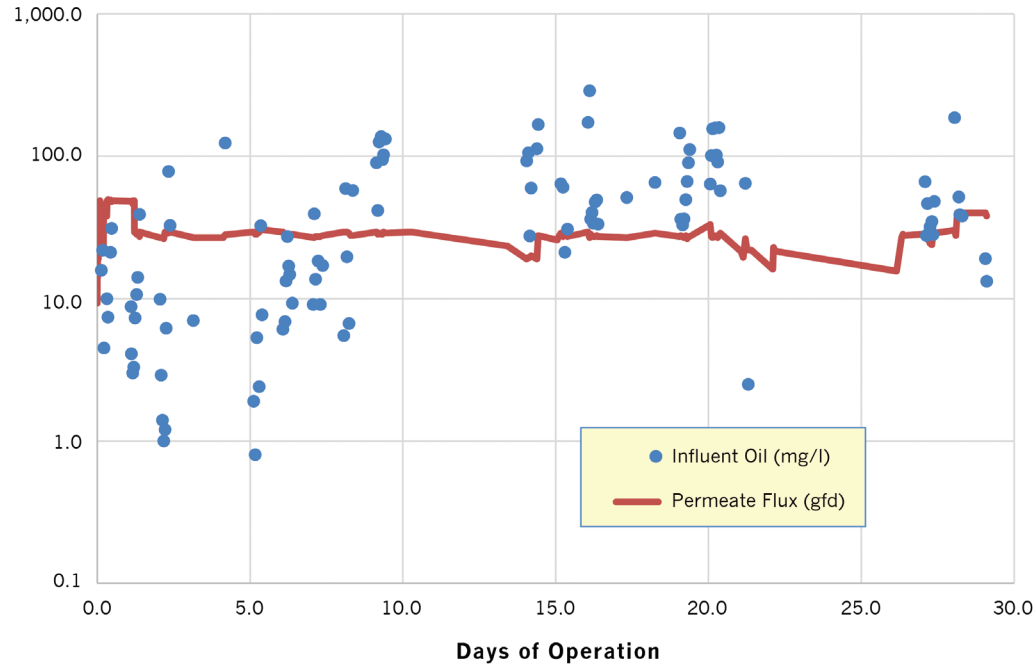
BENEFITS of iSep MEMBRANES

iSep membranes operate directly downstream of primary oil removal steps in produced and flow back water treatment systems. The high quality effluent can be directly reused, discharged, or sent to reverse osmosis (RO) for further treatment.

- + Removes >99% oil, TSS, bacteria
- + Oil compatibility up to 300 mg/l
- + Reduce disposal costs
- + Reduce fresh water use



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Feed Water Capabilities

Oil & Grease	Up to 300 mg/l
Turbidity	Up to 1,000 NTU
Suspended Solids	Up to 1,000 mg/l

Typical Treatment Results

Oil & Grease	<1.0 mg/l
Turbidity	<0.1 NTU
Suspended Solids	<1.0 mg/l
Silt Density Index	<2.0
Bacteria	Non-detect
Power Consumption	<0.01 kW-hr per bbl
Chemical Consumption	<\$0.01 per bbl



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