

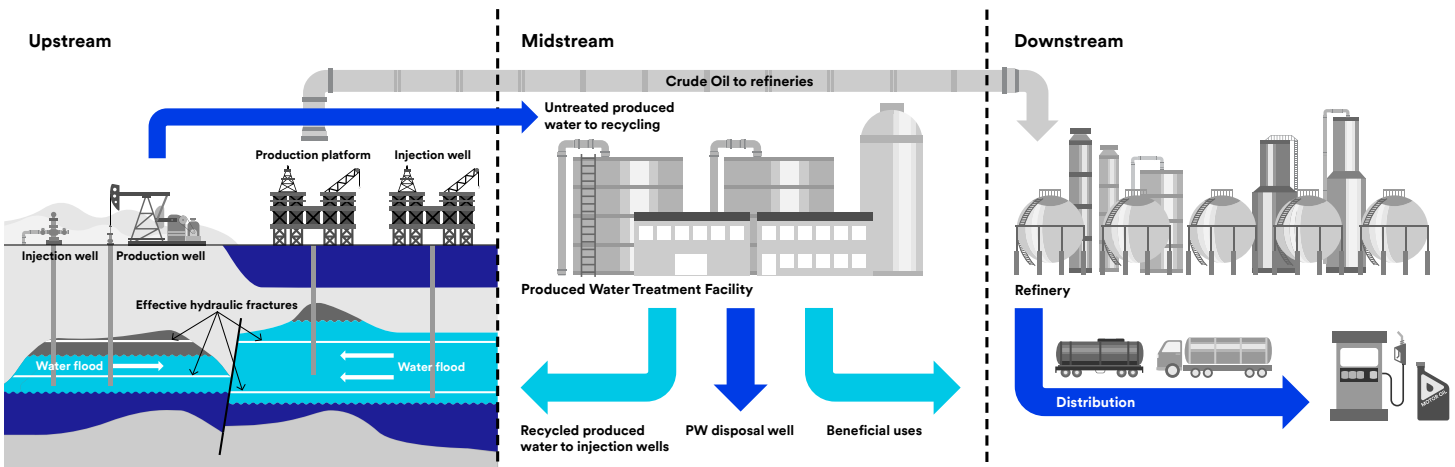
Reinject confidence into your operation.

Solutions for Oil and Gas

Are you treating and recycling upstream and midstream-produced water in your drilling and fracking operations to reduce the need for “fresh” water sources? Are you looking to optimize your off-shore filtration and gas management? How about your amine and final product filtration? For many of these complex oil and gas applications, 3M has a filtration solution that’s right for you.

Process Map

Larger diagram available on page 2



Applications

Particle Control

3M™ High Flow Series Filters

Provides higher flow rates, longer life, better ergonomics and faster change-out times.

3M™ DF Series Filters

Provide added surface area, longer filter life and lower total cost of filtration versus standard bags.

3M™ NB Series Bag Filters

Inside out flow configuration results in capture of contaminants on the inside.

3M™ 500 Series Bag Filters and 3M™ 700 Series Filters

Provide high dirt holding capacity and oil adsorption capabilities ideal for amine filtration.

Gas Control

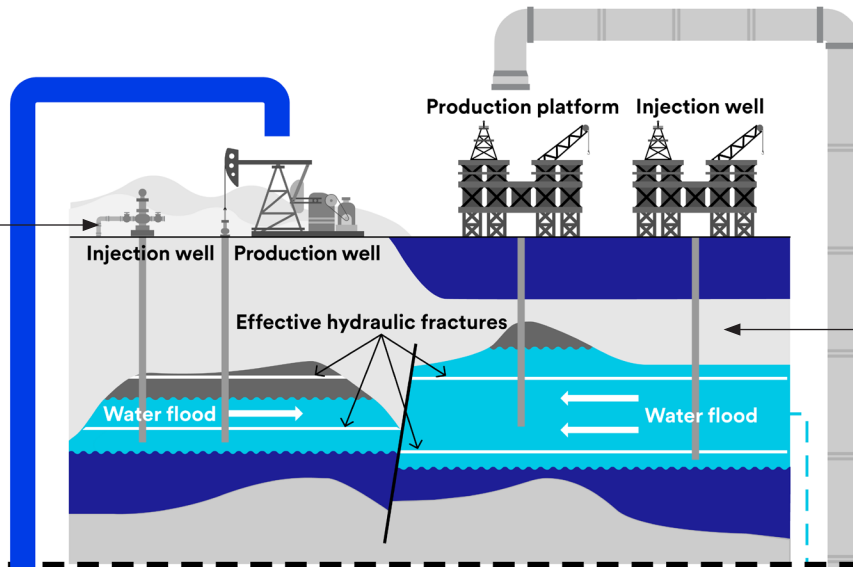
3M™ Liqui-Cel™ Membrane Contactors

Precisely calibrate dissolved gases in water for efficient water pumping at onshore and offshore extraction sites.

Upstream

Onshore Injection Well

3M™ High Flow Cartridges, 3M™ NB Series Bag Filters and 3M™ DF Series Filter Elements at the injection well.



Offshore Injection Well

3M™ High Flow Filter Cartridges and 3M™ Liqui-Cel™ Membrane Contactors work together to remove suspended solids and oxygen from produced water for reinjection or other uses.

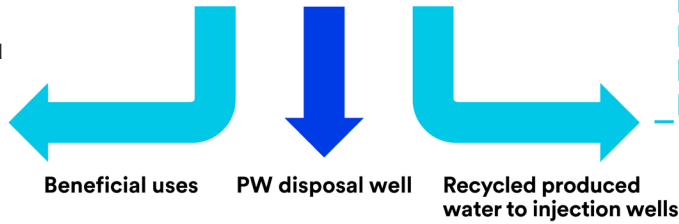
Midstream

Untreated produced water to recycling

Produced Water Recycling

3M™ High Flow Filter Cartridges, 3M™ NB Series Bag Filters and 3M™ DF Series Filter Elements as part of the produced water treatment process.

Produced Water Treatment Facility

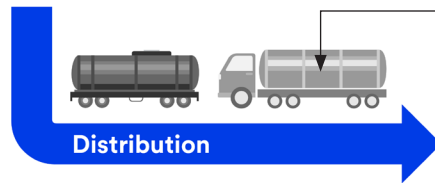
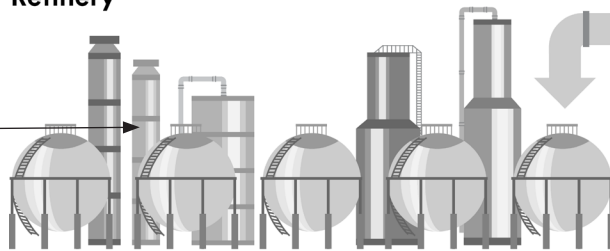


Downstream

Refinery

Amine Sweetening

3M™ High Flow Filter Cartridges, 3M™ 500 Series Bag Filters and 3M™ 700 Series Filters as solutions for amine filtration (removing sour gasses).



End Product Filtration

3M™ High Flow Filter Cartridges, 3M™ NB Series Bag Filters and 3M™ DF Series Filter Elements in the finished oil and gas product filtration along the supply chain.



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