

Implementation of ZGF Spring Filter Saves Deep Well Injection Company Over \$300K Annually

The Most Advanced, Automatic,
Non-Disposable Liquid Filtration System



Oil and Gas



**ZGF EZ Clean EC700S, 5-Pod
Flowback Water for Deep Well Injection**



**Flowrate: 800 gpm
Filtration: 50 micron absolute gap**

Customer Challenge:

4 to 10 barrels of produced / flowback water can be generated to recover 1 barrel of crude oil. This brine must be filtered prior to re-injection to prevent perforation plugging, formation invasion, narrowing of the well bore and well bore fill up. Disposable filter bags and cartridges were used at a great expense, including media costs and disposal. These filters also required significant labor for change out.

ZGF Solution:

ZGF installed an EZ Clean EC700S, 5-pod permanent media, automatic filtration system upstream of the existing bags and cartridges to reduce loading on the disposable media. The EC700S utilizes the innovative and patented ZGF Spring Filter element. The entire system is made from stainless steel. The ZGF technology provides consistent and reliable filtration. It is fully automatic and requires virtually zero maintenance. The system is compact and uses very little energy.

Results:

Prior to installation of the ZGF EC700S, the cartridges and bags were changed 3 to 5 times per day. Since installation of the ZGF EC700S, the cartridges are changed daily, and the bags are changed 1 to 2 times per day.

The reduced labor requirements have allowed engineering and maintenance personnel to focus on more value-added projects, and the reliability benefits are invaluable.

Annual cost savings due to filter cartridges alone are more than \$300K.