HISTORY

A water disposal company in the DJ Basin completed a stimulation treatment on a water injection well in order to increase the injection rate at a facility to sustain demand from the incoming water pipeline. The water injection well was at the maximum injection rate allowable due to pump pressure capabilities.

PROPOSAL

Samples of produced water gathered from the facility were tested for compatibility with Enviro-Syn® HCR-7000® acid alongside the metallurgy of key components within the injection system with no issues observed. It was recommended to treat the wellbore with a 50% Enviro-Syn® HCR-7000®, to remove scale deposits that had deposited downhole, negatively impacting the well’s performance.

OPERATIONS

Concentrated Enviro-Syn® HCR-7000® was delivered to site and slipstream diluted to a 50% concentration with produced water upstream of the charge pump, downstream of the clean water tanks. The injection well rate was reduced to 100 horsepower to achieve a proper mix of water and Enviro-Syn® HCR-7000®.

RESULTS

See attached injection graphs; which include 20 days prior and 20 days after the completion of the acid job. The injection rate average for the 10 days prior to the job was 8581 bbls/day at the maximum pressure rate for the injection pump. The average of the 10 days after the acid job the injection rate increased 24.2% to 10657 bbls/day. The flowline pressure decreased from 1520psi down to 1164psi, allowing the pump hertz to be increased resulting in a higher injection rate. HCR-7000® will not reprecipitate the solubilized scale like HCl at pH levels even up to 7.0 carrying the minerals further into the formation vs leaving NWB like HCl.

VALUE

Increased Injection:

- Disposal company was able to sustain the incoming water pipeline volumes from surrounding wells while greatly reducing the costs associated with past hydrochloric acid jobs while almost eliminating any HSE concerns.

Reduced HSE Exposure

The inherently safe properties of our HCR-Series products eliminated HCl and other hazardous stimulation chemicals from the site, thereby reducing risk to personnel and the environment. Bypassing the need for a pump-down crew and greatly minimising the risk from heavy equipment, high line-pressures and additional personnel onsite.
Recommendations given in this document are based on tests believed to be reliable. However, the use of the information is beyond the control of Fluid Energy Group Ltd. and no guarantee, expressed or implied is made to the results obtained if not used in accordance with directions or established safe practice. The buyer must assume all responsibility, including injury or damage from the misuse of the product as such, or in combination with other materials. All corrosion testing dilution conducted with fresh water. This document is not to be taken as a license to operate under or recommendation to infringe any patent. ©Copyright 2019
**CASE HISTORY**

**Enviro-Syn® HCR Increases Water Injection Rates**

**PUMP SKID SETUP**

- **HCR-7000-110**
- **Diaphragm Pump (23gal/min)**
- **Water From Clean Tanks**
- **Booster Pump**
- **Injection Pump (100HP)**
- **To Well Head**

**CONTACT DETAILS**

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