

## OIL & GAS INDUSTRY

# Quick STUDY

**Hydra-Cell®**  
Seal-less Pumps

[www.Hydra-Cell.com](http://www.Hydra-Cell.com)

|                        |                                                                                                                                                                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location:              | Hungary                                                                                                                                                                                                                                                                                                                                              |
| Application:           | Water injection                                                                                                                                                                                                                                                                                                                                      |
| Media:                 | <ul style="list-style-type: none"><li>• Produced water</li><li>• Methanol</li><li>• Sand</li></ul>                                                                                                                                                                                                                                                   |
| Model No.:             | D35                                                                                                                                                                                                                                                                                                                                                  |
| Flow Rate:             | Up to 35 gpm (132 l/min)                                                                                                                                                                                                                                                                                                                             |
| Pressure:              | Up to 1450 psi (100 bar)                                                                                                                                                                                                                                                                                                                             |
| Hydra-Cell Advantages: | <ul style="list-style-type: none"><li>• Low energy costs</li><li>• Competitive price: the three Hydra-cell pumps together cost less than two traditional metering pump units</li><li>• Ability to handle abrasive solids</li><li>• Compact build and small footprint</li><li>• Smooth low-pulse flow with no need for a pulsation dampener</li></ul> |



## Injection of Produced Water into Gas Well

A technique used in gas well dewatering is the injection of water at pressure to remove the accumulation of water gradually building at the bottom of the well that would otherwise inhibit the flow of natural gas to the surface.

For this high-pressure application, an operator in East Hungary had previously used traditional single-diaphragm metering pumps, and for a new project was also considering piston pumps.

The technical benefits of the Hydra-Cell design and its competitive price, however, resulted in the purchase of two D35 pumps, plus one on standby. The pumps were installed in April 2012 and have been running since that time with no reported problems.

### Characteristics of Fluid Pumped:

☒ Contains Abrasives   ☐ Corrosive   ☒ Solids in Suspension   ☐ High-temp. (>158°F/70°C)   ☒ Non-lubricating   ☐ High-viscosity (>500 cPs)