

Application story



Polymer Injection for Enhanced Oil Recovery (EOR) (7)

Location	Alaska (Installation: 2022)	Hydra-Cell model	WI001159PMPG35-03 custom pump
Type of application	Dosing Polymer Solution @ 0.65% Concentrate	Flow rate	5 m³/h (1320 GPH)
Liquid	Polymer	Pressure	69 Bar (1000 psi)
Application details	Hydra-Cell seal-less high-pressure Diaphragm pumps have been successfully installed for constant duty and integrated into the E7.5M hydration container from . Feedback from the customer: “The complexity of designing process plant modules lies within utilizing the space constraints (in this case 2 x 40ft HC containers). A trade-off is made to fit the optimal amount of equipment into the module, while still allowing sufficient access to the equipment. The engineers and designers at ProProcess are skilled in this, as they have been doing this for the past 10 years. The area available to move around inside the module and design considerations for maintenance access is clearly visible in this photo.” “As the EOR BD Lead at ProProcess I am in a fortunate position to see these projects through from conceptualisation to the commissioned plant leaving our fabrication premises. During conceptualisation I found that the flows and pressures required for this application were such that we could opt for wobble plate positive displacement pumps. These pumps offer a reduced footprint over those of the conventional piston type pumps used in chemical EOR applications. An additional advantage of these pumps is the seal-less design, allowing them to run dry indefinitely, without damage! ProProcess – Innovate-Design-Fabricate.” NOV Reciprocating Plunger Pumps were previously used for this application.		
Advantages of Hydra-Cell pump on this application	• Reduced footprint over those of the conventional piston type pumps • Seal-less design, allowing them to run dry indefinitely, without damage!		

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