

Application story



Gas Drying (3)

Location	Pittsburgh, PA, USA (Spring 2019)	Hydra-Cell model	M03XKSGHFEHG & D10XKSGHFEHB
Type of application	Natural Gas Dehydration Injection	Flow rate	14.4 l/min (3.8 gpm)
Liquid	Tri-Ethylene Glycol (TEG)	Pressure	41 - 62 bar (600 - 900 PSI)
Application details	Range Resources were using gear pumps to pump the hot TEG in their gas drying process. The gear pumps required a special start-up process to ensure there were no problems due to thermal expansion that could cause clearance issues with the gears and premature wear. This was a complex process, or "jogging sequence", to ensure the gear housing and pressure wear plates expanded at similar rates. Due to the complexity of this process it was not often followed, and chemical attack on dynamic seals and packing is accelerated as the liquid temperature increases, resulting in a lot of maintenance. The customer needed a more robust pump suitable for the hot TEG and to achieve a large reduction in maintenance.		
Advantages of Hydra-Cell pump on this application	• With no dynamic seals in the hot TEG, the Hydra-Cell pumps can handle hot liquids reliably. • Hydra-Cell pumps only require minimal service and maintenance.		

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