LIFTING SOLUTIONS

Torque ALLIANCE

Location: Australia | Product Information: Model 20-1200 MN1
Client Information: Major CSG Operator

CHALLENGE

The End-User client, a major Coal Seam Gas (CSG) operator in Australia, was looking for a solution to extend the runlife of their wells. The CSG environment presents unique challenges, including exposure to solids and wear. Additionally, the well required a system that could resist water swell, withstand mechanical stress, prevent tearing and fatigue, and offer high tensile strength.

In collaboration with our Australian distributor partner, Torque Alliance, they turned to Lifting Solutions' technical applications team, who collaborated with them to develop a solution that met their production demands while ensuring reliability in the harsh conditions of a CSG environment.

SOLUTION

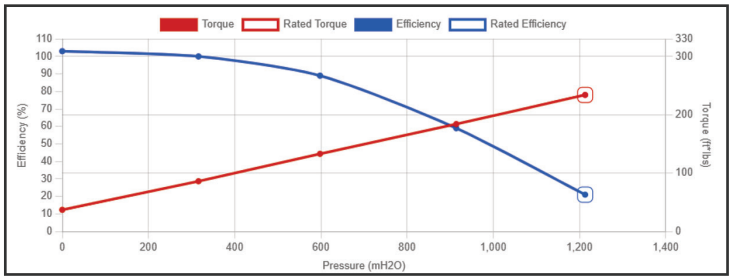
The optimal solution was our Progressing Cavity Pump (PCP) **Model 20–1200**, paired with the Lifting Solutions **MN1 Elastomer**. This combination was ideal based on the well's conditions, production requirements, and the client's goal to extend runlife.

As with every PCP deployment, Lifting Solutions tested the pump on our in-house test bench and shared the performance data with the client to confirm the fit-for-purpose design and elastomer selection.

The MN1 elastomer has undergone rigorous durability testing: 85°C water at 500 rpm, 125% rated lift, for 25 million cycles - aligned with ISO 15136-V1 design validation standards with no measured loss of elastomer properties or bond integrity.

After thorough technical review of the solution, the client proceeded to install the recommended PCP model and elastomer.

PC Pump Test Report



PERFORMANCE

The target was to exceed the well's average runlife of approximately 10 months (0.84 years), while also evaluating performance during solids events and its ability to restart effectively after shutdowns.

The PCP performed exceptionally well—surpassing the previous pump's runlife, the well's average runlife, and even exceeding the longest-running pump previously used in this well.

As at time of publication of this Solution Spotlight, the pump ran for over 2 years—greater than 2x the average runlife!

METRICS

Well Location: Surat Basin, Australia	
Initial Target Rate	200 bpd
Tubing Size	2-3/8"
Casing Size	7"
Type of Well	Directional
Pump Landing Depth	970m KB (606m TVD)
Hole Angle at Pump Landing Depth	61°
Average Pump Run Life	10 months

The deployment of Lifting Solutions' PCP Model 20–1200 with the MN1 Elastomer has proven to be a highly effective solution for our client's Coal Seam Gas well. Not only did it exceed the well's average runlife of ~10 months, but it also outperformed previous pumps in terms of durability and reliability by 2X. The MN1 Elastomer's performance, under rigorous ISO-standard testing, further validated its resilience in challenging conditions.

This success highlights the value of tailored, fit-for-purpose solutions backed by technical expertise and thorough validation to help solve our client's LIFT CHALLENGES.

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