

/ ABSMART SERVICES · BOOSTFLOW™ MULTIPHASE PUMPING

Well unloading in a high-H₂S gas condensate well

01 · SUMMARY

BoostFlow™ multiphase pumping technology was deployed to revive a liquid-loaded gas condensate well with high H₂S content. The unit was mobilised and rigged up within a day. The well was successfully unloaded in 12 hours and production was restored. This demonstrated that surface multiphase boosting can be a fast and effective solution to revive dead wells without downhole intervention.

02 · OBJECTIVE

A gas condensate well experienced severe liquid loading and insufficient wellhead pressure, preventing the well from flowing naturally. Conventional well unloading methods such as coiled-tubing nitrogen lift required complex mobilisation, significant operational time and high intervention costs. The operator required a faster and safer solution to:

- Remove accumulated liquids from the wellbore
- Restore stable production
- Minimise operational footprint and cost
- Avoid complex downhole intervention

03 · SOLUTION

ABSS deployed the BoostFlow™ multiphase pumping system, a surface-based solution designed to reduce wellhead back-pressure and transfer multiphase fluids directly from the well to downstream facilities. The system was rapidly mobilised and installed at surface with minimal infrastructure requirements. Key features of the deployment included:

- Surface multiphase pumping capable of handling up to 100% gas volume fraction
- Reduction of wellhead pressure to re-establish flow conditions
- Continuous transfer of produced fluids into the high-pressure flowline
- Compact and fast deployment suitable for intervention-free operations



FIG. 01 · BOOSTFLOW™ MULTIPHASE PUMPING SOLUTION AT THE WELLSITE

04 · RESULTS

BoostFlow performed well unloading in approximately 12 hours. After the unloading phase, the pump was bypassed to evaluate the well's ability to flow naturally.

~150 psi	>500 psi	4.5 MMscf/d	1,800 bbl/d
Pump suction pressure	Pump discharge pressure	Gas production restored	Condensate production

FIG. 02 · LIQUID AND GAS RATES DURING UNLOADING

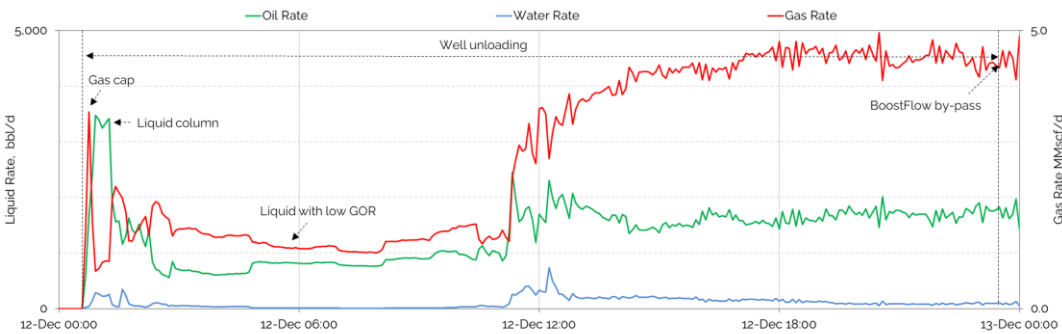
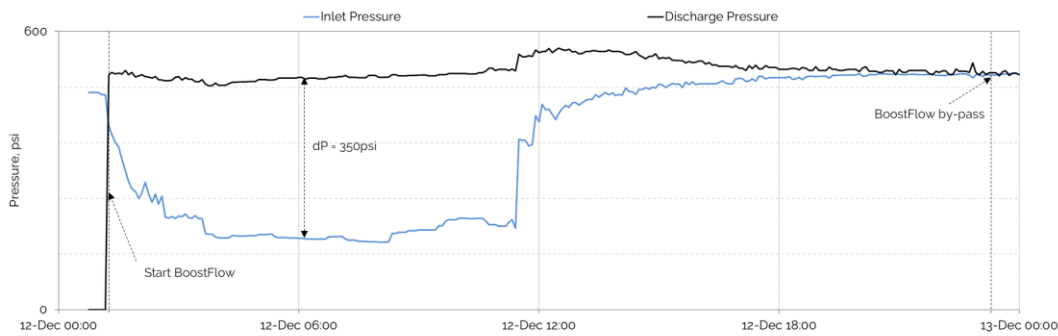


FIG. 03 · PUMP INLET AND DISCHARGE PRESSURE



05 · SUMMARY

The BoostFlow™ deployment successfully reactivated the well and restored production without the need for conventional intervention methods. Key outcomes included:

- Successful unloading of the liquid-loaded gas condensate well
- Rapid restoration of stable production
- Significant reduction in operational time compared to coiled-tubing nitrogen lift
- Reduced operational complexity and manpower requirements
- Lower overall operational cost

The operation demonstrated the effectiveness of surface multiphase boosting as a practical alternative to traditional well unloading techniques.