

CASE STUDY 5

Weatherford

LIQUID UNLOADED

LIQUID LOADING SOLUTIONS FOR ENHANCED PRODUCTION

Presented to
SPE PORT HARCOURT

3/5/2026

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We solve your liquid loading challenges by diagnosing issues early, implementing proactive planning, and using the right application that aligns with your business goals.



Foam Lift

Foam lift uses foamers to generate foam in the wellbore to eliminate liquid loading.

Velocity

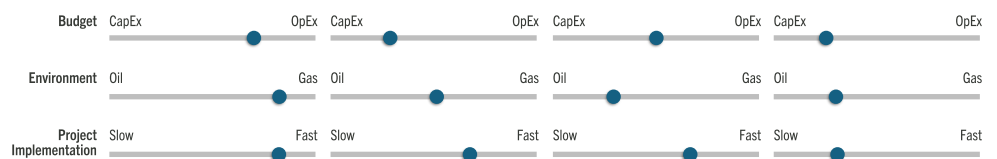
Velocity systems reduce the flow area and increase flow velocity in producing gas wells.

DGLS

Deep Gas Lift (DGLS) alleviates liquid loading by injecting gas into the well to reach critical gas velocity.

IGLS

Installing an Inverse Gas Lift System (IGLS) increases production in a failing production well.





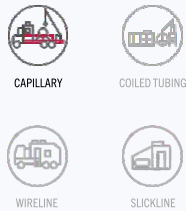
FOAM LIFT SYSTEMS

Cost effective artificial lift by injecting liquid foam into a wellbore at a target depth. Ideal for temporary or permanent applications in wells suffering from liquid loading issues.

System Benefits:

- Small footprint
- Rapid installation
- Deployed in live wells
- Real-time monitoring
- Reduced downtime with continuous injection
- Safety valve retrofit available
- Solar Powered injection skids available
- Complete portfolio of foaming agents and laboratory services

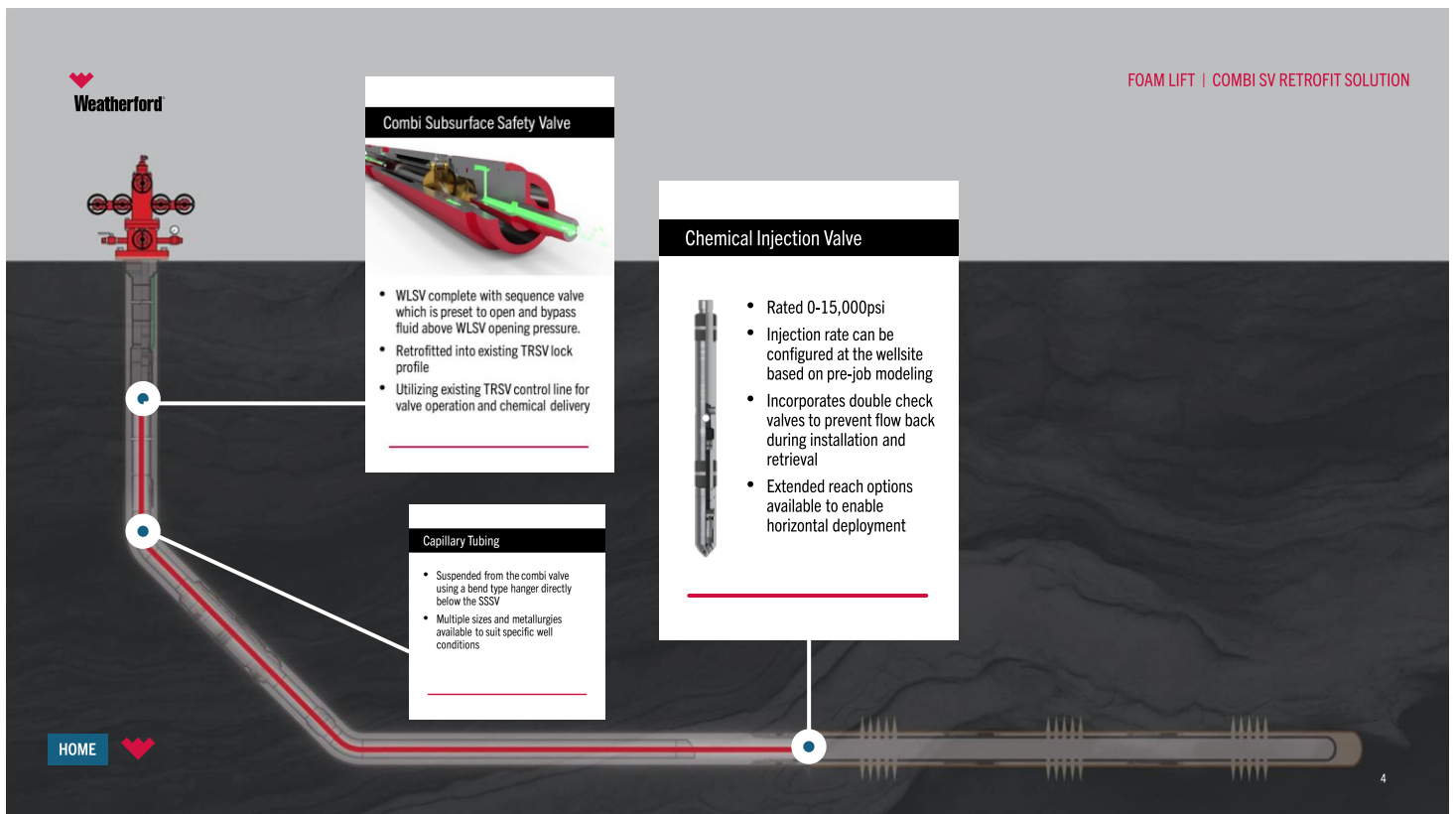
Conveyance Methods:



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FOAM LIFT | COMBI SV RETROFIT SOLUTION



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DEEP GAS LIFT SYSTEM (DGLS)

An efficient and reliable rig-less retrofit solution that allows for the installation of a new casing to tubing injection point below the production packer.

System Benefits:

- Rigless live well deployment
- Retrofit inside completions from 2 7/8" to 7"
- System designed and qualified to ISO 14310/API 11D1 (V0)
- Maximizes production in existing assets, eliminating the need for a workover
- Designed to drift the existing safety valve system to ensure functionality and integrity
- No modifications to surface facilities required

Conveyance Methods:



CAPILLARY



COILED TUBING



WIRELINE



SLICKLINE



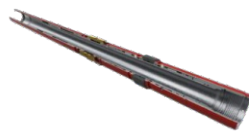
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DEEP GAS LIFT SYSTEM



WidePak Packer - Upper Assembly



- ISO14310 V0 Qualified
- 5,000psi differential
- Patented Hydra Boost system enable high differentials at low packing forces
- Largest through-bore in the industry maximizing production rates

Cross Flow Sub



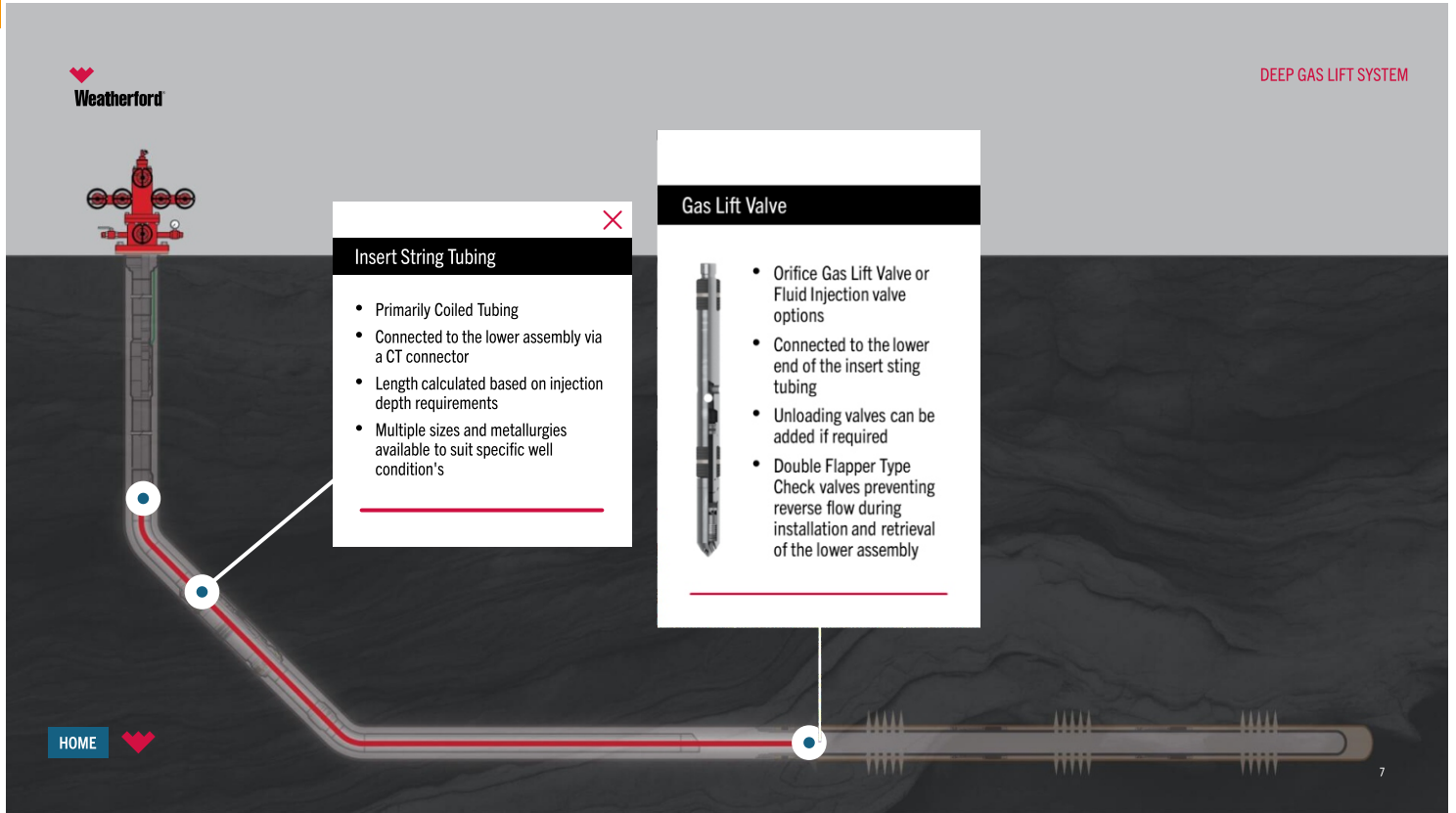
- Simultaneous operation of gas injection via penetration in the tubing string & production diverted into the production tubing
- Seal stinger assembly with RS Anchor

WidePak Packer - Lower Assembly



- ISO14310 V0 Qualified
- 5,000psi differential
- Patented Hydra Boost system enable high differentials at low packing forces
- Largest through-bore in the industry maximizing production rates
- Slotted Pup It
- Polished Seal Bore and anchor latch

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+500% OFFSHORE PRODUCTION INCREASE WITH DEEP GAS-LIFT SYSTEM

REAL RESULTS 01

ELEVATING MATURE WELL PERFORMANCE AND PROFITABILITY

VALUE TO CUSTOMER | OFFSHORE, BRUNEI

Deep Gas-Lift System (DGLS) increased production of offshore well by more than 500% ✓	Saved approximately \$5 million in rig time and associated expenses ✓	No suspension of production during the three-day installation ✓	Nearby wells didn't need to be shut in during intervention adding more value ✓
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THANK YOU

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Questions?

