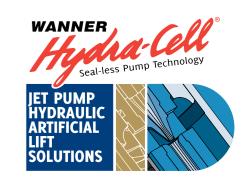
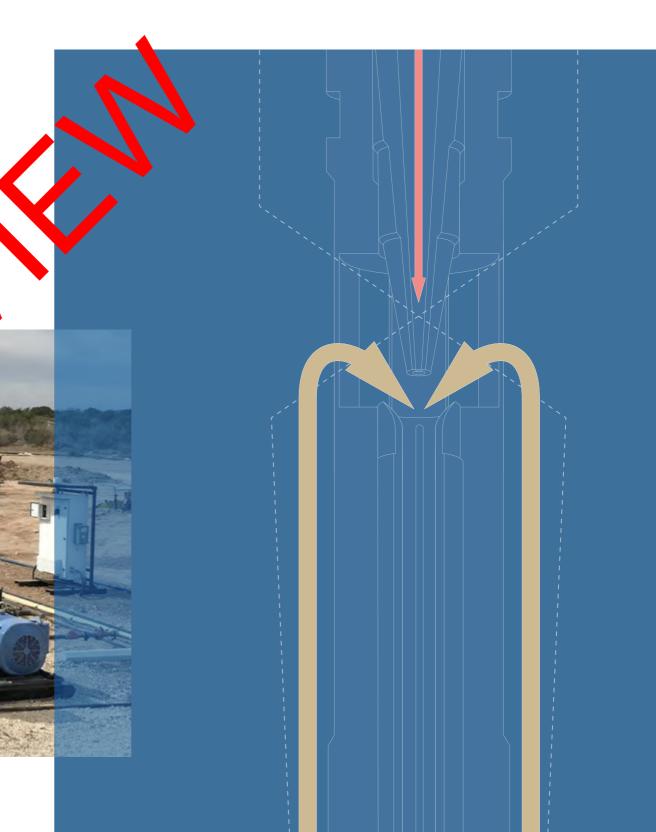
# Lowering the Cost

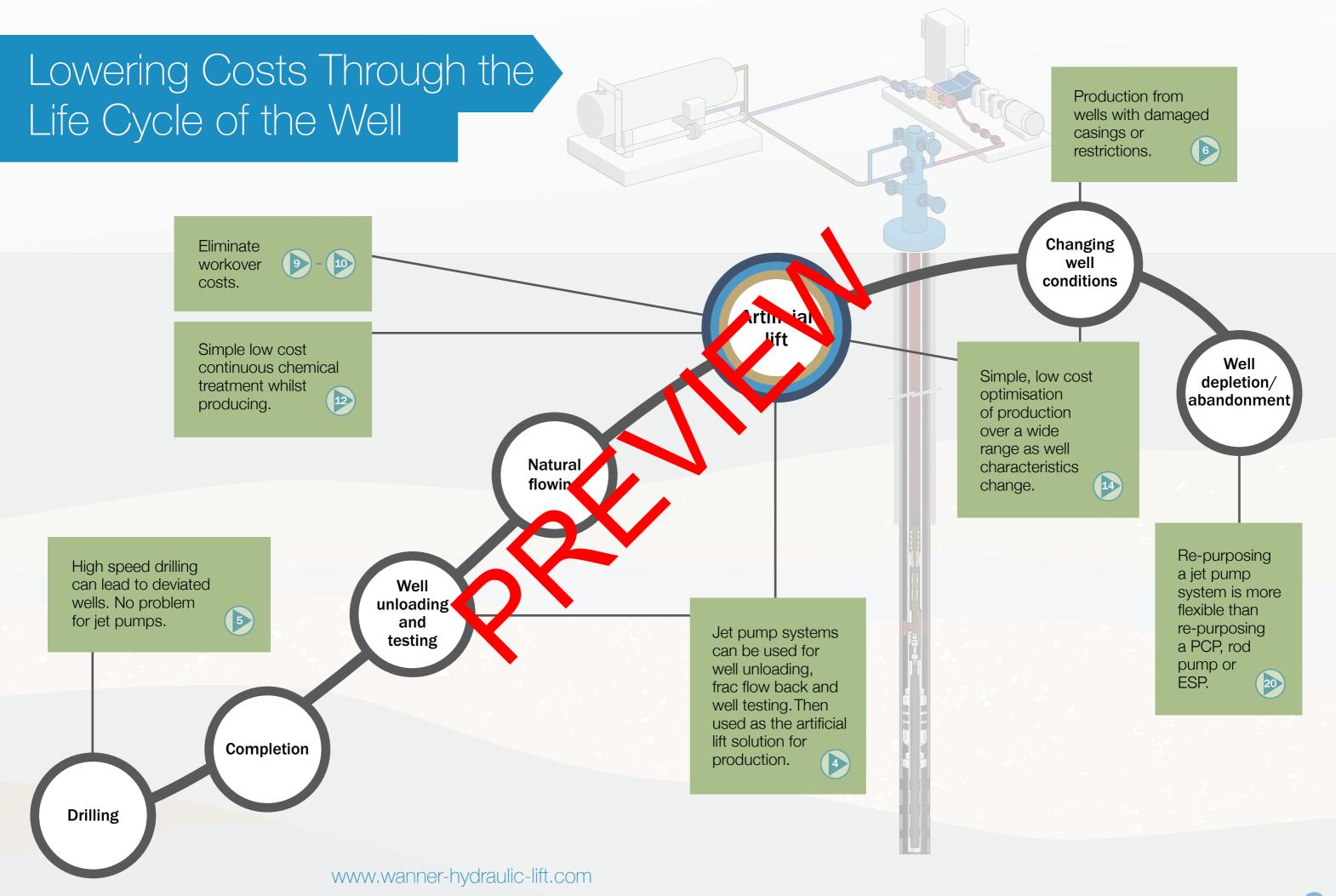
of Lifting a

Barrel of Fluid

Wanner Hydra-Cell® state-of-the-art rig-less, surface pump and jet pump solutions can optimise oil and gas production and lower operating costs over the lifetime of your wells.







### Contents

#### Wanner Hydra-Cell® Jet Pump Hydraulic Artificial Lift Solutions

Lowering Costs Through the Life Cycle of the Well

Flexibility for Different Types of Subsurface Configurations



Overcoming Production Challenges



Overview of the Wanner Hydra-Cell® Jet Pump Hydraulic Artificial Lift Solutions



#### **Jet Pump Technology & TFC Jet Pump**

Overview, Features & Advantages





Standard Flow Mode & Retrieval



Reverse Flow Mode & Easy Retrieval

Continue Producing During Chemical Treatment



High Efficiency Through Design



Range Specifications

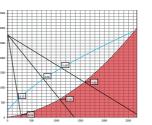


www.wanner-hydraulic-lift.com

Contact us (



#### **Optimisation Software**



No Workover Rig Required

Production Optimisation Through Software Simulations





west Total Cost of Ownership & Lowering the Cost of Lifting a Barrel of Fluid



Energy Saving



Maintenance & Servicing Savings



Economy Through Technology



Pump Capacities



Pump Flexibility



#### **Comparing to Other Artificial Lift Technologies**

Reciprocating Rod Lift (RRL)



Electric Submersible Pumps (ESP)



Gas Lift



Progressive Cavity Pumps (PCP)



Abstract from SPE Manuscript



# Reduce Oil & Gas Production Operating Costs

Wanner Hydra-Cell® state-of-the-art rig-less, seal-less, no packing surface pump and TFC jet pump solution can optimise oil and gas production and lower operating costs over the lifetime of your wells.

For over 40 years, Wanner has been designing and manufacturing API 674, seal-less and packing-free pumps for the Oil & Gas industry; a unique solution as a power fluid surface pump combined with down-hole TFC jet pump technology for a controllable, efficient and reliable Hydraulic Artificial Lift Solution.

#### 3 technology elements to the solution:

## TFC jet pump

Unique design and manufacturing process result in best-in-class overall efficient lift performance. The flexibility to place in the well where all other forms of artificial lift can not operate.



# Hydra-Cell surface power fluid pump

Seal-free, packingfree design ensures minimal servicing with no unscheduled maintenance and efficiencies >90%.



## Optimisation software

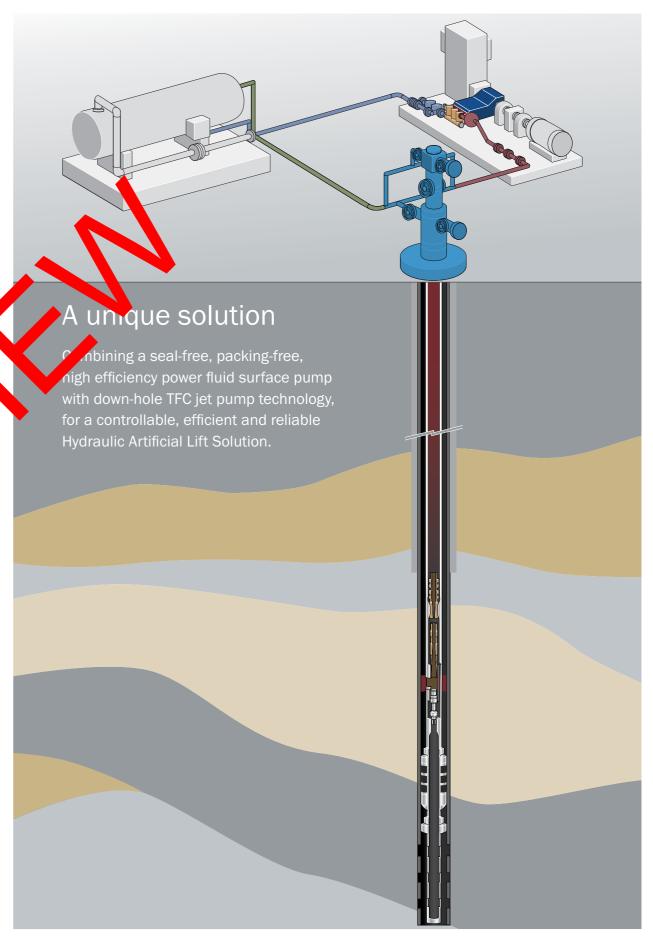
Optimisation algorithms and multiple scenarios plotting enable quicker and easier well optimisation.



No workover rig or slick line unit needed for servicing or well production optimisation

- Wellbore, flow lines and facilities can be completely chemically treated via jet pump power fluid
  - Boost production from deviated, horizontal wells and wellbore restrictions
- Reliability with no down-hole moving parts and handling high sand and gas/liquid ratio (GLR) wells
  - Installation Flexibility: The Hydra-Cell power fluid injection units can be operated using water, crude oil or diesel as the power fluid

## Wanner Hydra-Cell® Jet Pump Hydraulic Artificial Lift Solutions



# Lowering the Cost

of Lifting a



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LIFT SOLUTIONS