LIBERTY LIFT

TOOLWORX SUITE

THE MAX™

The MAX allows for all the benefits of the packer-type separator while minimizing the risk of the packer.

TOOLS FOR TODAY'S CHALLENGING WELLS

The first release from the ToolWorx Suite, The MAX is the culmination of hundreds of years of combined experience in artificial lift optimization. Unique to any other tool on the market, The MAX is the best downhole gas separator ever invented.

20% INCREASED PUMP EFFICIENCY

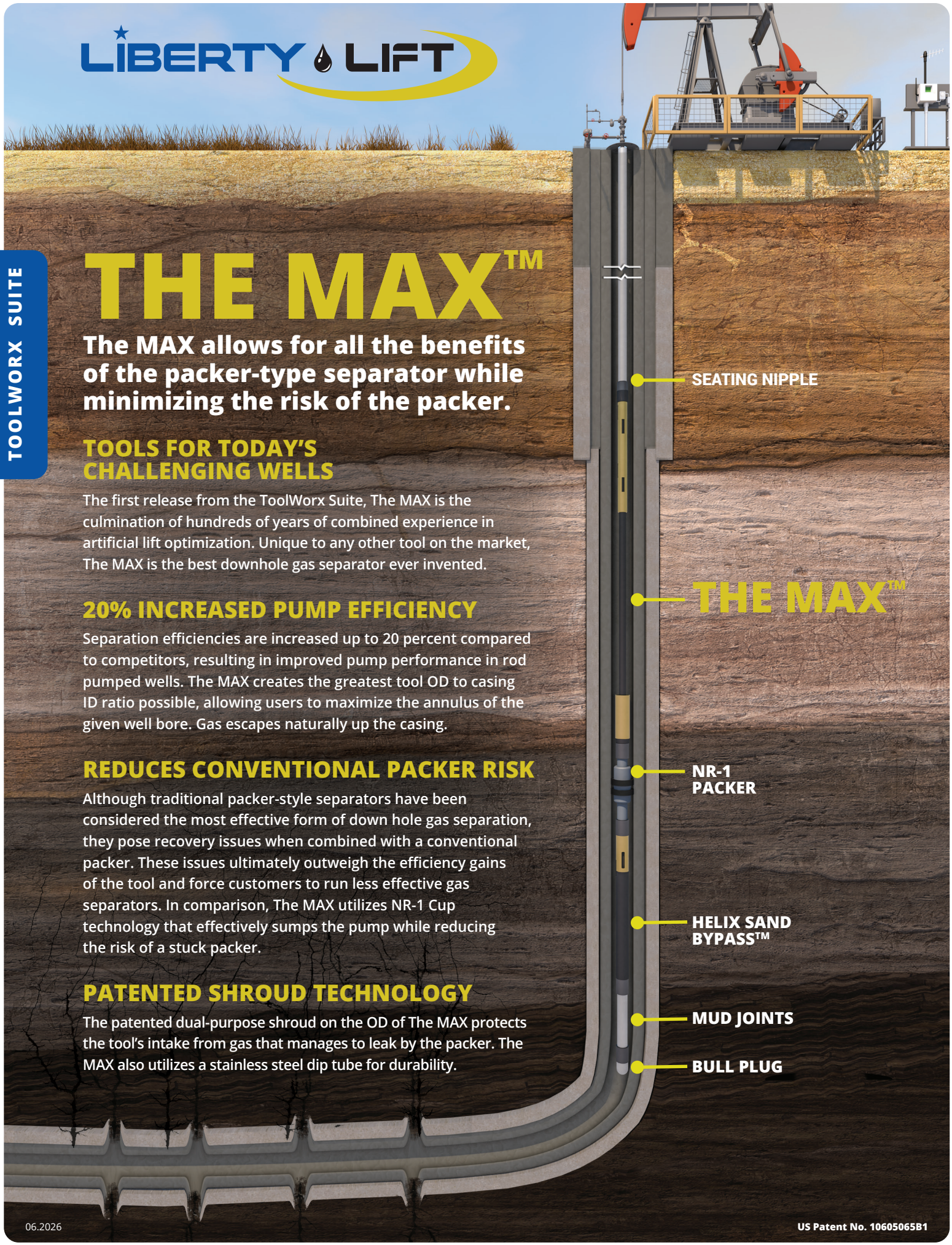
Separation efficiencies are increased up to 20 percent compared to competitors, resulting in improved pump performance in rod pumped wells. The MAX creates the greatest tool OD to casing ID ratio possible, allowing users to maximize the annulus of the given well bore. Gas escapes naturally up the casing.

REDUCES CONVENTIONAL PACKER RISK

Although traditional packer-style separators have been considered the most effective form of down hole gas separation, they pose recovery issues when combined with a conventional packer. These issues ultimately outweigh the efficiency gains of the tool and force customers to run less effective gas separators. In comparison, The MAX utilizes NR-1 Cup technology that effectively sumps the pump while reducing the risk of a stuck packer.

PATENTED SHROUD TECHNOLOGY

The patented dual-purpose shroud on the OD of The MAX protects the tool's intake from gas that manages to leak by the packer. The MAX also utilizes a stainless steel dip tube for durability.

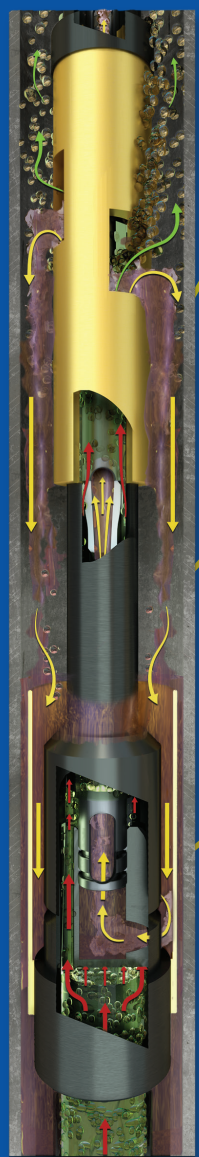


06.2026

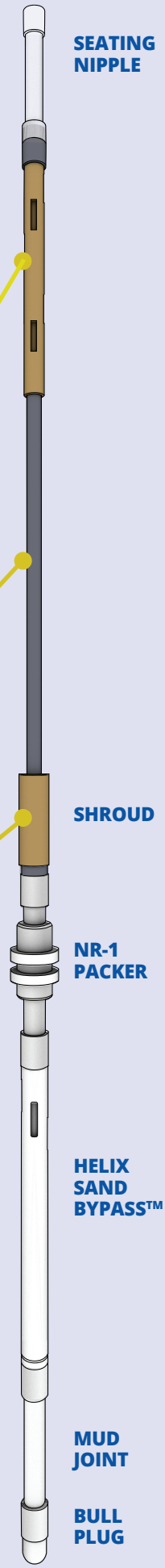
US Patent No. 10605065B1

THE MAX
HOW IT WORX

1. After exiting the solids separator, fluids and gas enter the cup-style packer through the ID of the tool, traveling upwards.
2. At the 35' mark, fluids exit the slots, which helps minimize turbulence and emulsions.
3. Fluid then slowly spills out of the slots at the top of the tool into the casing annulus.
4. This is the moment of truth for gas separation as gas rises through the casing while fluid travels 40' toward the packer seal and shroud.
5. Gas-free fluid catches in the shroud and enters the ID of the dip tube, where it is forced upward to pump.



- OIL & GAS
- GAS
- OIL



COMPETITIVE ADVANTAGES

IMPROVED PERFORMANCE

BENEFITS OF PACKER-STYLE SEPARATOR WHILE MINIMIZING THE RISK OF THE PACKER.

- Set TAC above assembly
- Packer elements require no slips
- No need to pull tension into BHA

PATENTED SHROUD PROVIDES PROTECTION AGAINST LEAKY PACKERS.

PATENTED FEATURES REDUCE TURBULENCE AND EMULSIONS.

- No baffles
- Less emulsions in fluid column

SMALLER OD ALLOWS FOR MAXIMIZED SEPARATION AREA.

- 20% efficiency increase on average, depending on application

DESIGNED TO RUN IN CONJUNCTION WITH OUR PATENTED SOLIDS SEPARATOR, THE HELIX SAND BYPASS, AND NR-1 PACKER.

REDUCE RISK

MINIMIZE STUCK PACKER AND FISHING JOBS

ROD-PUMP APPLICATIONS

- 4.5", 5.5", 7" Casings
- Conventional & Unconventional Wellbores
- High-Production Scenarios
- High-GLR Scenarios
- Conventional & Long-Stroke Pumping Unit Wells

LIBERTY LIFT SOLUTIONS
DOWNHOLE TOOLS

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