

HARTENERGY



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AUGUST 2019

Marine Seismic

MPD/UBD

Pressure Pumping

Artificial Lift

Water Management

Remote/Unmanned
Well Operations

Special Section:
Artificial Lift
Technology Showcase

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IndustryVoice[®]

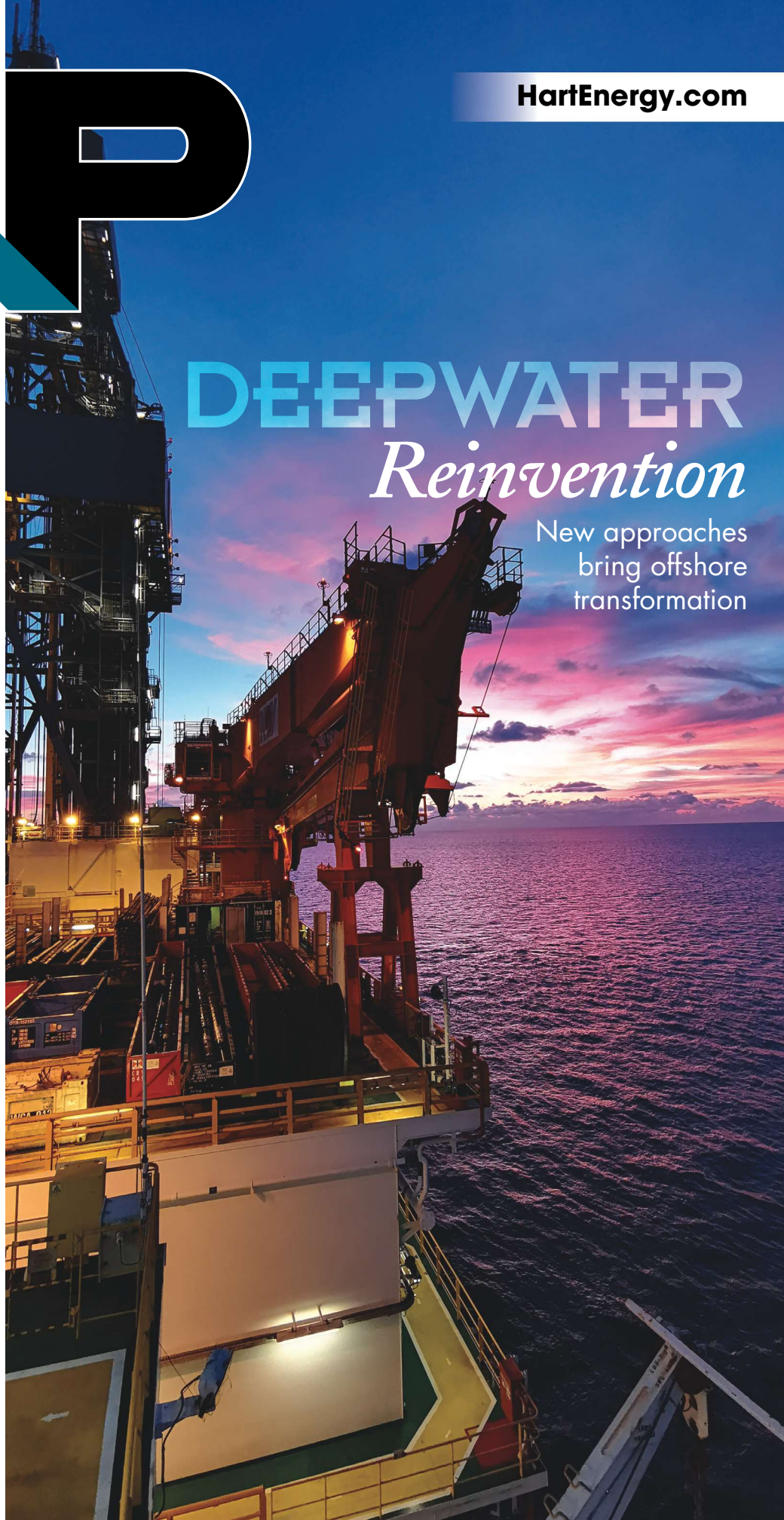
DUG Eagle Ford Conference

Unconventional
Report:

MIDDLE EAST

DEEPWATER *Reinvention*

New approaches
bring offshore
transformation



Magnetic technology harnessed to improve ESP reliability

Electric submersible pumps (ESPs) have been widely employed for many years as artificial lift devices. But ESPs are often plagued by reliability issues, resulting in high operating and capital costs and loss of production to retrieve and replace the pump. To improve reliability and retrievability of ESPs, Upwing Energy has developed the new Magnetic Drive System (MDS) for ESPs. Upwing's design uses advanced magnetic technologies that eliminate the need for the vulnerable rotary seals and the rest of the protector unit, which is the most frequent source of failures. Mechanical contact bearings are replaced by frictionless magnetic bearings that levitate the motor rotor without physical contact with the motor stator. All electrical components are hermetically sealed inside the motor stator housing and isolated from the production fluids. The pump and Inconel-sleeved motor rotor without any electrical components can be easily retrieved via slickline in a single run. There is no electrical connection and only magnetic fields between the motor stator and rotor to improve the reliability and retrievability of the ESP further. Upwing has used the same magnetic building blocks in its Subsurface Compressor System, a high-speed downhole artificial lift system that overcomes liquid loading and boosts gas production and reserves. upwingenergy.com

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