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Tech Trends

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Hydrostatic pressure vessels offer pressure capacity up to 10,007 psi

MacArtney introduced its new range of in-house-developed hydrostatic pressure vessels for companies that require setting up their own facilities capable of putting almost any type of underwater equipment to the test. MacArtney now offers a range of four standard pressure vessels, according to a product announcement. With a pressure capacity up to about 10,007 psi, the company's standard pressure vessels can simulate the hydrostatic operating conditions at 7,000 m (22,965.9 ft) of ocean depth. The entire testing process is computer-controlled with real-time electric and optical measurements. Control software developed in-house enables plug-and-play testing, bespoke test programs and repeated pressure cycling. Other pressure vessel benefits include lid integrated penetrators and the userfriendly "clamp-lock" system, which allows swift test mobilization and turnaround. Optional features include live video monitoring and in-vessel temperature control. macartney.com



A MacArtney hydrostatic pressure vessel has been installed within a new test environment. (Source: MacArtney)

Corrosion inhibitor protects pipelines

GE introduced the GE ProSolv Corrosion Inhibitor to help protect crude oil and gas pipelines against the corrosive nature of acid gases. The hydrocarbon-soluble corrosion inhibitor is a cost-effective chemistry that protects against corrosion in a wide variety of operating conditions including sweet, sour, wet and dry gases, the company said. Using locally sourced solvents leading to improved logistics and shorter lead times, the corrosion inhibitor is applicable in upstream and downstream process streams. It is compatible with injection packages' most commonly used metallurgies and is safe to handle and store in hot climates. geoilandgas.com

Fluid, cuttings separator can operate up to four shakers

M-I SWACO, a Schlumberger company, released the SCREEN PULSE fluid and cuttings separator. Easily installed onto new or existing shale shakers, the fully pneumatic system delivers drilling fluid recovery of up to 30 bbl/d and an average drill cuttings waste reduction of 20%, according to a press release. Operators drilling on land, in shallow waters and in deepwater are looking for ways to

optimize the efficiency of the solids control process and lower the total cost of drilling, the release said. Combined with M-I SWACO's shaker technology and lightweight composite screens, the new SCREEN PULSE separator can maximize drilling fluid recovery and can generate drier cuttings, which can reduce waste handling and disposal and overall drilling costs. The separator is a retrofitted fully pneumatic system equipped to operate up to four shakers simultaneously. A carbon-fiber pan fitted with an air valve mechanism that provides a pulsing air supply pulls drilling fluid from the cuttings as they travel toward the discharge end of the shaker. The new separator was field-tested in the Middle East; South America; and North America, including in Oklahoma, Pennsylvania, Texas and Louisiana. miswaco.com/screenpulse

Subsea flowline inspection technology locates blockage issues

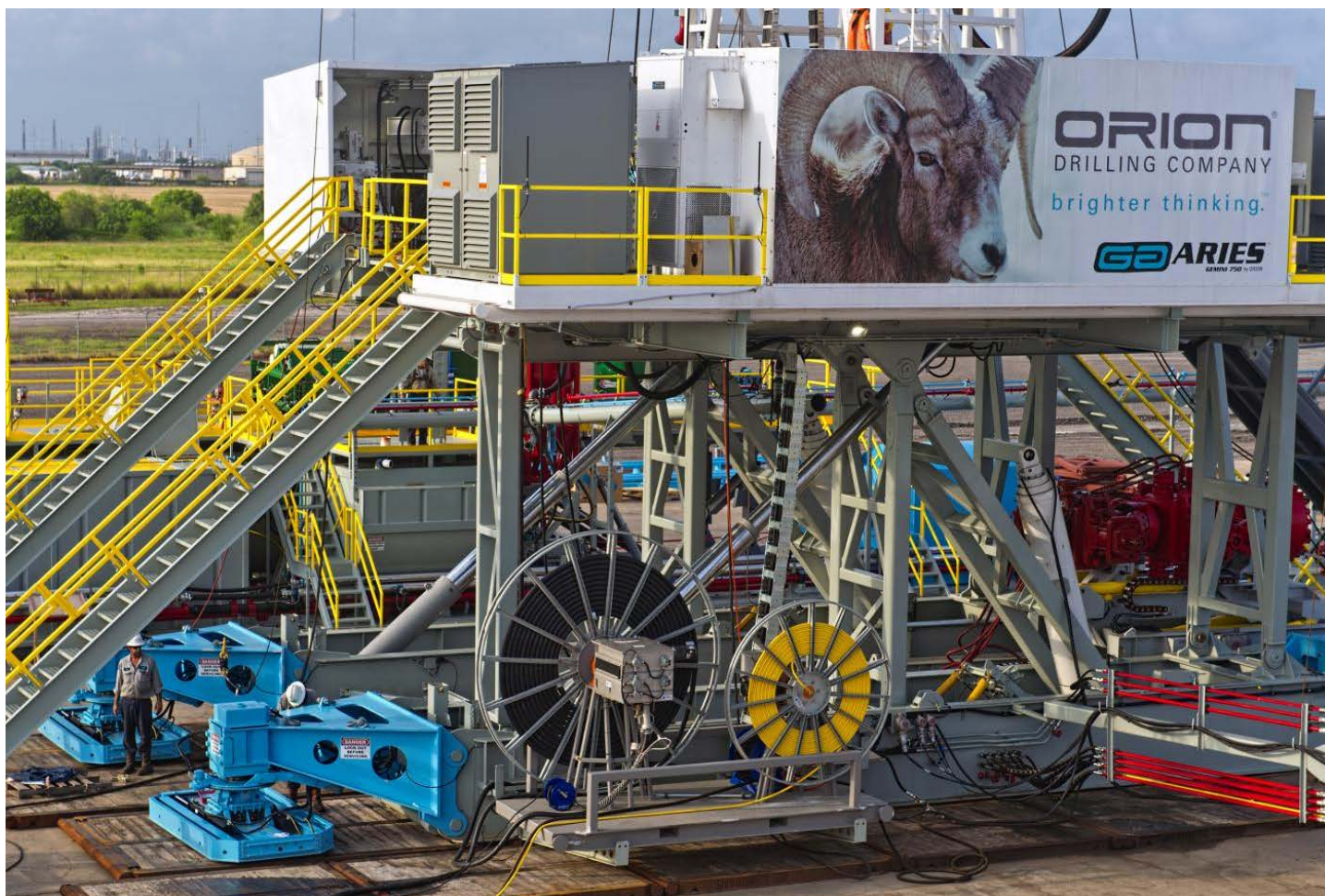
Tracerco has released Explorer, a technology able to screen subsea pipelines for content and deposit buildup at speeds of up to 100 m (328 ft) per hour, meaning many kilometers of pipeline can be surveyed per day, according to the company. Explorer has been developed for use in conjunction with Discovery, which is the technology for pipeline inspection that gives detailed high-resolution computed tomography scans of subsea pipelines, distinguishing between wax, hydrate, asphaltene or scale deposition at density differences of 0.05 g/cu. m. Once Explorer has located the area of the suspected blockage, Discovery can be deployed to accurately characterize its precise nature. Both devices are nonintrusive, scanning content from outside the pipeline. There is no need to remove protective coatings or interrupt production to carry out the inspection, making it a cost-effective solution to flow assurance problems. Explorer can operate at depths of up to 3,000 m (10,000 ft) and can cover pipe diameters from 2 in. to 60 in. It has the ability to screen a variety of different piping systems, including standard rigid pipe (coated or uncoated), pipe-in-pipe, bundle systems and flexibles. tracerco.com/subsea/explorer

System designed to move rigs over drill pad sites safer, more efficiently

Integrated Drive Systems (IDS) has developed the patent-pending ReelRig distributed power and control system, designed to enhance walking rig mobilization and operations. The system replaces a traditional centralized power network with a clean, streamlined power and control cable-handling system designed for moving rigs over drill pad sites safer and more efficiently, the company said. The system locates variable-frequency drives (VFDs) and programmable logic controllers near the driven equipment. This process involves eliminating multiple power and control cables and connectors by adding a transformer to the backyard power house area, "stepping up" the power from 600 v to 4,160 v, sending that power through a single medium-voltage cable, "stepping down" the voltage at the rig via another transformer and then distributing the power closer to where

it is needed on the rig. The entire ReelRig system consists of the power control house with mud system VFDs, transformers, cable and cable-handling system/skid, local equipment room VFDs, driller's cabin with integrated driller's controls, AC drawworks controls, and AC top drive controls.

ids-oilfield.com



The IDS ReelRig power and communication cable spooling skid is shown attached to the substructure of Orion Drilling's new Aries Rig #18. (Source: Integrated Drive Systems)

Iron sulfide scale inhibitor requires lower dosage rates

Clariant Oil Services introduced its SCALETREAT FeS iron sulfide scale inhibitor. SCALETREAT FeS prevents scale formation and any resultant damage at considerably lower dosages than existing chemistries such as tetrakis hydroxymethyl phosphonium sulfate (THPS) and Acrolein, according to the company. The low-dose continuous injection iron sulfide scale inhibitor also targets and prevents sulfide scales of zinc and lead. The field-proven inhibitor slowly dissolves existing iron sulfide deposits at threshold concentrations levels as much as 50% lower than the market's benchmark THPS product. In addition, the scale inhibitor is effective over a broad range of temperature, pressure and salinity conditions. clariant.com

System handles issue of corroded bolts

Equalizer Flange Integrity Systems, part of the Equalizer Group, designed the Xtegrity system, which provides a solution for dealing with heavily corroded or degraded bolts in flange joints on offshore and onshore installations, according to the company. The system takes away the need to remove corroded bolts by replacing them with a new set of bolts that clamp around the outside of the flange and are held in place with a floating frame. Xtegrity can reduce the time required to carry out work from days to hours, the company said. equalizerfis.com



The Xtegrity system won the Grampian Award for Innovation at the Elevator Awards in the U.K. (Source: Equalizer Flange Integrity Systems)



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