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Oilfield Pulse

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Valaris to reactivate drillship five years after last contract

The Valaris DS-17 drillship will be reactivated for a new contract with Equinor off Brazil. The contract makes up just over half of the \$466 million that Valaris added to its backlog since its May 2 fleet status report. Delivered in 2014, the DS-17 hasn't worked under contract since 2017.

"We expect Brazil to be a significant growth market for high-specification floaters over the next several years, and we are well-positioned to benefit by now adding a third rig to this DS-17 hasn't worked under contract since 1Q17, when it was still the Rowan Reliance.

strategic basin," Valaris CEO Anton Dibowitz said. The 540-day contract, which is expected to commence in mid-2023 at the Bacalhau oil field, has a backlog value of \$241 million—roughly equivalent to a \$446,000 day rate—but Valaris also said the sum includes additional services such as managed pressure drilling, remotely operated vehicles, casing running, slop treatment and cuttings handling.

Equinor will also pay \$86 million up front for mobilization costs, a contribution toward reactivation costs, and capital upgrades. The DS-17 has been idle since March 2017, when Cobalt International Energy terminated the contract of the drillship, then called the Rowan Reliance, 11 months early. *Read more...*

TGS binge includes Magseis Fairfield & Ion's multiclient library

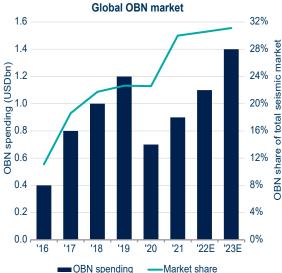
Oslo-based TGS ASA is in an acquisitive mood, offering NOK 2.33 billion (\$269 million) in cash and stock to acquire Magseis Fairfield ASA, winning the bankruptcy auction for Ion Geophysical Corp.'s multiclient and processing businesses and closing on management software firm Prediktor. The company believes these transactions are positioning it for both strong oil and gas demand and the coming energy transition.

"We've already seen the early signs of an energy upcycle, and we think this will continue," CEO Kristian Johansen said on a July 5 conference call. "We think there are really, really strong drivers in the society right now, while there will be a higher demand for energy in the future and oil and gas cannot carry the burden itself."

Under a transaction announced June 29, TGS will acquire all shares of Magseis, each in exchange for 0.0426 TGS ordinary shares and NOK 2.30 cash. That's equivalent to NOK 8.6048 per Magseis share based on June 28 closing prices, a 54% premium. **Read more...**

TGS Looks to Enhance OBN Position Via Magseis Fairfield

- E&P companies are strengthening their focus on cycle time costs-higher share of demand for seismic data is driven by infrastructure-led exploration (ILX) and production
- An increasing amount of surveys are "converted contracts," which give higher IRR and lower Sales-to-Cost
- OBN has been gaining market share of overall seismic spend over time
- Favourable market dynamics in terms of:
 - Increased operational experience in the industry,
 - Lower cost levels and improved risk mitigation, and
 - ➤ A healthier relationship between demand and supply



Source | TGS 07/05/22 presentation via Enverus docFinder

Oilfield Pulse

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Contracts & Projects

Seadrill wins 9 rig-years of extensions at 33% higher day rates

Saudi Aramco extended drilling contracts with Seadrill Ltd. for the AOD I, AOD III and West Callisto jackups for work in the Persian Gulf. Total contract value for the three contracts is about \$361 million, roughly \$90 million or 33% more than the rigs would earn in three years at their current day rates.

The firm term of each new contract is three years, with commencement in direct continuation of the current contracts. The AOD I, AOD III and West Callisto are now committed to June 2025, December 2025 and November 2025, respectively.

"We are pleased to be extending these rigs in the Arabian Gulf, solidifying Seadrill's strong market share and further extending our impressive backlog," CEO Simon Johnson said. Seadrill has one other jackup working for Aramco; the AOD II's contract runs into April 2024. The offshore driller also has three jackups working off Qatar: two for QatarGas and one for Shell.

TGS to reprocess seismic in U.K.'s Greater Catcher area

TGS will conduct a new seismic reprocessing project covering 3,500 sq km in the western margins of the U.K. central North Sea. The Oslo-based company said the project is supported by industry and aims to secure further exploration success in the area.

The data to be reprocessed covers quads 21, 28 and 29 in the Greater Catcher area on the margins of the U.K. Central Graben. Acquired in 2011 and 2012, the original data will be reprocessed through a fully comprehensive, broadband, pre-stack time migration processing flow, focused on maintaining the amplitude variation with offset character of the data to allow for an inversion-based quantitative interpretation workflow to follow.

Highlights of the processing flow include TGS's inversion-based de-ghosting technique, comprehensive shallow-water de-multiple routines and a high-fidelity migration algorithm to provide the robust amplitude-versus-offset-compliant regional benchmark dataset for the innovative interpretation and inversion workflow. This newly enhanced data and interpretative QI output, combined with TGS's existing seismic coverage in the area, will augment understanding of the subsurface.

"Our inversion-led processing and interpretation efforts are designed to solve the challenges of this mature region and maximize opportunities for our clients," TGS Eastern Hemisphere EVP Will Ashby said. TGS expects the resulting augmented understanding of the subsurface to enable the targeting of prolific Tay sandstone reservoirs with a view to future development.

Baker Hughes' electric compressors to support Tellurian pipeline

Tellurian Inc. subsidiary Driftwood Pipeline LLC awarded a contract for Baker Hughes to provide electric-powered Integrated Compressor Line technology and turbomachinery equipment for Lines 200 and 300, a gas transmission project proposed for southwest Louisiana's Beauregard and Calcasieu parishes. This contract marks the first time that Baker

Hughes will install its ICL decarbonization technology for pipeline compression in North America.

ICL technology will allow lines to move up to 5.5 Bcf/d with no emissions, Tellurian says.

"We anticipate the project will supply upwards of $5.5\ \mathrm{Bcf}$ of natural gas daily, with

virtually no emissions," Tellurian pipelines president Joey Mahmoud said. "Tellurian is doing its part by making this initial \$240 million pipeline investment as part of the broader Driftwood pipeline system, which will provide enhanced supply reliability to meet the area's projected industrial growth in a cleaner, more sustainable manner."

The project will initially include four 19 MW ICL compressors and other turbomachinery equipment for a total of four compressor trains, as well as a LM6000PF+ gas turbine for backup power at Driftwood's Indian Bayou compressor station. The ICL zero-emissions integrated compressor offers a more reduced footprint and weight, as well as improved operational flexibility and availability compared with conventional electric motor driven trains, Baker Hughes said.

Sembcorp Marine delivers first drillship designed for 20 kpsi

Transocean has taken delivery of the Deepwater Atlas from Sembcorp Marine, which called the rig the world's first eighth-generation drillship. Committed to Beacon Offshore Energy's high-pressure Shenandoah project in the Gulf of Mexico, the Deepwater Atlas is the first of two ultradeepwater drillships based on Sembcorp's proprietary Jurong Espadon 3T design. It features 3 million-lb hook load hoisting capacity and can accommodate well-control systems for 20,000-psi drilling and completion operations.

Deepwater Atlas delivered with 15 kpsi BOPs; 20 kpsi BOP coming in 2023.

Capable of operating at 12,000-ft water depth and drilling to depths of 40,000 ft, the Deepwater Atlas can accommodate a crew of 220. It is designed and equipped to optimize fuel consumption and lower emissions, Sembcorp Marine said.

The rig should commence Shenandoah operations in late Q4, initially using dual blowout preventers rated to 15,000 psi. The initial drilling program is expected to last 255 days, after which a 20,000-psi BOP will be installed on the rig. Following a 45- to 60-day BOP installation and commissioning process, the Deepwater Atlas will commence a completion program at Shenandoah that is expected to last 275 days.

Close behind the Deepwater Atlas should be the eighth-generation drillship Deepwater Titan, also built by Sembcorp Marine. The rig completed drydocking in Singapore in February and will be equipped with two 20,000-psi BOPs and 3 million-lb hook load capability. The drillship, also going to Transocean, is contracted to Chevron's Anchor development in the GOM for five years starting in 2023. The 20,000-psi BOPs for both drillships were ordered from NOV.

Contracts & Projects

TechnipFMC to handle FEED for Equinor pre-salt development

TechnipFMC signed an LOI with Equinor for an integrated FEED study on development of its BM-C-33 pre-salt gas and condensate block in Brazil's Campos Basin. Equinor has an option to proceed with a direct award to TechnipFMC for the integrated EPCI phase of the project, valued at more than \$1 billion.

The FEED study will finalize the technical solution for the proposed greenfield development before Equinor makes its FID, expected in 2023. The EPCI contract,

FEED will finalize technical solution for BM-C-33 ahead of expected 2023 FID.

if awarded, would cover the entire subsea system, including TechnipFMC's Subsea 2.0 tree systems, manifolds, jumpers, rigid risers and flowlines, umbilicals, pipeline end terminations, and subsea distribution and topside control equipment. TechnipFMC would also be responsible for life-of-field services.

Equinor (35% WI), with license partners Repsol Sinopec Brasil (35%) and Petrobras (30%), approved the development concept for BM-C-33 in 2021. The wellstreams will be sent to a newbuild FPSO located on the block, where Repsol Sinopec Brasil made a series of discoveries starting in 2010 and Equinor predecessor Statoil took operatorship in 2016.

Petrofac continues run in Africa with Tullow Jubilee contract

Tullow Oil has selected Petrofac to provide operations, maintenance and technical support services for the Kwame Nkrumah FPSO at its Jubilee development off Ghana. Financial terms were not disclosed for the contract—the latest in a run of recent African awards for Petrofac. In May, Tullow hired Petrofac to decommission seven subsea wells at its Banda and Tiof fields off Mauritania and BP hired it to provide offshore operations services for the Greater Tortue Ahmeyim project off Mauritania and Senegal, including an FPSO and LNG hub.

"This new partnership with Petrofac will leverage Petrofac's years of experience in operating onshore and offshore facilities and will deliver improved operations on KNK," Tullow CEO Rahul Dhir said, referring to the Kwame Nkrumah FPSO. "In particular, Petrofac's experience in workforce training will be key in helping Tullow develop Ghanaian talent in leadership roles in the management of Ghana's offshore facilities."

Commissioned in 2010 after a conversion by Modec, the Kwame Nkrumah FPSO is installed in 1,100 meters of water and can produce 120,000 bo/d and inject more than 230,000 bbl/d of water and 160 MMcf/d of gas. Tullow operates Jubilee with 38.9% WI, partnered with Dallas-based Kosmos Energy (38.3%), Ghana's state-owned GNPC (19.69%) and South African producer PetroSA (3.11%).

TAQA decoms Brae structures with Heerema and AF assistance

Abu Dhabi National Energy Co., also known as TAQA, completed the safe and successful removal of the Brae Alpha West drilling rig and the Brae Bravo upper main jacket with Heerema Marine Contractors' semisubmersible crane vessel Sleipnir performing the heavy lifting. The operation, the latest in TAQA's extensive U.K. Continental Shelf decommissioning program, removed and transported more than 12,000 tonnes of material from Brae field in the North Sea.

The Sleipnir removed the 1,000-tonne Brae Alpha Rig 1 in a single lift June 20, then moved to Brae Bravo to remove the 11,000-tonne upper main jacket. Both Rig 1 and the Brae Bravo jacket have been safely offloaded at AF Offshore Decom's environmental base in Vats, Norway, and are being processed with the aim of reusing or recycling 95% or more of the material. The process is expected to be completed in 2023.

The removal of the Brae Bravo upper main jacket followed last summer's removal of the platform's topsides modules, flare bridge, flare jacket and flare tower last summer, which TAQA called one of the largest topsides removals ever in the U.K. North Sea. It had also contracted with Heerema and AF for that earlier step in its decommissioning obligations. Prior to cessation of production in 2018, Brae Bravo produced more than 500 MMboe over its 33-year life. The Brae Alpha platform began production in 1983 and remains in operation.

TechnipFMC to handle Neptune's technical services into 2027

Neptune Energy signed a new contract with TechnipFMC for technical services in Norway, according to a July 11 announcement. The agreement, which started July 1, builds on an existing contract, now optimized to fit Neptune's future requirements.

TechnipFMC will continue to provide a wide range of engineering, study and technical services to Neptune. This includes installation work and operational support for Neptune's development projects and producing fields. The new contract has a potential length of more than five years. Financial terms were not disclosed.

U.K.-based Neptune Energy is the operator of the Gjoa platform in the North Sea, which currently acts as a hub for three subsea fields—Gjoa, Vega and Duva. A fourth field, Wintershall Dea-operated Nova, is due to be tied back for production later this summer. Neptune also operates the Fenja development project in the Norwegian Sea.

L&T gets large EPCI contracts, reportedly for Aramco offshore

Larson & Toubro reported that its hydrocarbon division secured three offshore packages from a "prestigious overseas client." Mumbai-based L&T called the packages "large" contracts, its terminology for awards in the range of INR 25-50 billion (\$320-630 million). The scope of work comprises EPCI for various new offshore jacket structures. L&T Energy Hydrocarbon has executed orders for this client in the past, the company said.

Upstream reported that it understands the award to be related to Saudi Aramco's offshore maintenance program, involving its long-term agreement with EPCI players. Saudi Aramco recently distributed more than \$1.6 billion under this agreement to an L&T-Subsea 7 consortium, Saipem and Abu Dhabi-based National Petroleum Construction Co.

Contracts & Projects

Valaris to reactivate drillship 5 years after last contract < From PG.1

The DS-17 went into cold stack in Spain just over two years ago. Another Valaris drillship, the DS-15, earned a contract extension with TotalEnergies, also off Brazil. The option exercise directly continues the current firm program and should run into December.

After the DS-17, the largest recent addition to Valaris' backlog is a four-year contract with Shell off Brunei for the heavy-duty modern jackup Valaris 115. The contract is expected to commence next April and has a total value of \$159 million. The jackup is under contract until September with Mubadala Petroleum off

Thailand, at an undisclosed day rate.

The Valaris DPS-1 semisubmersible secured a two-well extension with Woodside Energy off Australia. The two-well extension has

Jackup wins four-year contract from Shell off Brunei, valued at \$159MM.

an estimated duration of 38 days and will directly continue the existing firm program for Woodside's Enfield plugging and abandonment campaign, which will run to June 2024. The extension brings the P&A campaign to 18 wells in total.

In the Gulf of Mexico, the standard-duty modern jackup Valaris 144 picked up two contracts. In Q3, it will work a four-well contract with an undisclosed operator, which should require 60 days and is valued at \$5 million. After that, the rig will start a 90-day contract with privately held Louisiana E&P company Cantium LLC, which is expected to commence in Q4. The operating rate of the Cantium contracts is \$80,000/day, for a total of \$7.2 million.

The heavy-duty harsh environment jackup Valaris 122 received a one-well extension with Shell in the U.K. North Sea, with an estimated duration of 150 days. The heavy-duty modern jackup Valaris 107 signed a one-well contract with GB Energy off Australia to commence either late Q4 or early 1Q23 with an estimated duration of 20 days and an operating rate of \$118,000/day, for a total of \$2.4 million.

Valaris also sold the standard-duty jackup Valaris 36 to another drilling contractor with restricted-use provisions for \$9 million. The fourth jackup Valaris has sold this year, the Valaris 36 was leased to ARO Drilling, a JV of Valaris and Saudi Aramco, for use by Aramco off Saudi Arabia until May.

Current Rig Fleet to Form Basis of Supply for Foreseeable Future

Some of the rigs that have been stacked for prolonged periods may never return to the active fleet. Higher day rates likely required to incentivize rig reactivations and delivery of stranded newbuilds.

Delivered Rigs	Drillships	Benign ¹ Semis	Harsh ¹ Jackups	Benign ¹ Jackups
Contracted	71	34	31	332
Available	9	20	5	60
Active Fleet	80	54	36	392
Cold Stacked	15	8	-	59
Total Fleet	95	62	36	451
Active Utilization	89%	63%	86%	85%
Total Utilization	75%	55%	86%	74%
Newbuilds	16	3	6	22





Time Stacked - Available and Cold Stacked Rigs

Benign Semis

Drillships

Source | Valaris 05/03/22 presentation via Enverus docFinder

CGG wins four-year extension for Petrobras services center

CGG secured a four-year contract extension for its reservoir services center dedicated to Petrobras in Rio de Janeiro. The Paris-based geosciences company said its in-house team of reservoir characterization specialists have worked closely with the Brazilian producer for the last 15 years, supporting its asset teams in optimizing the value of its seismic data and resolving complex geophysical challenges present in Brazil's pre-salt and post-salt fields.

Under terms of the contract, CGG will continue to provide its proven reservoir characterization workflows, such as geostatistical, 4D and azimuthal inversion, while also bringing new technologies to Brazil to further enhance

Will conduct first oceanbottom node survey in Egypt's Nile Delta.

reservoir understanding. These include its EBPetro and EBMatch ensemble-based petrophysical inversion and history matching, machine learning-augmented rock physics workflows, PP-PS inversion and joint azimuthal inversion of amplitudes and velocities. Financial terms of the contract were not disclosed.

CGG separately announced that it will conduct the first ocean-bottom node survey in the Nile Delta. BP and JV partner Pharaonic Petroleum hired the geoscience company to produce 3D seismic imaging covering the Atoll and Atoll North fields. CGG said it will apply its high-end oceanbottom seismic and full waveform inversion imaging technologies and specialized high-performance computing from its U.K. and Cairo imaging centers to deliver 3D seismic images of pre-Messinian targets with greater velocity model detail, image bandwidth and amplitude-versus-offset reliability for improved field development planning and near-field exploration.



















