From: Tecon Oil Services
To: nnaemeka.echegiri@teconoilserv.com
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TECON Monthly News Bulletin

December 2009

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Hot Industry News

The Nigerian National Petroleum Corporation (NNPC) has said that the nation's crude oil production capacity has recorded a quantum leap in the aftermath of the amnesty programme and the return of peace in the Niger Delta area.

According to NNPC GMD, "We are pleased to announce that for the first time in nearly three and half years, our crude oil production yesterday (Nov 12 2009) peaked at record 2.4 million barrels per day."

For full details, click here.

Did you know?

lathe

Did you know that Tecon Oil Services Limited offers **Machineshop & Fabrication Services?** Did you know that we have been offering these services for more than 10 years now.

We have under our portfolio, state-of-the-art Lathe Machines and other machineshop/fabrication

Dear Esteemed Reader,

This is the third and last issue of our monthly news bulletin for the year 2009. The year has been marked with mixed feelings as the oil and gas industry experienced fluatuations in crude oil and gas prices occasioned by the global economic crisis. However, with some signs of recovery in the world economy and the oil price looking relatively stable, we can look forward to the year 2010 with cautious optimism.

To our numerous subscribers/readers, we say "Merry Christmas" in advance and best wishes for a properous New Year.

Cheers!

Casimir Maduafokwa
President/CEO

News Highlights

TECON's recently acquired brand new mobile land rig set to depart North America for Nigeria.

All arrangements have been put in place for the rig pic shipment of Tecon's brand new mobile drilling land rig to Nigeria. The purpose-built 1000HP Mobile Land Drilling Rig is expected to arrive Nigeria in the first quarter of 2010. The rig comes with 250 ton Tesco Hydraulic Top Drive System, and is fully equipped with skidding capability and other instrumentation/electronics systems to ensure efficient and safe operations.

This latest addition is part of Tecon's growth and expansion strategy and will help position the company as a major drilling & workover services contractor.

For more information about this unit, kindly contact us at tecononline@teconoilserv.com

TECON aims to become the largest local supplier of rental tubulars (workstring & drillstring) in Nigeria.

With the recent acquisition of various pipes workstring and drillstring items from Suppliers in USA, TECON is geared towards becoming the largest supplier of these rental items in Nigerian Oil and Gas Industry and beyond.

Currently, the company has in stock wide variety of rental drill pipes, drill collars, heavyweight drill pipes, test tubings, washpipes, crossovers and other BHA items (stabilizers, hole openers, underreamers, etc).

Also in stock are various handling equipment for the tubulars. These include rotary hand slips, pneumatic power slips, elevators (single

hardware to meet your demanding needs.

Kindly contact our machineshop specialists at tecononline@teconoilserv.com to discuss your special needs.

Our Services

. Hydraulic Workover/Snubbing Services

. Drilling Rig Services

. Drillstring & Workstring Rentals

. Casing and Tubing Running Services

. Downhole Drilling & Fishing Tools Rental & Services

. Machineshop and Fabrication

. Jar Rentals, Servicing & Testing

. Workboat & Barges Rentals

. Pumping

. Filtration Services

For more information on any of these services, email us at tecononline@teconoilserv.com

Our Major Clients

slips

joint, center-latch, side doors, etc), manual tongs, mud buckets, saver subs, TIW valves, inside BOPs, pump-in subs, ram blocks, etc. All tubulars are inspected to international standards, meeting API RP 7G & DS-1 requirements.

To learn more about the tubulars and their specifications, contact us at tecononline@teconoilserv.com

African Oil & Gas News

Ebok well boosts reserves base to 78m bbl.

London-listed Afren Plc has reported that a fifth offshore rig appraisal well on the shallow water Ebok field offshore Nigeria has hit more oil and proved up the economic reserves base for the discovery.

Afren said the Ebok 5 well drilled with partner Oriental Energy Resources encountered a total gross oil column of 266 ft (81 metres) in D1 and LD-1E reservoir sands across a measured depth from 2,341 ft to 3,090 ft, (713 - 942 m) in addition to a further 54 ft (16.46 m) of gross oil pay in the D2 and LD1F reservoirs.

Altogether the well, drilled with the Transocean Adriatic IX jackup encountered a total of four oil-bearing reservoirs between 2,341 ft. to 3,090 ft.

"The Ebok-5 well results have exceeded pre-drill estimates, and provide an important additional calibration point for the amplitude model, which will assist in further appraisal and de-risking of the remaining upside potential in the Ebok - Okwok complex," stated Osman Shahenshah, Afren's chief executive.

And Alhaji Mohammed Indimi, chairman of Oriental, added: "Since Afren and Oriental established our partnership, we have grown the resources base on Ebok from a pre drill minimum economic field size of circa 25 million barrels to a current recoverable reserves base in excess of 78 million barrels. We look forward to further increasing our presence in the Ebok-Okwok area."
(offshore247.com, 17 Nov 2009)

Congo Viodo well comes good

Drilling offshore West Africa in Congo congo viodo Brazzaville has confirmed a new oil find on the Viodo field which will now move into conceptual development engineering.

Swedish independent Lundin Petroleum revealed that the Viodo Marine 4 well operated by London-listed Soco International hit hydrocarbons and flowed a 2,600 b/d of oil, plus 7 Mmcf/d of gas during two drill stem tests.

Lundin said the well - the fifth on and around the Viodo accumulation - will aid understanding of reservoir quality and fluid distribution and will be used with other well data, plus specially processed seismic to define reservoir quality distribution in the field.

"The results of this work will form the basis for future conceptual development studies and assessments of commerciality," stated Lundin today, which has a 18.75% interest in the Soco-operated block Marine XI licence area.
(offshore247.com, 23 Nov 2009)

ERHC Energy pursues investments in Nigerian oil and gas industry.

ERHC Energy says that negotiations are underway on potential investments that would expand the Company's presence in Nigeria's oil and gas industry.

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erhc

ERHC has signed a non-binding Memorandum of Understanding (MOU) with Circle Ltd. and Excel Exploration and Production Ltd. to negotiate investment in and acquisition of working interests in the Eremor Marginal Field (OML 46). The Eremor Field, which is located in shallow water off-shore Nigeria, was discovered in 1978. The discovery well, Eremor-1, encountered three oil and gas zones, the most prominent of which is the D-03 reservoir with 43 feet of net oil sand. It was re-entered for testing in 2005 with the D-03 reservoir testing 2,200 barrels per day of oil with API gravity of 22, a low gas to oil ratio and no water. Excel was awarded a 100 percent interest and operatorship of Eremor in 2003.

ERHC, through its locally incorporated subsidiary, ERHC Energy Nigeria Ltd., has also entered into a non-binding MOU with WellTest Integrated Services Ltd. to negotiate the acquisition of a controlling equity interest in WellTest. The company provides well testing, production engineering and procurement services to Nigeria's oil and gas industry.

To coordinate the Company's business development in the Nigerian and West African oil and gas industry, ERHC has opened its Nigeria liaison office at Oguda Close, Maitama, Abuja. The Company's wholly owned subsidiary ERHC Energy Nigeria Ltd. operates the liaison office.

"With considerable progress being made in the ongoing exploration campaign of our oil and gas interests in the Nigeria Sao Tome and Principe Joint Development Zone (JDZ), this is the right time to accelerate business development activities elsewhere," said Peter Ntephe, chief operating officer of ERHC. "These opportunities will begin the process of diversifying our portfolio of assets and accelerate the timeline for producing revenues. We are also investigating other exploration and production opportunities and will report progress to stockholders at the earliest appropriate time."
(scandoil.com, 25 Nov 2009)

Rig Count in Africa (slb.com). Click here

How Do Jackups Work?

Since the first jackup was built in 1954, jackups have become the most popular type of mobile offshore drilling unit (MODU) for offshore exploration and development purposes. In fact, there are hundreds of jackups stationed around the world performing drilling and workover operations in just about every environment.

One of two types of bottom-supported MODUs (the Jackup_1 other being the much less popular submersible rig), jackup rigs rest on the sea floor rather than float. The premise of a jackup rig is that it is self-elevating; here, the legs are stationed on ocean floor and the drilling equipment is jacked up above the water's surface.

Providing a very stable drilling environment, in comparison to other types of offshore drilling rigs, jackups can drill in waters up to 350 feet deep. Once drilling is required in waters that are deeper than the capabilities of a jackup, semisubmersibles and drillships become a more logical choice for exploration and development operations.
When their legs are not deployed, jackups float, which makes these types of MODUs quite easily transported from one drilling location to another. While some are capable of self-propulsion and do not need an outside source for movement, most jackups are transported via tug boats or submersible barges. While towing is easily performed, barges are the transportation of choice when the jackup needs to be moved quickly or over a longer distance.

Jackup Legs
Whether a jackup design involves three or four legs, there are two main types of legs that are used on jackups. The first incorporatesopen-truss legs into the design that resemble electrical towers. Open-truss legs are made of tubular

steel sections that are crisscrossed, making them strong, but lightweight.

Jackups can also have columnar legs made of huge steel tubes. While columnar legs are less expensive than open-truss legs to fabricate, they are less stable and cannot adapt to stresses in the water as well as open-truss legs. For this reason, columnar-legged jackups are not used in waters that measure more than 250 feet deep.

In addition to their legs, jackups are supported by two different systems of stabilization. Jackup legs are supported on the sea floor via either mats or spud cans.

A more logical choice for drilling environments that have soft floors,mat-supported jackups distribute the weight of the rig across the ocean's bottom, like a snow shoe. Usually shaped like an "A," mat supports are connected to the bottom of each leg of the jackup, ensuring that the rig does not punch-through the ocean's bottom.

Usually used on independent-legged jackups, spud cans are cylindrically shaped steel shoes with pointed ends, similar to a cleat. Spud cans are attached to the bottom of each leg, and the spike in the can is driven into the ocean floor, adding stability to the rig during operations.

Additionally, there are two types of elevating devices. Once the jackup is on location, the legs are lowered to the ocean's floor and the rig hull and drilling equipment is elevated well above the water's surface and away from any potential waves.

The first type of elevating device uses hydraulic cylinders equipped with moving and stationary pins. These cylinders extend and retract to climb up and down the legs of the jackup. The other type of elevating device employs a rack and two pinion gears that are turned to move the legs up and down.

Drilling Devices

Whichever type of leg that is used in the design, the legs of the jackup rise up through holes in the hull of the drilling rig. Here, a deck is used to support the drilling derrick and other equipment.

Jackup_2

There are two ways to mount the drilling equipment on the hull. The most popular design for drilling equipment is a cantilevered jackup. Here, the drilling derrick is mounted on an arm that extends outward from the drilling deck. With a cantilevered jackup, drilling can be performed through existing platforms, as well as without them. Because of the range of motion that the cantilever provides, most jackups built in the last 10 years have been cantilevered jackups.

The other type of jackup is the slot-type jackup, also known as a keyway jackup. Drilling slot jackups are built with an opening in the drilling deck, and the derrick is positioned over it. While exploration wells can be drilled with drilling slot jackups, the rig can also be jacked up over another smaller facility, drilling through its hull.

Source: rigzone.com

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