

AFRICA

- **Noble Energy** discovered multiple reservoirs containing oil and/or gas condensate during exploration drilling at the Diega prospect in Block I in Equatorial Guinea. Initial formation logs have identified 38 ft of net gas-condensate pay in the primary zone. A deeper untested feature was also discovered and contained 30 ft of net gas-condensate pay underlain by 37 ft of net oil pay.
- **Libyan National Oil Company** (NOC) reported an oil discovery by **Arabian Gulf Oil Company**, an NOC wholly owned company. Discovery well D1-NC129 is located in the Sloug Depression basin, 100 km south of Benghazi City and 25 km northeast of the Zueitina oil terminal in Libya. The well was drilled to a total depth of 8,500 ft. Tests confirm a flow rate of 2,780 BOPD and 0.326 MMscf/D.
- **StatoilHydro**, with partner **Sonatrach**, made a fifth discovery in the Hassi Mouina license in the Sahara desert in Algeria, northwest of the In Salah gas field. The existence of gas was confirmed in exploration well TNKW-1. StatoilHydro has a 75% interest in Hassi Mouina and Sonatrach has 25% interest.
- **Petrofac** started commercial production of gas and condensate from the Chergui field located on Kerkennah Island in Tunisia. **Petrofac Energy Developments** is the operator and has a 45% interest in the field, while **Entreprise Tunisienne D'Activitiés Pétrolières**, the Tunisian state oil company, holds the remaining 55%.
- **Sonangol** authorized **BP** and its coventurers to develop a series of deepwater oil discoveries in offshore Angola's Block 31. The Block 31 development program is based on a standardized development concept, which is intended to reduce cycle time, optimize capital, and maximize operating efficiency through standardized design, fabrication, and commissioning.

ASIA

- **CNOOC** made an oil and gas discovery at Bozhong(BZ) 29-5 in the Yellow River Mouth Sag of Bohai Bay. The wildcat BZ29-5-1, which was drilled on structure BZ 29-5 in the Yellow River Mouth Sag, encountered oil pay zones of 26.2 m. The well was drilled to a total depth of 1885 m, in a water depth of 21 m. During the drillstem test, the well was tested to flow 1,500 bbl of oil and 220,000 ft³ of gas per day.

AUSTRALIA

- **Inpex Browse** made a gas discovery in Australia's Browse basin. A 72-m gas column was found and a production test confirmed the discovery of gas and condensate. The Mimia-1 well was drilled in a water depth of 254 m and is located approximately 20 km northeast of the Inpex Browse-operated WA-285-P permit.

EUROPE

- **StatoilHydro** reported that first oil flowed from the Vilje field to the Alvheim floating production, storage, and offloading vessel located in Block 25/4 on the Norwegian Continental Shelf, north of the Heimdal field. StatoilHydro is operator of the field with 28.85% interest.
- **BG Norge** made an oil discovery on the Jordbaer prospect. The well was tested with an average oil rate of approximately 7,500 B/D. Exploration well 34/3-1S, located northeast of the Snorre field in the northern North Sea, was drilled in a water depth of 400 m. A sidetrack will be drilled to determine the resource potential of the Jordbaer Central fault compartment.
- **JKX Oil & Gas** announced a gas discovery in the Hajdunanas-1 exploration well in Hungary's Pannonian basin. The well was drilled to a total depth of 1166 m and encountered three productive gas-bearing intervals, two in Miocene Pannonian sands, and one in a Miocene volcanoclastic sequence. An 8-m perforated interval in the upper

zone of Miocene sand flowed at 3.8 MMcf/D; a 3-m perforated interval in the lower zone of Miocene sand flowed 3.9 MMcf/D; and a 6-m perforated interval in the uncemented, lined, 86-m Miocene volcanoclastic section tested at 5.9 MMcf/D.

- **Ascent Resources** started gas production at the PEN-104 well in the Peneszlek area of the Nyirsegy permits in Hungary. The production rate of the well is currently 48 000 m³ of gas. The rate will gradually increase to a target of 85 000 m³ per day. Ascent Resources holds a 45.23% interest in the Peneszlek project. Other partners are **DualEx** (37.5%), **Geomega** (8%), **Leni Gas & Oil** (7.27%), and **Swede Resources** (2%).
- **Nexen** made a discovery in the UK North Sea at Blackbird located in Block 20/2a, 6 km south of its operated Ettrick field. The well encountered 111 ft of net pay in multiple zones, was drillstem tested, and flowed at an average restricted rate of 3,800 BOPD. Nexen is operator of the well with a 79.73% interest, **Bow Valley Energy** has 12%, and **Atlantic Petroleum** has 8.27%.

NORTH AMERICA

- **Chesapeake Energy** and **BP America** announced that BP agreed to acquire all of Chesapeake's interests in approximately 90,000 net acres of leasehold and producing natural gas properties in the Arkoma Basin Woodford shale play for USD 1.75 billion in cash. The properties, which are located in Atoka, Coal, Hughes, and Pittsburg counties, Oklahoma, are producing approximately 50 MMcf of natural gas equivalent per day.

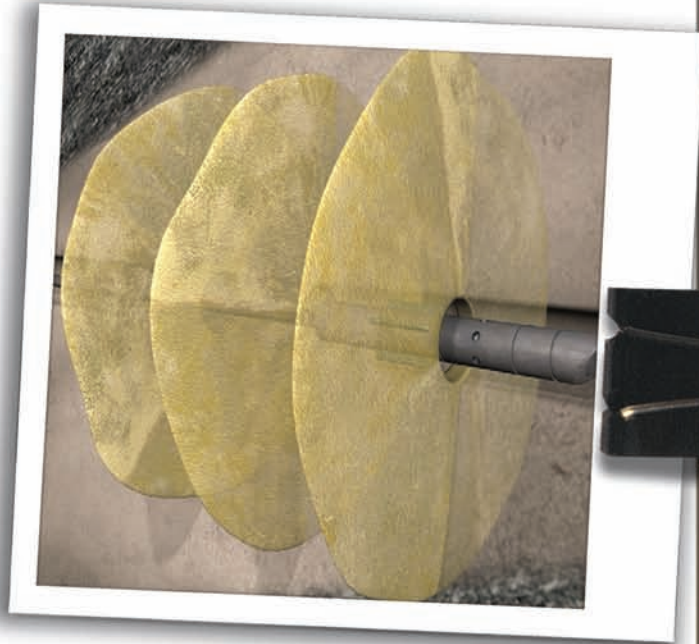
SOUTH AMERICA

- **Petrobras** made a discovery of good quality oil in the Espirito Santo basin. The discovery (4-GLF-23-ESS) is located in the Golfinho field, 60 km away from the city of Vitoria, in a water depth of 1374 m. The first estimates indicate a potential of 150 million bbl of recoverable oil. **JPT**

CobraMax® H service boosts gas production, cuts time and cost on horizontal wells by fracturing with coiled tubing

The Challenge:

British Columbia, Canada—A Canadian operator used Halliburton's CobraMax® H service to place multiple fractures in a horizontal well in the Montney shale formation. The treatment was successful and the well produced 160,000 m³ gas/day (5.6 mmcf/d) which was more than the operator expected. Completing the five fractures took five days and the treatment required three bottomhole assemblies (BHAs). The operator liked the results and requested Halliburton work on speeding up the process because each BHA change required eight hours of coiled tubing operations.



► *The new CobraMax H system achieves maximum conductivity in the near-wellbore region to overcome flow convergence issues common in horizontal wells.*

The Solution:

Halliburton made three improvements that dramatically increased the speed of CobraMax H treatments: an erosion-resistant BHA that could last for an entire operation on a well, an improved sand plug technique to isolate intervals and a new fluid design.

“I now have higher production with increased speed *and* lower cost from CobraMax H — quality, service and price without any tradeoffs.”

The Results:

The new CobraMax H system has now been used on dozens of horizontal wells in the Montney play. Seven zones fractured in 40 hours is now routine performance. Completion costs have typically been slashed by more than 40 percent. Safety and reliability have improved. And wells fractured with CobraMax H service are the best performers in the field.

For more information about how CobraMax H service can help reduce the time for multizone frac treatments and make your field more profitable, visit www.halliburton.com/reliability or e-mail stimulation@halliburton.com.

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