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Modern drilling rig in the Schönkirchen
region, Austria.

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Rethinking Interface Detection

Interface detection is not new for the petroleum pipeline industry. But it needs higher accuracy, combined with density measurement and product identification. This drives the operators to find instrumentation that offers more than just basic interface functionality like the solution that has been placed on a Malaysian pipeline. The performance is highly satisfying, and the savings comprise a substantial amount of money in slop oil treatment every year since the clamp-on ultrasonic flowmeter has eliminated the need for water separation buffers, and the operational efficiency of the distribution and storage facilities is greatly improved.

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Front Cover Photo: **SIEMENS AG, COMOS
Plant Engineering Software**

Using intelligent 3D models makes plant
engineering and operation safer and more
efficient. COMOS Walkinside is a powerful
3D virtual reality visualization software
solution which directly accesses all plant
information to display the current status of
a plant in visually appealing, realistic 3D
graphics. The COMOS Walkinside
Immersive Training Simulator (ITS) fully
immerses operators in their plants.
It simulates real-life scenarios and sup-
ports multiple avatars to test team perfor-
mance and communication.

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Gas plant Nyhamna

Landfall of the pipeline bringing natural gas from
the Ormen Lange field, offshore Norway

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Schizophyllan field test operating station at night

Together with BASF, Wintershall is developing
an organic fungus which can significantly improve
the recovery rate from certain reservoirs. The
fungus *Schizophyllum commune* develops a
biopolymer naturally; an organically produced
thickening agent. The substance thickens the
water which is injected into the deposit to en-
hance production. Since 2012, the first field test
with the product has been taking place in the
Bockstedt oil field in northern Germany, which
Wintershall has been operating since 1954. The
field test is expected to continue until the end of
2015 and will research the effect of the biopoly-
mer on oil production. The tankers deliver the
biopolymer from a BASF plant in Ludwigshafen.

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Front Cover Photo: **PGNiG SA, Warsaw, Poland**

Natural gas processing plant Odolanow, Poland

The plant processes nitrogen-rich natural gas
to high-methane gas, purifies and liquefies
helium, compresses methane gas, and
produces LNG.

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Modern drilling site in Germany with installed
noise barriers.

OIL GAS EUROPEAN MAGAZINE

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Hydrotreatment area at Cartagena Industrial
Complex, Spain

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Statoil ASA, Stavanger

*Installation of the Gudrun platform on the
Norwegian continental shelf*

The Gudrun platform, which was officially
opened on 19 August, is the first new Statoil-
operated platform on the Norwegian continental
shelf since Kristin in 2005.
(See also report on page OG 120)

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Rig VDD 370-1 drilling well Roemerberg H2 in Speyer, Upper Rhine Valley, Germany.

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A panoramic view of a drilling rig in the
El Borma zone, Tunisia.

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Freeport, Texas Verbund site

The Freeport Verbund site is the leading producer
of basic chemicals, intermediates and fiber prod-
ucts. Propylene from the steamcracker in Port
Arthur is used for the manufacture of acrylic acid,
a key starting material for numerous other prod-
ucts.

Since early April, the steamcracker has the capa-
bility to process ethane, found in abundance in
U.S. shale gas, as well as butane and propane.
(see also news on page 66)

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Currently, approximately 40% of world oil
production comes from mature fields with
tendency to increase with time. A significant
portion of operational expenditures in mature oil
fields is related to lifting costs including the cost
of maintenance of the Artificial Lift equipment.
Smart technologies and the ceramic sand
screen provided by ESK and RAG will bring new
solutions for Artificial Lift in oil and gas
production.

(see also article beginning on page 136)

OIL GAS EUROPEAN MAGAZINE

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Front Cover Photo: **MAX STREICHER GmbH &
Co. KG aA, Deggendorf/Germany**

GRTgaz is extending the gas transmission
network in France with the "Haute de France II"
pipeline project. MAX STREICHER GmbH & Co.
KG aA was commissioned with the pipeline
construction (DN 1200) between Corbie and
Cuvilly near Amiens. The lot covers a distance
of 51.7 km and is situated in the so called
"Bread Basket" of France. Countless opened
and closed road or river crossings had to be
executed.
In the area around the Somme river a new
trenchless construction method has been used.
It combined established horizontal directional
drilling (HDD) and microtunnelling methods.
Construction period: March–November 2013.

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