



TERRA INVADER 250CL: FIRST OFFSHORE JOB SUCCESSFULLY COMPLETED.



SWIFT 10 on its first location in the North Sea, 50km west of the coast of Den Helder, The Netherlands.

Successful start of offshore operation.

The Herrenknecht Vertical deep drilling rig "Terra Invader 250CL" mounted on the jack-up barge SWIFT 10 has successfully completed its first job in the North Sea for Shell. The innovative cantilever rig owned by the Dutch drilling contractor Swift Drilling has executed a subsea well abandonment in a depth of 3,200 meter. The operation started on 27 May and finished at the end of August 2011.

The next operation for the SWIFT 10 will be drilling a deviated development well with a measured depth of approximately 4,800 m for gas exploration.

NORTH SEA | THE NETHERLANDS

PROJECT DATA



Location:
North Sea, The Netherlands

Employment:
Oil and gas exploration



Drilling depth:
up to 6,500 m (slim well)

Project owner: Shell

Rig owner: Swift Drilling BV

Drilling Contractor: NAM

MACHINE DATA

Type: Terra Invader 250CL

Substructure: Cantilever

Max. hook load:

325mt (360sht)

Hoisting power:

1,200kW (1,600hp)

Power top drive:

800kW (1,000hp)

Max. tripping speed: 350m/h

Engineering co-operation.

The engineering and construction of the drilling unit took around three years. Offshore experts from Swift Drilling and engineers from Herrenknecht Vertical have been working together to create the basis for the construction of the light-weight and powerful drilling rig. The different components of the SWIFT 10 were then built all over the world and were brought together in the port of Rotterdam for final assembly in December 2010.

New standards in offshore.

The "Terra Invader 250CL" has been designed in line with operating and safety standards for offshore use in the North Sea. It sets new standards in terms of safe and efficient drilling and production operations due to the hydraulic components. The hydraulic cylinder hoisting system, for example, allows for particularly accurate and safe vertical drilling operations.

Please visit our booth at the following upcoming international trade shows:



SPE Offshore Europe 2011
6-8 September 2011, booth #4B160
in the German Pavilion (hall 4)
Aberdeen, UK



Offshore Technology Conference Brazil
4-6 October 2011, booth #1410 (pavilion 1)
Rio de Janeiro, Brazil

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HANDS-OFF OFFSHORE OPERATIONS.



Automated pipe storage area with pipe feeder.



Hydraulic pipe handler with drill pipe.

Worldwide unique pipe handling system.

All deep drilling rigs made by Herrenknecht Vertical are designed to realize the maximum degree in hands-off procedures. This reduces the risk of accidents on the one hand, and personnel costs on the other. For the "Terra Invader 250CL" this can be achieved primarily by the automated pipe handling system.

The worldwide unique pipe rack provides the appropriate rods or casing on the catwalk at any time. The pipe handler picks them up and brings them directly into the well center position where the hydraulic hoisting system takes over. This means that the rig can be operated safely and with fewer personnel than conventional rope installations.

The control of the pipe handling system is semi-automatic and the system is operated by the driller or pipe handling operator in from the driller's cabin. The operations are documented in the electronic pipe book.

The complete pipe handling system is designed to handle drill pipes range 3 in super singles, drill collars and casings. The pipe handler has been developed for picking-up and laying-down tubulars with a diameter of 2 7/8" to 24 1/2". The maximum lifting capacity is 3mt (3.3sht).

Safe and efficient drilling operations.

According to IADC Lost Time Incident (LTI) statistics, almost 50% of all LTIs happen on the rig floor and about 15% during trip in and trip out procedures. The high grade of automation and hands-off operation on the "Terra Invader 250CL" avoids manual intervention and therefore minimizes the risk of LTIs to an absolute minimum. In general, no personnel have to work in dangerous areas.

Due to the high automation of the drilling processes, the number and costs of personnel can be reduced significantly for the whole barge: With only 50 to 60 crew members to operate the complete platform, the SWIFT 10 operates with a 50% lower headcount than a conventional drilling rig. With its innovative pipe handling system and its reduced crane movements, the SWIFT 10 is able to adapt to the varying conditions in the southern part of the North Sea.

HERRENKNECHT Vertical GmbH
Im Heidenwinkel 5
D-77963 Schwanau
Phone + 49 7824 302 1300
Fax + 49 7824 302 1330
info@vertical-herrenknecht.com

www.herrenknecht-vertical.com



For further information please contact
sales@vertical-herrenknecht.de