



# TMK UP CENTUM

100% Connection Efficiency

PRO SERIES



GREENWELL®

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# TMK has launched production of casing pipe with unique TMK UP CENTUM threaded connections

The pipes were successfully run at the Salmanovskoye (Utrenneye) oil and gas condensate field.

**TMK UP CENTUM** is the latest development of TMK, which provides for reliable operation in ultra-deep directional and horizontal wells, rotation during cementing and casing drilling. This is a high-torque and gas-tight connection for the most difficult operating conditions. TMK has shipped the first commercial lot of the TMK UP CENTUM connection for the Russian project.

## Field Description

The Salmanovskoye (Utrenneye) field located in the northern part of the Gydan Peninsula and partly in the offshore area of the Obskaya Guba, in proximity to the South Tambeyskoye field, was discovered in 1980. In terms of recoverable reserves, it is the largest of the fields discovered on the Gydan Peninsula and consists of 34 deposits, including gas (16), gas condensate (15), oil and gas condensate (2), and oil (1). As per SEC standards, the proven reserves of the field amounted to 259.8 billion cubic meters of gas and 9.6 million tons of liquid hydrocarbons as of the end of 2014.

## Geological Conditions

The most difficult drilling interval was in the range from 1238.8 m to 3172 m with AHFP zones, which require not only high-collapse pipes, but also a connection that is as strong as the pipe body under conditions of combined stress of the column and absolutely gas-tight. It was planned to run the production column from the well head to the bottom, with a total length of 3170 m.

## TASKS

- Ensure gas tightness of the production column 245 mm in complex geological conditions of the project

## SOLUTION

- Delivery of pipe with TMK UP CENTUM premium connection  $\text{Ø}244.48 \times 11.99 \text{ mm}$

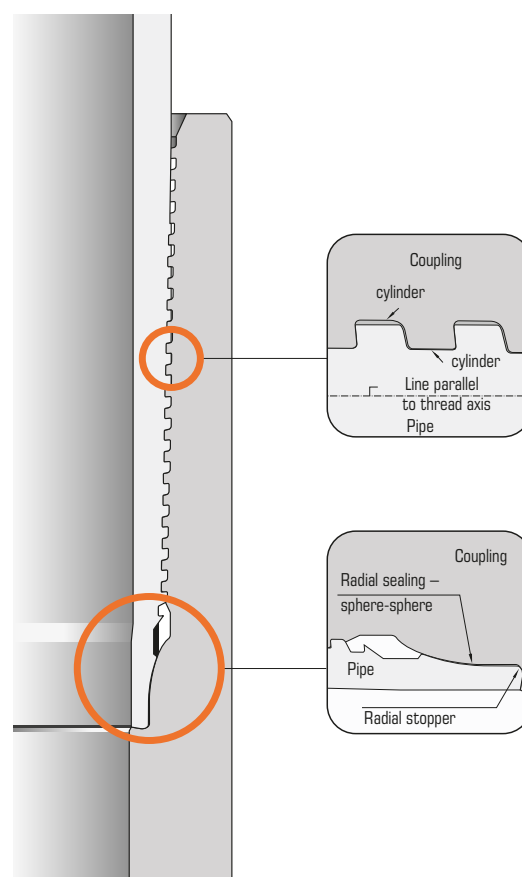
## RESULT

- The column is gas-tight. 268 pipes were run. The running rate is 12 pipes per hour.

Given the high collapse pressure, tension, unstable areas liable to move and potential need to rotate the casing, it was decided to use the casing with TMK UP CENTUM threaded connection, which under laboratory and bench tests had demonstrated 100% 100% tension and compression efficiency for internal/external pressure, bending and high temperatures. The connection is ISO 13679 CAL IV qualified for the highest level of complexity. In addition, during the construction of the well, 426x12.0 mm surface casing was used with the premium connection TMK UP MAGNA, cemented to the well head, 613.2 m long, and intermediate string 339.7x12.19 mm with TMK UP FMC premium connection, cemented to the well head, 1238.80 m long.

### Result

The TMK UP CENTUM 244 x 11.99 mm column was run under the control of TMK supervisors. The connection ran stable during the RIH operation, even in conditions of strong side wind and misalignment problems. The deep setting capability and optimum number of turns ensured a safe and quick assembly of connections. The assembly tightness and correctness were monitored through the torque records based on the make-up diagrams. The average running rate was 12 pipes per hour. The assembly speed of one connection was 45 seconds. The total number of pipes run in hole was 268. The column was pressure tested at 62 MPa with holding time of 30 minutes. The pressure drop was 0 atm. The column proved gas-tight.



Профиль резьбы

You can find more information about premium thread connections at: [www.tmkup.com](http://www.tmkup.com)