



HORIZONTAL DIRECTIONAL DRILLING

NATURAL GAS STORAGE FACILITY JEMGUM
Germany



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Client: WINGAS Group/GASCADE/ASTORA

By order of the Joint Venture STREICHER and Bohlen Doyen DrillTec executed three horizontal directional drillings DN 900 in the Natural Gas Storage Facility Jemgum. In only two months, DrillTec completed three drillings with a length of 1,528 m, 1,663 m and 1,716 m in an ecological sensitive landscape protected area. For this operation, two new drilling rigs constructed by STREICHER Drilling Technology were used at the same time. Besides the short project period, also the changing geological conditions, long access roads and heavy rainfall were challenging for the project team. With 33 caverns, one of the largest Natural Gas Storage Systems in Germany has been developed in Jemgum. The capacity of approx. 2.2 bn Nm³ is sufficient in order to ensure the yearly natural gas supply for more than one million households in Germany.

Project details

Client	WINGAS Group/GASCADE/ASTORA
JV-Partners	STREICHER, Bohlen Doyen
Scope of work	Crossing of landscape protected area
Location	Jemgum, Germany
Lengths	1,716 m, 1,663 m, 1,528 m
Diameter	Well 48", pipe DN 900
Material	L485 MB
Geology	Moor, sand, clay, gravel, alluvial sand flood areas/river estuary Ems
Equipment	2 x 350t HDD Rig
Contract Period	Mid July – Mid September 2012
Contract Value	3.1 million EUR



Challenges

- Short construction period
- Changing geological conditions
- Drillings in ecological sensitive areas
- Long access roads
- Heavy rainfall during civil works

Location:
Jemgum, Germany

