

## **NATURAL GAS STORAGE FACILITY JEMGUM** Germany



## 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.

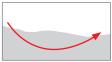
| Project details |   |
|-----------------|---|
| Client          | WINGAS Group/GASCADE/ASTORA   |
| JV-Partners     | STREICHER, Bohlen Doyen   |
| Scope of work   | Crossing of landscape protected area                                  |
| Location        | Jemgum, Germany   |
| Lengths         | 1,716 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



Crossing of landscape protected area

