



Weatherford®

REAL RESULTS

Completion Package Enhances Reliability and Enables Higher Injection and Production Rates in Central European Gas-Storage Wells

Objectives

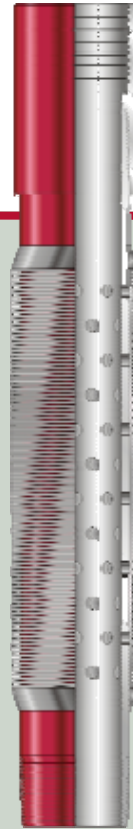
- Facilitate the completion of an onshore openhole gravel-pack project by supplying top-to-bottom completion equipment and services for the Matzen and Schoenkirchen gas-storage fields in central Europe. The project included openhole gravel packing and completion of four newly drilled wells. Three old wells would also be re-entered. All work was to be performed in collaboration with OMV pumping services.

Results

- Weatherford provided an all-in-one package, including a sandface completion with a Dura-Grip® screen system, Model 4P gravel-pack system, Uniset® flow control system, and Optimax™ tubing-retrievable subsurface safety valves.
- To meet the operator's requirements, a new 9 5/8-in. x 6-in. x 4 3/4-in. BlackCat™ step-bore packer and a 7-in. x 4-in. BlackCat packer for 20-lb casing were engineered and built.
- All equipment was tested and sub-assembled before it was shipped.
- Four 9 5/8-in. systems and three 7-in. systems were installed and tested to the operator's specifications within two months. All gravel packs were placed at +/- 120% of the calculated volume with clear sand-out pressures.

Value to Client

- Weatherford's fast turnaround and error-free operations enabled the operator to achieve higher injection and production rates and realize a greater return on investment.
- Weatherford's involvement enabled the operator to focus on improving well and pump design and enhancing storage capacity through better reservoir contact.
- There were no reported safety or lost-time incidents.



Weatherford's *Dura-Grip* screen system was part of an all-in-one completion package and services for two gas-storage fields in Austria. The results enabled the operator to achieve higher injection and production rates while realizing a greater return on investment.

Client
OMV

Location
Austria

Fields
Matzen and Schoenkirchen

Depth
1,640 to 3,936 ft (500 to 1,200 m)

Products/Services

- *DuraGrip* screens with tell tale device
- Model 4P gravel-pack system with *Black Cat* production packers
- Locator seal assembly
- *Optimax* tubing-retrievable subsurface safety valves



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