Fields of work

Comprehensive services from one hand

- Planning, design, tendering, installation, commissioning Ð and operational support:
 - UGS facilities: depleted fields, aquifers, caverns
 - Oil- / Gas fields
- Geological exploration and Reservoir Model Generation: €
 - Incl. Laboratory analysis of geological, petro-physical • and reservoir engineering properties
- Field development €
- Contruction supervision Ð
- Commissioning support €
- Operation monitoring and optimization €





Contact

DBI Gas- und Umwelttechnik GmbH

Department Gas Production and Gas Storage Karl-Heine-Str. 109/111 D-04229 Leipzig / Germany



Dipl.-Chem. Udo Lubenau

DBIGUT

Manager of Gas Production and Gas Storage Karl-Heine-Straße 109/111

Phone: (+49) 341 2457-160 (+49) 341 2457-136 udo.lubenau@dbi-gruppe.de



• www.dbi-gruppe.de www.dbi-gruppe.de/gasspeicherung



DB

Gruppe



Gas Production and Gas Storage

Energy with Future. Environment and Responsibility.

Construction, operation and decommissioning of underand production of gas and oil of reservoirs



www.dbi-gruppe.de

Underground gas storage

We offer engineering services for the construction and optimization of cavern and porous UGS facilities.

- Determination of effective operating pressures
- Determination of storage capacities for different storage media: natural gas, H₂, CO₂ etc.
- Integrity assessment of the overburden incl. laboratory investigations
- Analysis and modelling of flow processes in the reservoir
- Optimization of storage operation, control of water production
- Design and supervision of leaching and first-gas-filling
- Design, supervision and evaluation of leak tests
- Decommissioning with maximum WGV and CGV withdrawal as well as planning for subsequent use or abandonment







Gas and oil reservoirs

DBI's services include the development of new fields and the maximization of efficiency of old fields

- Evaluation of geological and geophysical exploration data
- Evaluation of well tests
- Laboratory investigations of petrophysics and fluid properties
- Complex 3D Geo Modelling and 3D-reservoir Simulation
- Enhanced Recovery for oil and gas

Well integrity

- Design, material selection
- Mechanical-hydraulic-thermal stress analysis
- Decommissioning technologies

Well completion

- Reservoir completion design:
 - Open hole and cased hole completion
 - Well inclination and trajectory
 - Sand control systems and requirements
 - Simulation of reservoir completion performance / integrity
 - Production optimization (single or multi-zone)
- Upper completion design:
 - Artificial lift systems (gas lift, electrical pump etc.)
 - Single and dual completions
 - Tubing isolation (packer or equivalent)
 - Annular production and injection
 - Optimization of tubing size
 - Well head
- Well test analysis:
 - Well pressure interpretation
 - Productivity tests
 - Reservoir parameter evaluation





Temperature course/development, tensions (f.l.t.r.)