



Solution Mining Experts

Gas storage maintenance

Integrated Project Management

Well Maintenance & Interventions

Well Engineering & Drilling Management

Cavern stability & Cavern convergence analysis

Borehole stability, fault slip analysis & subsidence analysis

**Leading solution mining well engineering
and drilling management experts**

Delivered over 500 well interventions and workovers on salt-cavern wells

Well Engineering Partners (WEP) your partner in value creation, since 1996

Geothermal Energy | Solution Mining | Oil & Gas | New Technology

Solution Mining Projects

Solution mining and salt cavern gas storage projects often require complicated and challenging well designs and interventions in order to safely operate salt caverns in the (deep) subsurface. The specifications and design of a salt cavern and well are of critical importance to safely and effectively operate solution mining and gas storage facilities in a sustainable manner. Throughout the lifetime of a well and cavern, WEP offers operational support, and studies related to geomechanical aspects such as salt squeeze and deformation, formation stress evolution, and surface subsidence analyses. All the while considering constantly changing cavern operating parameters, cavern development, and abandonment strategies.



Our Services:

Integrated Project Management (IPM)

Well & Intervention Design

Procurement & Tendering

Abandonment Design

Wellsite Supervision

Execution Support

Feasibility Studies

Work Programs

HSE Systems

Geotechnical Analysis & Studies

Cavern Operations Risk Analysis

Surface Subsidence Analysis

Key facts WEP in Solution mining:

- Delivered world's deepest and longest solution mining wells (3000mTV >4900mMD)
- Designed and executed world's deepest cavern abandonments (>2500 mTV)
- Engineered and managed salt cavern projects with depths ranging from >3000m
- Decades of experience with cavern operations and related wells & drilling engineering
- Leader in well engineering solutions for deep solution mining in the Netherlands

Key facts WEP:

- Founded: 1996
- Employees: 30 engineers, ranging from BSc to PhD
- In-house expertise: well- & drilling engineers, project managers, wellsite engineers, drilling supervisors and managers, and geotechnical engineers
- Extensive network of associated consultants
- Executed over 500 well interventions and workover operations on salt wells
- Operating branches: geothermal energy, solution mining, oil & gas, and new technologies
- Operating area: worldwide (e.g. Netherlands, Germany, France, Brazil)

Well Engineering Partners (WEP) is an expert in salt-cavern well engineering, geomechanical engineering, and well intervention- & drilling management, having provided long-term and continuous well engineering support to several major Dutch solution mining operators since 1996. WEP is experienced in performing and supporting complex rock mechanical studies, developing salt convergence and production models, and identifying well lifetime technical requirements for sustained safe operations. WEP has extensive experience in performing snubbing and coiled tubing workover operations in challenging high pressure, high temperature conditions. We are able to fully support our clients with engineering solutions and manage well operations throughout the lifetime of caverns, from feasibility studies until final abandonment.

Are you looking for experts in salt caverns or general well engineering and operations management? WEP is your partner!

Our team is looking forward to discussing the opportunities of your project with you and to working together on a sustainable future.



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