

0 Abstract

Large volumes of gas are stored under high pressure in salt caverns. The main conditions required for safely storing gas in salt caverns are the integrity of:

- the salt in the region of the cavern,
- the cavern wells including completions.

The suitability of a salt formation (salt dome, bedded salt) is assessed during the exploration phase in a location-specific way by drilling cavern wells. This paper deals with the cavern wells and their equipment which make it feasible to:

- seal off the borehole against the various rock formations
- prevent the escape of gas at the surface and
- enable the highest production rates possible.

The intention of this technical paper is to provide an overview on completion components and alternatives for gas storage caverns as they are realised in Germany and to give an outlook on possible future developments in completion technology which suit the requirements for high gas production rates.