



# SAFEGUARDING A BLOWN OUT WELL

## Gas storage well operation in Berlin

### OBJECTIVE

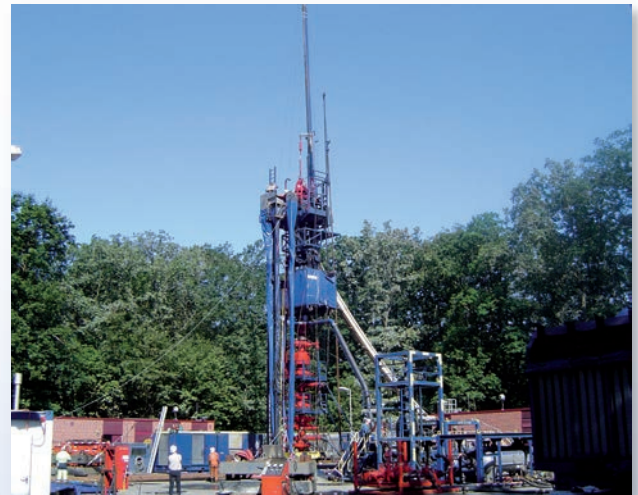
This was a gas storage well that supplied gas to the German capital, Berlin.

A down-hole explosion occurred during regular maintenance, which caused the well to blow out.



This explosion caused major damage to the completion, casing and well-head.

The primary objective was to safeguard the well by changing out the well-head and gaining access to the reservoir.



### EXECUTION

- BPC coordinated the entire project.
- The completion was found shattered in pieces, but access to the required depth was achieved.
- Well-head was changed out and the well was secured.

### LOCATION

The well site is located on the outskirts of Berlin close to residential areas.

Therefore maximum precautions had to be taken to ensure the safety of the nearby residents:

- Wells located in 'cellar' underneath location.
- Special substructure manufactured to ensure no well-head loading.
- Deluge system and fire monitors rigged up in case of fire.
- Contact with fire brigade on daily basis.
- Location set-up so that all planned activities could be carried out.
- Rig set-up so that all scenarios could be handled safely.