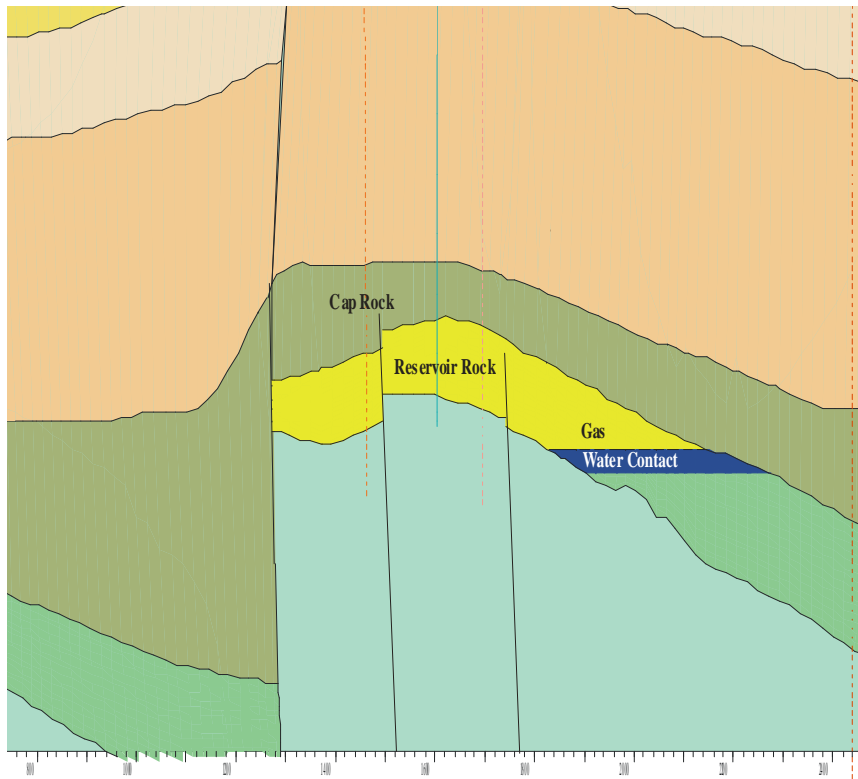


Underground Gas Storages–Maximum Operating Reservoir Pressure (Pmax)
– Tests and Approval (An Proposal of a Short Questionnaire)

Reporteur: Mr. Pavel Cizek, Czech Republic
pavel.cizek@rwe.cz



Higher reservoir pressure than hydrostatic in the porous UGS bring higher storage capacity and higher performance of the gas delivery

Higher reservoir pressure than hydrostatic in the UGS bring higher probability of

- a) gas leakage by damage (fractured) sealing cap rocks
- b) drive gas-water contact over spill point
- c) gas leakage along insufficient leakproof well-rock contact

UGS to Europe and Adjacent Area			
Country	Czech Republic	Czech Republic	
Name of UGS	Dolní Dunajovice (real example)	Haje (real example)	
Initial Reservoir Pressure (bar)	110	102	
Maximum Allowable Storage Pressure (bar)	125	100	
In situ Stress Tests used for Pmax Approval	No	Yes	
Fracture Gradients used for Pmax Approval	No	Yes	
Capillary Threshold Pressure Tests used for Pmax Approval	Yes	Yes	
Empirical Approach used for Pmax Approval	Yes	No	
Planned Improvement of Maximum Allowable Storage Pressure Up To (bar)	130	Yes	