

Abstract

This work is devoted to present the experience of Gas CO₂ Storage in Algeria. The study was done to optimise the best reservoir for Gas CO₂ Storage. The risks name for the two Fields considered Field I & Field II, they are: Permeable Zone in Seal, Earthquake Induced Fracturing, Leakage - Undetected Fault, NW Fractures corridors (that linear features are connected fracture corridors and, with current injection plan, could propagate through seal allowing CO₂ into potable aquifer), Injection Well Leakage (With increasing pressure an inadequate barrier in wellbore material provides a leakage path to potable aquifer or surface), Old Well Leakage (Inadequate completion or chemical alteration of wellbore material provides a leakage path to potable aquifer or surface), Exceeding Spill-Point (Restricted access to pore space within structure causes CO₂ flow below spill point, leaking up-dip to unknown resource potential) and Migration Direction.