

Mineral Trapping as a Mechanism to Seal Leakage Pathways

Scientific Achievement

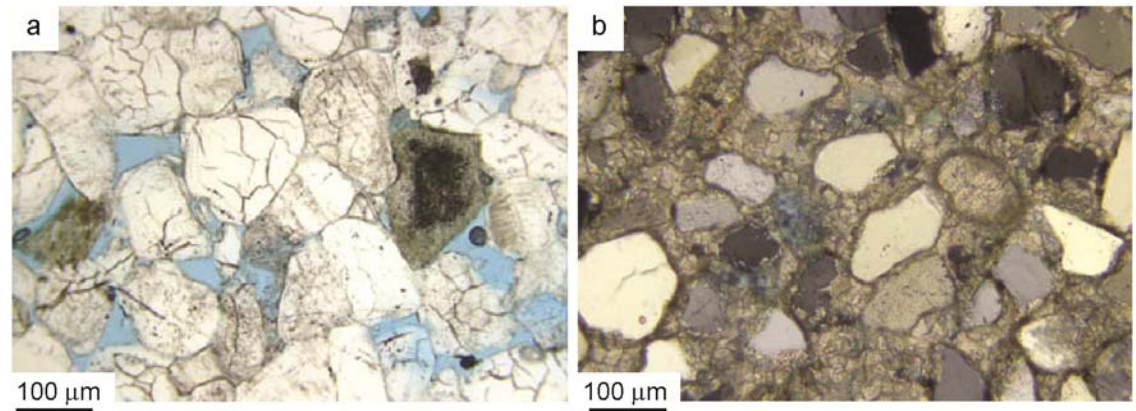
Field observations at the Little Grand Wash fault in Utah suggest that calcite precipitation results in shifts in preferential flow paths of the upward migrating CO₂-saturated-brine. The calcite precipitation is both the result and cause of spatial and temporal shifts in preferential flow paths of upward migrating CO₂-saturated-brine.

Significance and Impact

Mineral trapping may be a mechanism for self-sealing of leakage pathways for CO₂.

Publications

none



Petrographic thin section of reservoir sandstone with (a) open pore space (blue) and (b) pore space occluded by calcite mineral cement.

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