

## Experiment on the influence by supercritical CO<sub>2</sub> at the casing cement - sandstone interface

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CO<sub>2</sub> geological storage is the one of the methods to prevent the global warming. In this method, the most important thing is to prevent leakage of CO<sub>2</sub> from the underground reservoir. If CO<sub>2</sub> leaks to the surface, it may go up along the casing cement - sandstone interface due to the degradation of the casing cement. Thus we have to understand how CO<sub>2</sub> affect the casing cement - sandstone interface. The present work is intended to know what kind of chemical reactions are caused at the casing cement - sandstone interface when exposed to supercritical CO<sub>2</sub>.