

FIELD CASE

Bulk Scale Analysis (BSA)* Confirms no Scale – Save Millions of USD in Squeeze Operations

The Problem

An operator in Norway squeezed wells based on the potential for calcium carbonate deposition. The preventive strategy was selected because any scale removal operations would be costly.

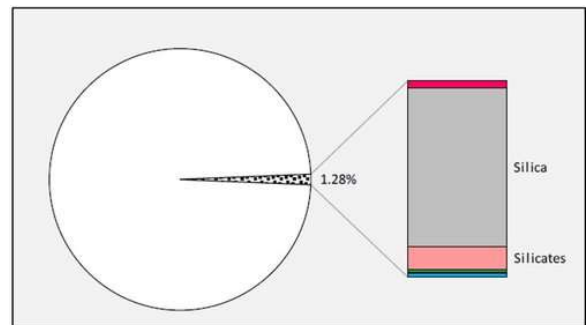
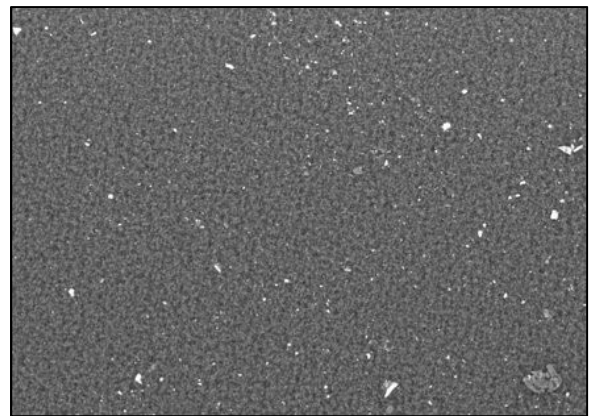
The Solution

Bulk Scale Analysis (BSA) analysis was mobilized to determine the actual presence of scale in the produced water phase of a producing oil well.

The Result

The results showed that the scaling tendencies are lower than estimated, and no wells have been squeezed since BSA analysis of the produced water phase was introduced.

The operator has now changed its strategy from squeezing every 6 months, to frequently monitoring with BSA. This case alone has saved the operator millions of USD.



SEM image (top) show scale particles on the filter, and below the result of the BSA. No dangerous scale is deposited in the well.

Location

North Sea, Norway

Well Type

Offshore oil

Scale Protection Service

Bulk Scale Analysis (BSA)