

How to Use Waste Water from Aging Wells: The Case of the Reeds Bed in Nimr Oil Field in Oman: Unlocking the Hidden Treasures in the Weathered Zone

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Abstract

The Weathered zone (WZ) is a complex outcropping interface well investigated by oil companies but still remains a seismic blind zone, up to approximately 400 meters.

In 2007, Shell oil company - in Rijswijk -Holland – collaborated with RTI to investigate the potential presence of arable soil to develop the Nimr Reed Beds program in Dhofar desert, South of Oman.

Combining various high-resolution satellite and relevant ancillary data, astonishing opportunities of the WZ had been discovered, but never been published. The presence of potential arable soil beneath the Dhofar desert could turn the area into the most innovative water treatment and carbon capture project ever built.

How? By using the formation water from aging oil wells for soils irrigation instead of reinjecting it a high cost, teaming up with Bauer for the construction of the Nimr Reed Beds project.

Since then, major improvements on remote identification of buried soils have been made by RTI, saving significant efforts, time, and money for optimal planning and sound execution of Corporate Social Responsibility projects through soils revitalization leading to carbon capture opportunities.