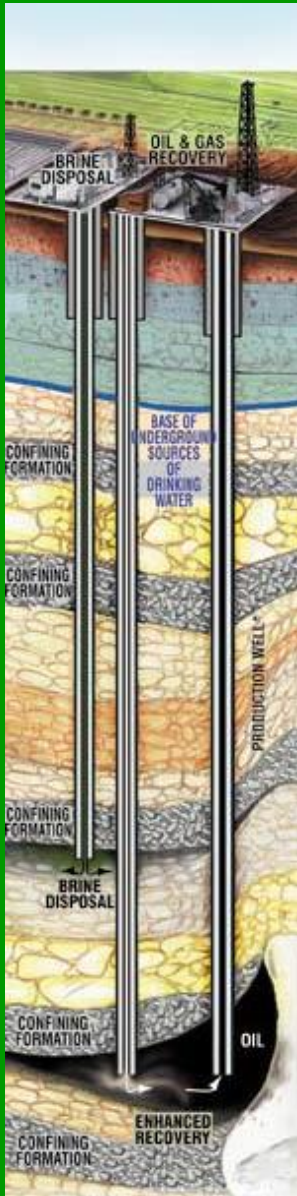


MALCO

Green

5500

Saltwater Disposal Well Treatment



*EARTH
FRIENDLY*

- Economical
- Efficient
- Environmentally Friendly
- More profits for you



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MALCO

Green

5500

separates thick emulsions.

Within 72 hours all the solids fall out of the emulsions leaving clean pipeline grade oil and saltwater.

The Produced Saltwater is cleaned of oil down to the molecular level. The result is clean pipeline grade oil and saltwater that does not carry hydrocarbons down hole.

If the hydrocarbons never go below surface your head pressure will not rise. As the clean saltwater is injected subsurface it carries our treatment to clean the walls of the well making water flow into the capillaries more efficient and the well head pressure will drop to manageable levels.

Our treatment is not a chemical nor is it harsh to the environment. It is earth friendly and can be used without fear of contamination.

**EARTH
FRIENDLY**



Our partners have seen a reduction in SRB and H₂S with the introduction of our treatment.

Most SRBs are converted to NRBs with our process of providing nitrate instead of sulfate as the final electron acceptor.

**More Effective & Costs
Less than
Environmentally
Dangerous Chemicals**

- *Not a chemical (We use a viable microbial treatment method)(the only earth friendly solution for saltwater/hydrocarbon separation)*
- *Breaks up difficult Emulsion (in 72 hours instead of 60 days, with no harsh chemical treatments)*
- *Reduces Head Pressure(works subsurface to release hydrocarbons from well bore causing easier subsurface water distribution)*
- *Eliminates chemical bill(no need for harsh/dangerous chemicals)*
- *Increase profits (more oil reclaimed the more oil brought to the market)*

Produced Water Deoiling

By: James Stempleman – Wed Mar 16, 10:39 am ET

Improving separation efficiency

- Coalescence occurs at the molecular level under great pressure.
- Deoiling produced water has been the bane of the industry.
- Returning produced water subsurface has always been challenging.

Application of deoiling hydro cyclones is potentially marginal due to difficult fluid characteristics. Existing systems do not meet current legislation, and stretch performance targets, or else require excessive chemical dosing to meet performance targets.

MALCO Green 5500 treatment provides an earth friendly separation procedure, deoiling produced water with remarkable efficiency with non-pathogenic Microbics.

Testing MALCO Green 5500

MALCO Green 5500 treatment eliminates reliance on water clarifier chemicals and/or hydro cyclones. MALCO Green 5500 is not a chemical.

Concept

- Introduce a treatment that eliminates the need for expensive hydrocyclone and chemical dosing where the application of deoiling hydrocyclones is potentially marginal due to difficult fluid characteristics.

The Benefits

- Reduce cost
- Reduce labor
- Improve efficiency
- Recover a greater volume of petroleum for market

We tested produced water at the injection point of a Salt Water Disposal well in North Texas. The well under test has a daily volume of 5,000 barrels through put.

The sample had been processed through the standard separation regiment (water knock-out/settling) and continued to display oil at the molecular level.

The sample was treated with MALCO Green 5500 and was found to contain .0093 oz of oil remaining. The produced water sampled here is an example of the normal procedure of sending supposed clean/deoiled saltwater down hole with oil remaining in a coalesced condition.

Using a matrix provided by the MALCO Green 5500 staff it was determined that the well under study was missing the recovery of 2.90625 barrels of recoverable oil each day with a well volume of 5,000 barrels daily through put. *More salable oil can be recovered.*

Result

- Efficient deoiling
 - Cost effective
 - Less labor intensive
 - Recovered more sellable oil
 - Earth friendly
-
-

When you continue to inject oils with saltwater into the capillaries they are restricted and pressure to force oil from the formation is compromised.

You will see an immediate drop in wellhead pressure using



State Of The Art,
ECO Friendly Treatment



NO need for
Harsh and Expensive Chemicals:
NO Costly
Heat Separation Treatments:
NO Oil Reclaimer
Hauling Away Your Profits:

- Economical
- Efficient
- Environmentally Friendly



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