

SEPARATION THAT MAKES SENSE™



Overview

This Texas commercial salt water disposal site receives and treats an average of 2000 bbls per day of produced water. Prior to testing, a single gun barrel tank, time and gravity was utilized as a method of separation before removing any excess oil. The efficiency of this operation is considered standard or average within the industry.

Location Description	Texas
Type of Operation	Commercial Salt Water Disposal
Average bbls per Day	2000 bbls (Prior to Study)
Gravity Of Oil	50 degrees
Equipment	Gun Barrel
BS&W	1% (Prior to Study)
Unit Size	4" Separation Enhancer

Challenge

This site was unable to extract and recover variable percentages of oil before discharging. The site owner wanted to additionally improve the quality of the discharged water to reduce or eliminate any associated fines.

The site owner was seeking alternative means of separation to improve efficiency and increase production.

Solution: 4" Separation Enhancer

The operator reported back after 60 days of use, that the Separation Enhancer increased production by 31%. He noted, the retention time in the settling tank was also dramatically reduced. The 31% increase attributed to an average of 80 additional bbls of oil per month.

- Increased production by 80 bbls per month
- Decreased retention time
- Improved production controllability and consistency
- Reduced BS&W – less than 1%
- Cleaner discharge water

Conclusion

With the use of the Separation Enhancer this site increased production and efficiency to levels never experienced before. The Separation Enhancer enabled the site to become more consistent, producing greater quality and volumes of oil, in less far time. With minimum site modifications, the Separation Enhancer directly increased the sites profitability, while reducing excess waste and emissions.



SAME SITE MORE PROFIT

Increased Average 31% Oil Recovery

This site increased production by 80 additional barrels of oil per month. In 2012, The average barrel of oil valued at \$111. in 2012.

80 x \$111 = \$8,880 Monthly Profit Increase



Lower Operating Costs

Eco1st Separation Enhancers are made part of normal refinement and separation processes. The high quality construction of the Separation Enhancer makes it a reliable tool, that provides long term, consistent results. The Enhancers adaptable design gives the end user flexibility when installing the system to any pre-existing sites in operation. Once installed, the Separation Enhancer utilizes the energy of the flowing fluid and operates without the use of a power supply or moving parts; offering a maintenance free, cost effective solution.



CLEAN, GREEN & SUSTAINABLE

The *Eco1st Separation Enhancer* is a 100% eco-friendly product. Our systems ionize all fluids and solids throughout the pipeline. This causes the fluids and contaminants to no longer bond together but separate based on their specific gravity. In most cases, chemicals and other processes are no longer necessary to achieve complete separation.

Like this site, water samples generally indicted less than 1% or non detect oil carry over before discharging.

