



INDUSTRIAL TANK SOLUTIONS

CASE STUDY

Traditional tank cleaning was impossible for a 140' crude oil tank with an external floating roof because of a 9-foot sludge heel. Automated tank cleaning saved the clients millions.

A 9-FOOT PROBLEM

With a 9-foot sludge heel, the external roof of the crude oil tank could not be safely landed for traditional tank cleaning.

THE PROCESS

When the Cleaning Gets Tough, The Tough Get Cleaning

- ✓ SafeTap® process to cold-cut holes for top-entry single nozzle sweepers (TE-SNS)
- ✓ Use the remaining liquid to slurry and shear sludge
- ✓ Safely land roof 48 hours after project start
- ✓ Generate nitrogen gas onsite for a safe cleaning
- ✓ Fluidize the sludge transfer & recovery
- ✓ Water wash to remove residual hydrocarbons and eliminate volatile compounds
- ✓ Verify the safety of the environment and open manways

IN SAVINGS

\$3.95 MILLION

PRODUCT RECOVERY & REPURPOSING

100% of 40,000 barrels of recovered oil

SHORT LEAD TIMES, QUICK RESULTS

Roof landed safely in 48 hours, compared to 50 days for alternatives

Specialized Solutions Return Significant Savings

Having saved \$900,000 in disposal costs and \$2.8 million in product recovery, and finishing the project at least 50 days sooner than alternatives, the client saved \$3.95 million.

■ Inside the tank before manned entry



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