

# OIL RECOVERY IN SLUDGE OF TANKS AND EFLUENT SYSTEMS

## **EXCO** Booster Clean Systems



The EXCO Booster Clean System was created for oil recovey by the patent Technology by ultimate reserch Nano biochemicals and super separators.

#### Application:

- Tank Cleaning.
- Oil Recovey in sludge.
- Efluent Treatment.
- Produced water treatment.

The oil sludge are composed by water, hydrocarbon, and sediment. By our technology we separate in line with these components.

Oil 0.5% BSW

Water less than 200 ppm of oil

Sediment 5% humidity.

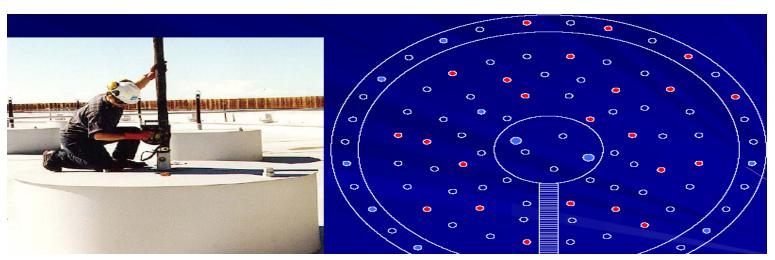


## Oil Recovery and Cleanning

- Before start we make dedicated survey.
  - Sludge Age.
  - Sludge Amount.
  - Sludge distribution (Thermografic Studio, 3D Profiling)
  - Cleanning Lab Simulation.
  - % Oil, % Water, and % Sediment.
  - Oil Quality.
  - Water Quality.



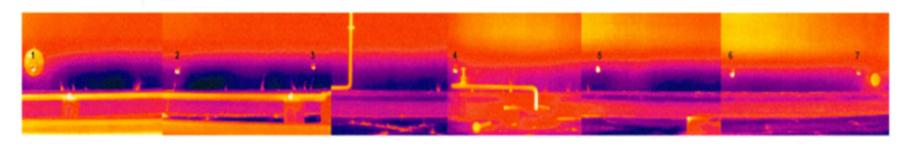




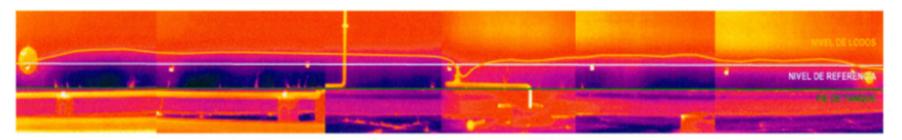
Samples and 3D Studio.



## PEMEX EXPLORACION Y PRODUCCION MAPA 1 IMAGEN TERMOGRAFICA TANQUE TV 4 CRUDO VISTA NORESTE

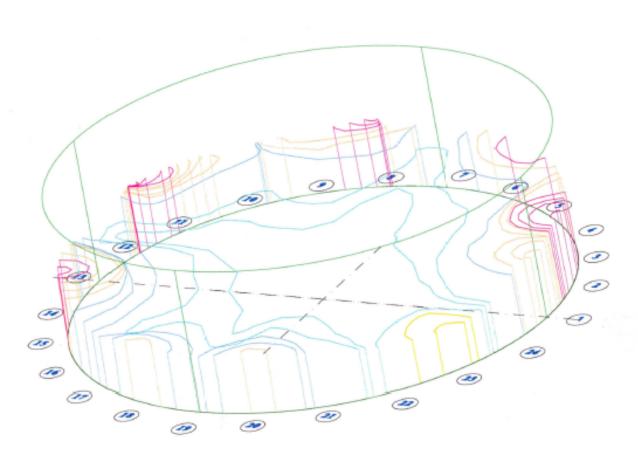


MAPA 1 IMAGEN TERMOGRAFICA CON LOS PUNTOS DE REFERENCIA



MAPA 1 IMAGEN TERMOGRAFICA INDICADORES DE NIVEL

## <u>VISTA EN PERSPECTIVA DE LA DISTRIBUCIÓN Y PROFUNDIDAD</u> <u>DE LODOS DEL TANQUE TV-4</u>



SIMEOLOGIA:

PUNTO DE REFERENCIA

de 0.90 a 1.00 m

de 0.80 a 0.89 m

de 0.70 a 0.79 m

de 0.60 a 0.69 m

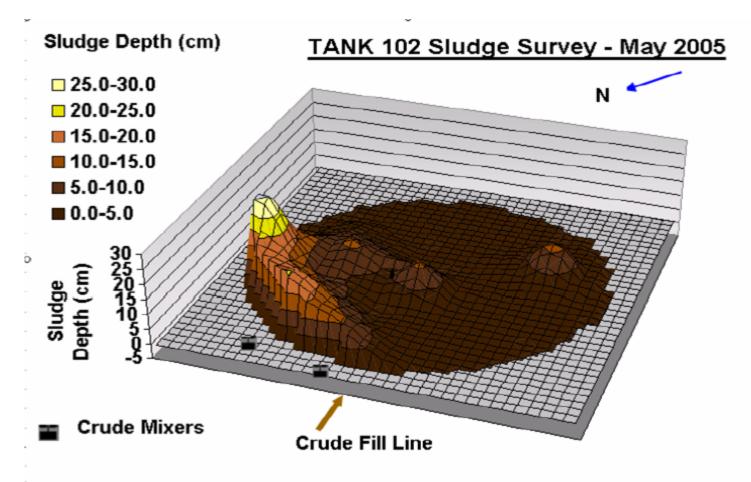
de 0.50 a 0.59 m













## Sediment Stables



### Traditional Mechaninc Cleanning vs Exco Booster Tech

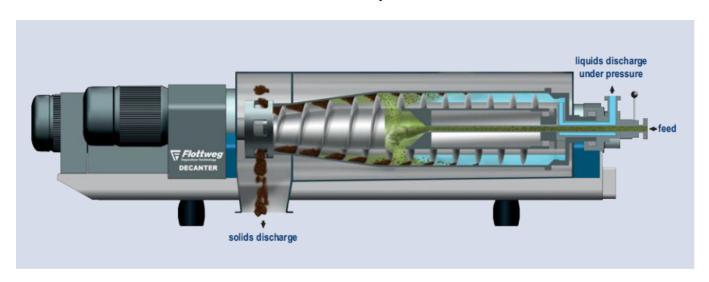


- Mechanical Cleaning
  - 0% Oil Recovery.
  - 2-8 Month Timeline.
  - \$ 98 US Dll m3 Sludge Disposal
  - 0% ROI
  - High \$ Additional Cost for manual cleaning.

- Exco Booster Tech
  - 80%-95% Oil Recovery.
  - 0.5-2 Months Timeline.
  - 120% ROI
  - 5-20% Dispolsal Sediment.
  - · Automatic System.

## Decanter two phases









## Tricanter (3 phases separator)

