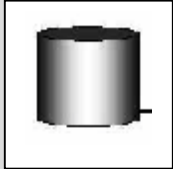


# Cost Comparison for Crude Tank Sludge Handling

**5,000 barrels to be removed**

## Petromax Sludge Conditioning

## Conventional Method – Water Blasting



Tank empty & clean.  
**6,250 bbls** of fluidized sludge to handle for further processing.

\$ 70.18  
per bbl

\$106.47  
per bbl

\$108,000

\$180,000

Tank empty & clean.  
**12,250 bbls** (minimum) of sludge to handle for further processing.



18 days to remove sludge

vs

30 days to remove sludge

**Petromax** utilizes a *waste minimization application* that will optimize the sludge handling aspects of the job for **faster and safer sludge removal**. We also can expect to dramatically improve down stream waste handling away from the tank.

The value of getting the tank back in service 12 days sooner:  
12 days X \$ \_\_\_\_\_ = \$ \_\_\_\_\_



Cost of 13 storage tanks plus an additional rental cost of **\$390 per day** thereafter.

\$ 25,910

\$ 180,853

Cost of usage and cleaning 25 storage tanks plus an additional rental cost of **\$750 per day** while in use, plus the increased cost of sludge removal to the centrifuge.



Cost of dewatering **6,250** bbls of sludge (centrifuge). Cake sludge to roll off bins for transport to road base. Recovered oil to process.

\$ 85,750

\$171,500



Cost of dewatering **12,500** bbls of sludge (centrifuge). Cake sludge to roll off bins for transport to road base. Recovered oil to process.



Chemical provided at \$2.50 per gallon of ready-to-use Petromax formula.

\$ 131,250

**TOTAL JOB COST**

\$ 350,910

\$ 532,353

**TOTAL JOB COST**

\$ 70.18  
per bbl

\$106.47  
per bbl

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