

Cost Comparison for Crude Sludge Recovery to the Coker Unit

Crude Tank 120 feet diameter – 30 inches of heavy non-pumpable sludge – 5,000 barrels to be removed

Petromax Sludge Conditioning

\$ 54.87
per bbl

\$114.41
per bbl

Conventional Method – Water Blasting



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

\$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**.

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 cost
of sludge removal to the centrifuge.



Refinery operations portion of
hourly costs to supervise
contractor (sludge removal).

\$ 1,760

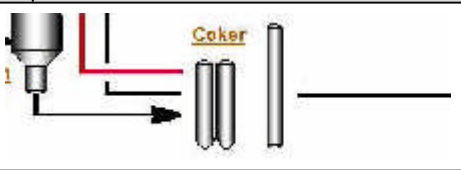


Cost of transferring
fluidized sludge to
Coker with vacuum
truck.

\$ 7,440

\$171,500

Cost of dewatering sludge to roll
off bins (centrifuge)



\$ 11,280

Refinery operations portion of hourly
costs to supervise contractor (sludge
removal & centrifuging).



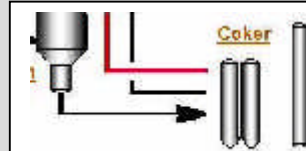
Chemical provided at \$2.50
per gallon of ready-to-use
Petromax formula.

\$ 131,250

1,250 bbls (petro) of
Petromax is used to fluidize
and remove 5,000 bbls of
sludge.

\$ 28,420

Cost of re-slurrying centrifuge cake for
transfer to Coker with vacuum truck.



TOTAL JOB COST

\$ 274,360

\$ 572,053

TOTAL JOB COST

\$ 54.87
per bbl

\$114.41
per bbl

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