



# MUD BOAT CLEANING CASE HISTORY

On the 5<sup>th</sup> of August, 2005, an ICS GoM, LLC customer that owns a dockside cleaning business located in Cameron, Louisiana, contacted David Ball to enlist ICS GoM, LLC's assistance in cleaning a mud boat. The customer is contemplating the purchase of an ICS GoM, LLC cleaning unit, chemicals and recycling unit and was interested in using the TC-100 alone with only the boat's circulation system combined with the customer's existing recycling system.

Below is a concise overview of how the operation was conducted:

## **A. Description**

- The mud boat was configured with 4-600 bbl. mud tanks
- Cargo was 16 # synthetic based mud
- Tank #1 had 24" of packed barite on the bottom with approximately 40 bbls. of pumpable mud above it
- Tanks 2, 3 and 4 contained approximately 6" of packed solids each with approximately 20 bbls. of pumpable mud above the settle barite
- The mud boat was taken out of service for cleaning due to the extensive clogging of the gunlines

## **B. Procedure**

- Usable mud was pumped from the tanks
- Gunlines were lanced manually
- 120 gallons of TC-100 was pumped into the customer's recycling unit and 40 bbls. of water was added into the recycling unit and the solution was mixed for 5 minutes
- The pill was pumped into Tank #1 of the boat and was circulated through the gunlines for 45 minutes to complete the unclogging that was begun with the initial lancing
- The fluid was then pumped from Tank #1 to the recycling unit to separate solids and liquid
- Next, the liquid phase from the recycling unit was pumped into Tank #2 which had 6" of packed barite, as did Tanks 3 and 4

- 30 gallons of TC-100 was added to the contents of the recycling unit and run through the gunlines
- The above described process was repeated on the remaining 2 tanks

### **C. Job Analysis**

- Total time on job site--4 hours
- Amount of TC-100 used--210 gallons
- Volume of viable mud recovered post recycling--130 bbls.
- Value of recovered synthetic mud according to known price structure to customer--\$15,600
- A sample of recovered drilling fluid was expedited to the mud vendor's local mud lab for verification of re-introduction into their mud plant
- Recovered drilling fluid was tested by the vendor's mud lab personnel and accepted into the mud plant
- Water usage through recycling systems--130 bbls.
- Disposal cost to customer--NONE

Note: The "chemical alone" process works only with the proper gunline design.