



GRAND ISLE SHIPYARD, INC.

Putting People First



A Product of *Innovative Marine Services, LLC* ®

Patent Pending

# Benefits Of Mudd-X

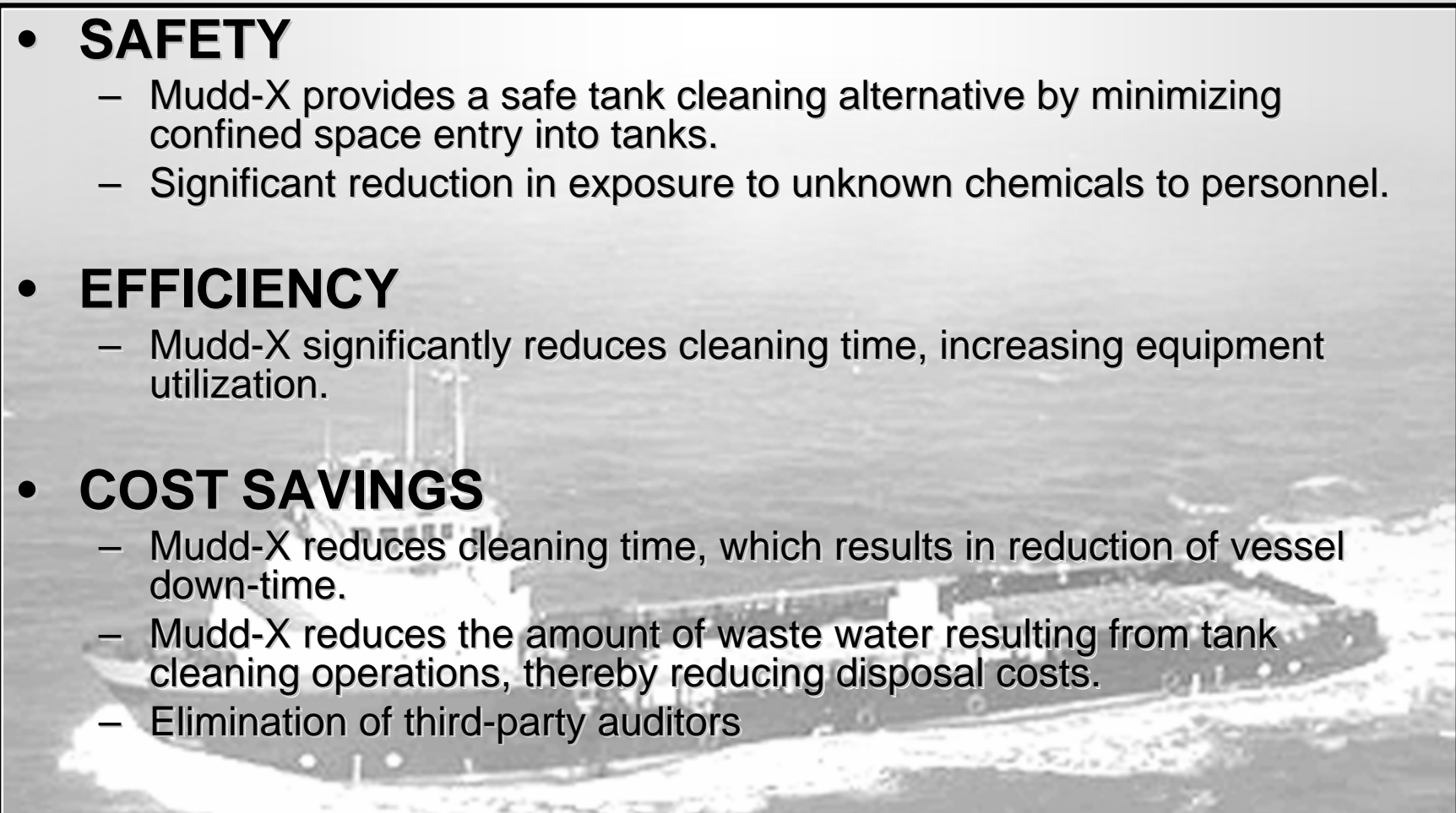
- **SAFETY**

- Mudd-X provides a safe tank cleaning alternative by minimizing confined space entry into tanks.
- Significant reduction in exposure to unknown chemicals to personnel.

- **EFFICIENCY**

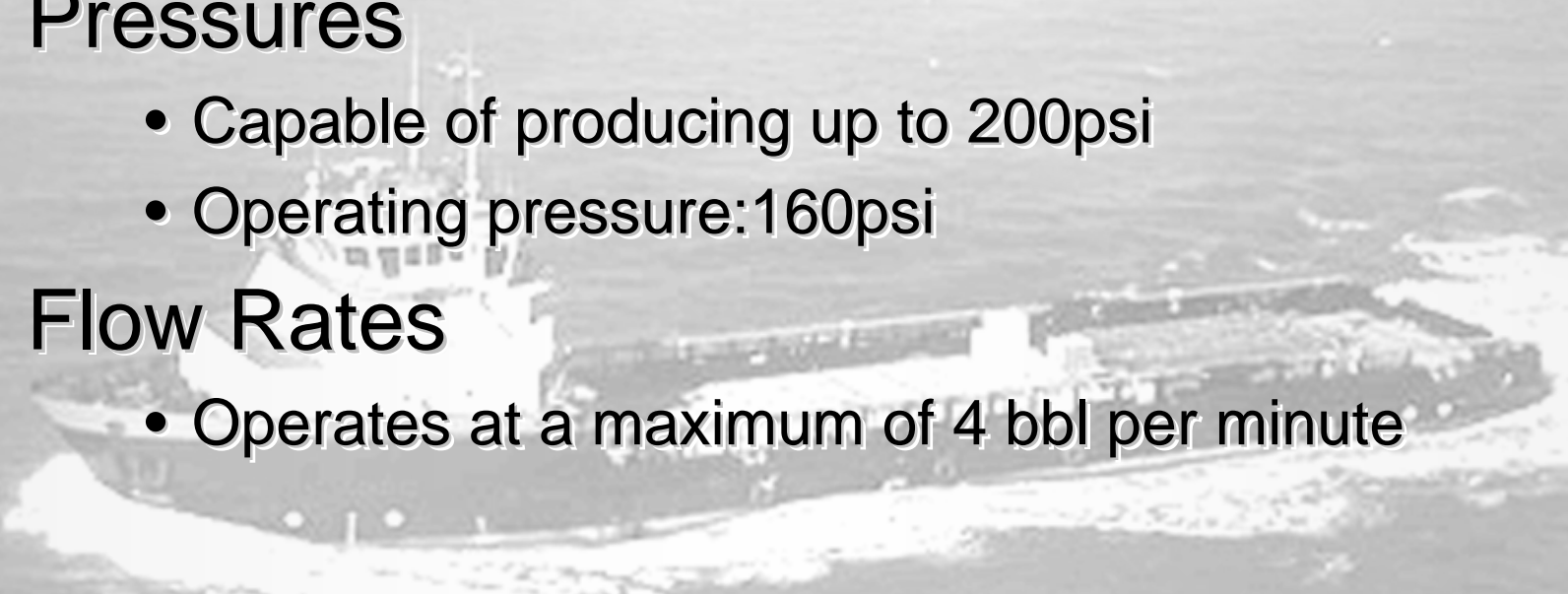
- Mudd-X significantly reduces cleaning time, increasing equipment utilization.

- **COST SAVINGS**

- Mudd-X reduces cleaning time, which results in reduction of vessel down-time.
  - Mudd-X reduces the amount of waste water resulting from tank cleaning operations, thereby reducing disposal costs.
  - Elimination of third-party auditors
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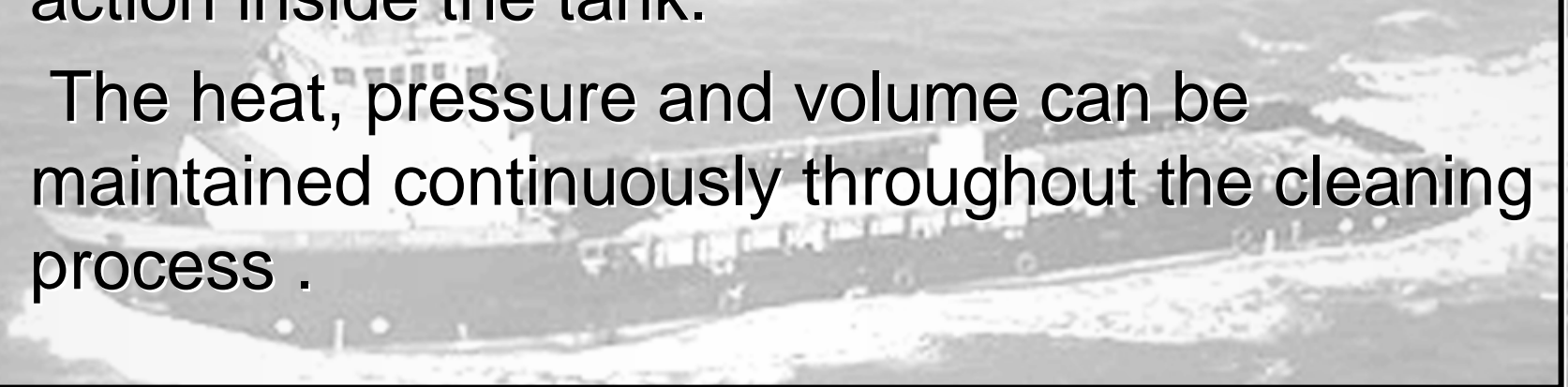
# Mudd-X Capabilities

- **Heating Temperatures**
  - Capable of heating water to 200° F
  - Operating temperature: 160° F to 180° F
- **Pressures**
  - Capable of producing up to 200psi
  - Operating pressure: 160psi
- **Flow Rates**
  - Operates at a maximum of 4 bbl per minute



# Our Process

- Mudd-X is a patented tank cleaning system that has numerous applications for the needs of today's tank cleaning industry.
- Mudd-X heats water and pumps it through a nozzle system that provides a jet like cleaning action inside the tank.
- The heat, pressure and volume can be maintained continuously throughout the cleaning process .



# Our Process (Cont'd)

- Once a minimal amount of time is spent setting up the equipment, the entire cleaning process is accomplished with no additional confined space entry until the process is complete.
- Mudd-X is also designed to allow the injection of soaps or other chemicals to assist in the cleaning process, if necessary.
- Mudd-X can be operated by our personnel in connection with a permanently affixed nozzle system or in connection with our versatile portable nozzle system

# Cleaning Example

Before



After



# Mudd-X and Portable Nozzle

