

INTERFACE IN THE FIELD

EFFECTIVE MONITORING OF TANK BATTERY CAPACITY

CUSTOMER PROFILE

INDUSTRY: Upstream Oil & Gas (E&P)
LOCATION: Wellsite and saltwater disposal
APPLICATION: Gun-barrel separators

ICEBREAKER

“If Magnetrol can provide a clearer understanding of tank battery capacity pending disposal, would this optimize truck utilization to ensure full loads?”



Truck unloading into tank battery for saltwater/oil storage and separation



Location of injection well

CHALLENGES

Ineffective measurement of the emulsion (rag) layer in the gun-barrel separator means:

- Unclear understanding of total tank battery capacities at wellsites and saltwater disposal facilities (separators and storage tanks)
- Increased cost due to trucks being dispatched to remote sites with sufficient capacity of “unwanted” liquids (water, gas condensates, etc.)
- During saltwater disposal, if oil is extracted into the disposal well it is not only lost revenue but causes potential plugging, rework costs and downtime
- Any residual oil in the saltwater limits the well capacity and eventually it must be reworked at a significant cost

SOLUTION

Magnetrol® level devices allow for better management and utilization of resources, such as trucks not being dispatched to remote sites with sufficient capacity

- Effectively measures the total level in the gun-barrel tank, as well as the oil-water emulsion (rag) layer
- Optimal performance even for thin rag layers
- Single transmitter design for total level and interface; increasing familiarity and reducing training
- Communicates through the desired protocols, is faster to commission and requires little power to cycle up and down

RESULTS

Better level measurement and more effective separation of oil and saltwater

- Clearer understanding of the day-to-day storage of “unwanted” liquids
- Better management and utilization of resources, such as trucks only being dispatched to remote sites with insufficient tank battery capacity
- Prevents potential plugging of disposal well and rework costs
- Simplified commissioning and training with communication through desired protocols