

**NES Tanksweep has been developed as the first stage of cleaning a storage tank where the level of oil or sludge prevents the safe removal of a manway. Once the level has been reduced by using the Tanksweep and a manway can be safely removed then cleaning can then be carried out in the normal manner using a NES Mover kit.**

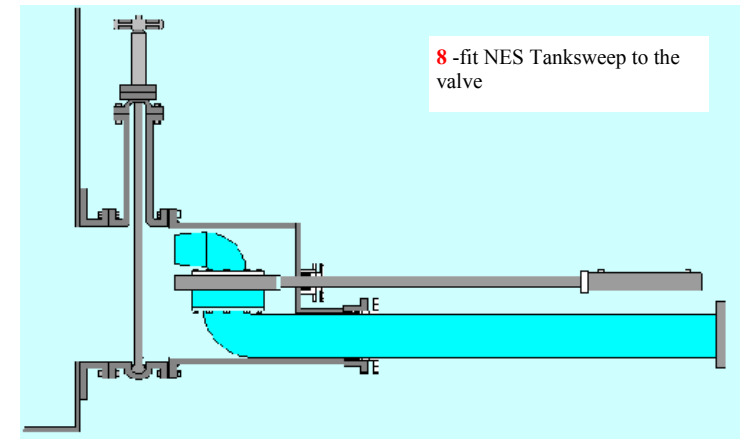
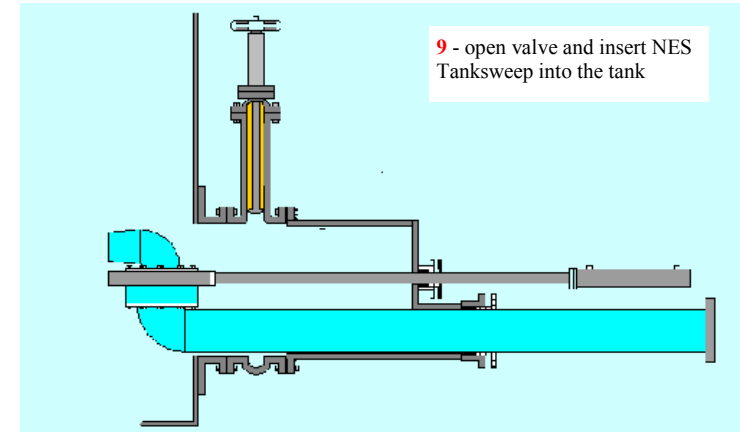
### Hot/Wet Tapping

Hot tapping is defined as using an under pressure drilling machine to cut a hole in an operating crude oil storage tank allowing a flange to be fitted through which an NESL nozzle may be inserted. This process is done without any product leakage or loss. This operation is safe provided the liquid level in the tank is above the level of hot tapping.

The components for a typical hot/wet tap application include a 18" flange, a 18" valve used to control the new connection, and a drilling machine used to make the hot tap.

The following is the basic procedure used to perform a hot/wet tap.

- Welding of an 18" flange to a tank manway and fitting of an 18" gate valve onto the flange
- Install hot tap machine
- Perform hot tap through the open valve. A special device retains the "coupon" removed during the hot tap operation.
- Retract cutter assembly.
- Close hot tapping valve.
- Remove hot tap machine to allow for inserting of the NESL "Tanksweep" nozzle



After completion of steps 1 to 9 the NES Tanksweep is connected to a pump and liquid oil is pumped at pressure through the Tanksweep nozzle. The nozzle can be moved horizontally to achieve a sweeping motion with the jetstream of oil from the nozzle. Once sufficient agitation has taken place the liquid can be pumped out of the tank via an existing point or by hot tapping an additional point. Once the level has been reduced to below the manway this operation ceases and the NES Mover is introduced to complete the tank de-sludging



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