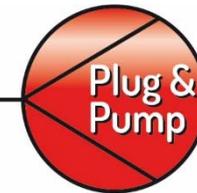




Water Deposit - Cases



Case Mol Pakistan

Produced water in

Parameter

- 20 m³/h
- 200 mg/l free oil
- 30 mg/l TSS

Water treatment

Modules

- Polymer + Fe₃Cl dosing
- Separator (Glaxiy Tower)
- Biocide dosing
- Optifill automatic filter
- Cartridge filter units

Produced water out

Result

- 20 m³/h
- **20 mg/l total oil**
- 99 % particle removal > 5 μm

Injection Module

Parameter

- Hammelmann high pressure plunger Pump
- **Flow: 20 m³/h**
- **Pressure: 345 bar**
- Inlet pressure: 3 bar

Oil production

Flood well

Case Maersk Kazakhstan

Produced water in

Parameter

- 132 m³/h
- 200 mg/l dispersed oil
- 100 mg/l TSS

Water treatment

Modules

- Polymer + Fe₃Cl dosing
- DGF (Gas Flotation)
- Nut shell filter
- Biocide dosing
- Cartridge filter units

Produced water out

Result

- 132 m³/h
- **5 mg/l total oil**
- 99 % particle removal > 5 μm
- 3 mg/l TSS

Injection Module

Parameter

- Sulzer High pressure centrifugal pump
- **Flow: 132 m³/h**
- **Pressure: 132 bar**
- Inlet pressure: 3 bar

Oil production

Flood well

The choice of the right water treatment technology is 100% dependent on the desired wastewater discharge values!
Increased water quality has a significant impact on the system complexity and price!