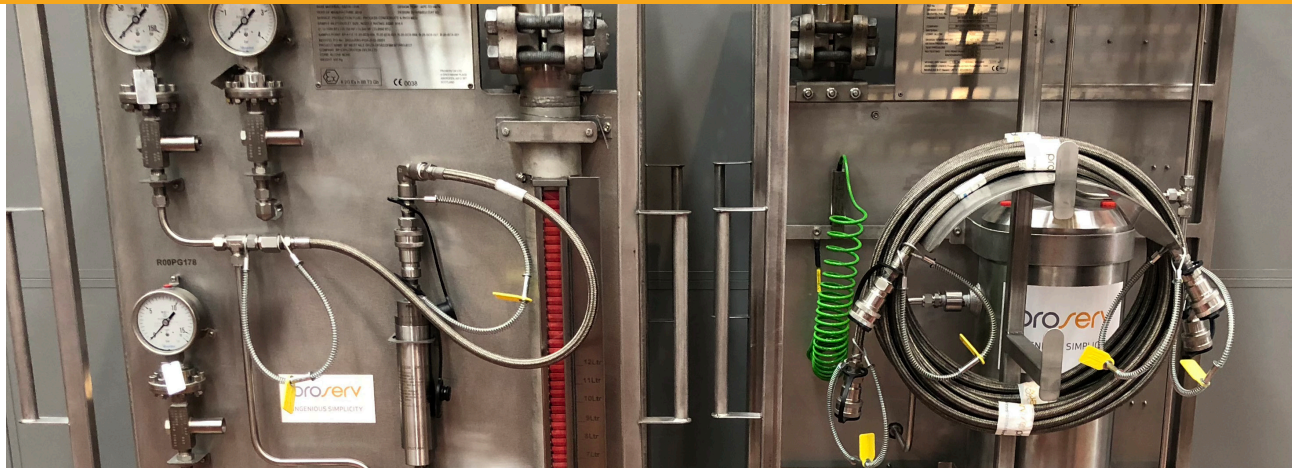
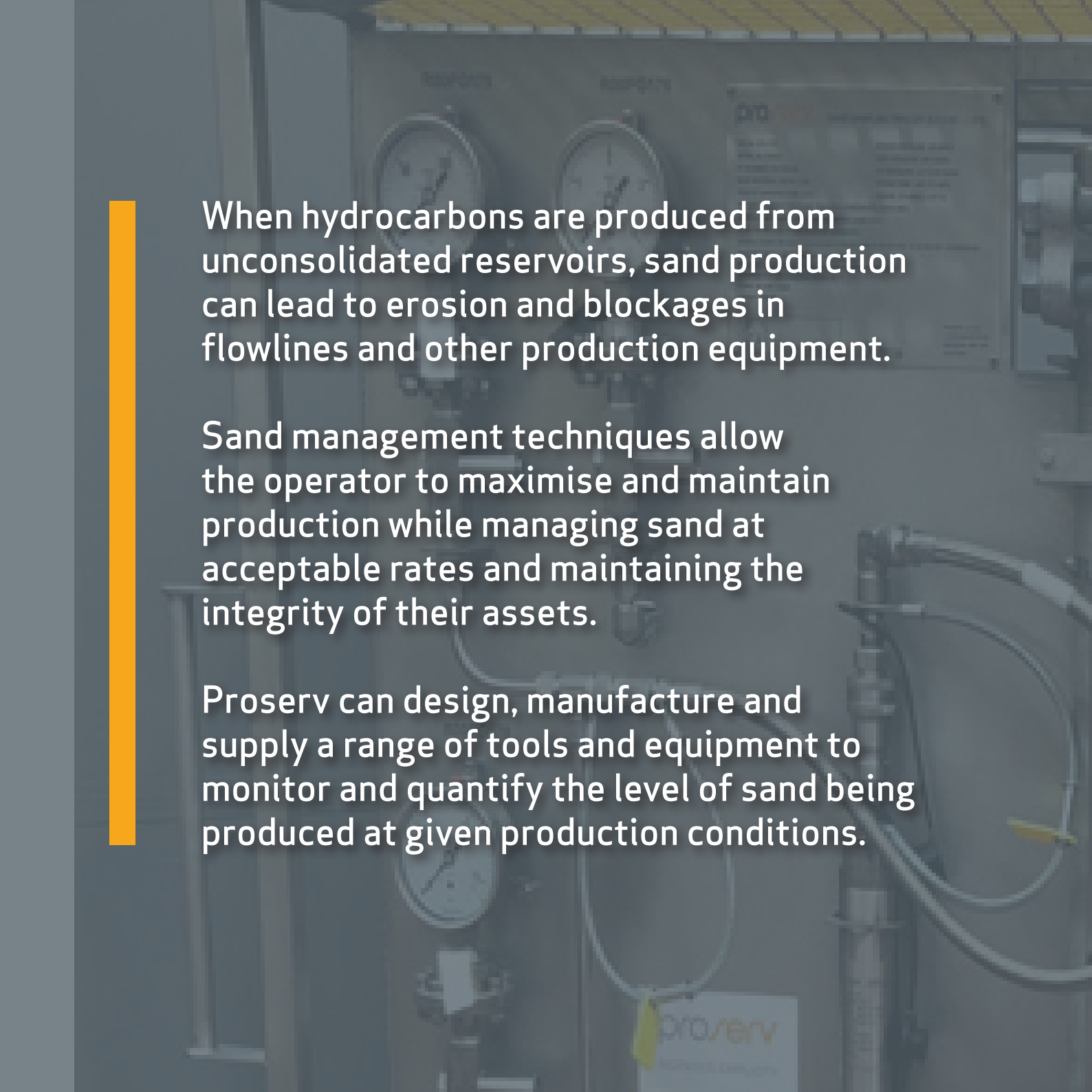




Mini Separator and Sand Sampling

Know Your Well

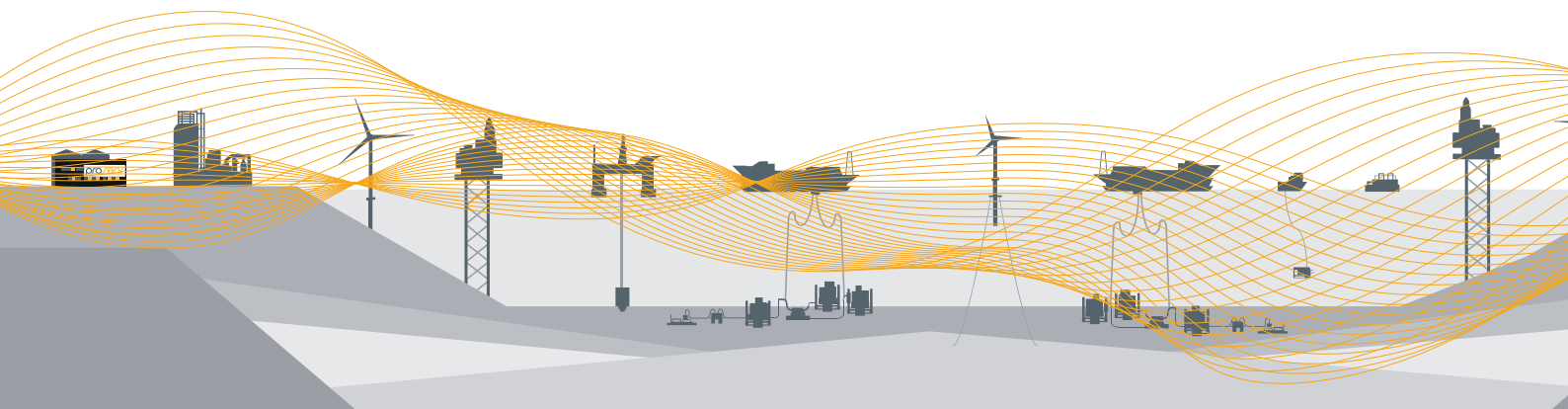
proserv



When hydrocarbons are produced from unconsolidated reservoirs, sand production can lead to erosion and blockages in flowlines and other production equipment.

Sand management techniques allow the operator to maximise and maintain production while managing sand at acceptable rates and maintaining the integrity of their assets.

Proserv can design, manufacture and supply a range of tools and equipment to monitor and quantify the level of sand being produced at given production conditions.



25+ years of experience in topside sampling systems

Know your well

Unexpected and uncontrolled sand production can result in costly production downtime and, in some cases, environmental excursions through excessive hydrocarbons discharged, or indeed catastrophic equipment failure.

Sampling is critical when implementing a sand and solid management program, and it is essential the physical properties are understood including density, volume fraction, particle size, and morphology to help quantify risks including pipework erosion, settling rate and stacking.

In addition, the chemical and mineralogical properties play an important role in understanding the corrosion potential, sand cleaning and oil coating of solids.

Minimise production deferment and exposure to toxic gases

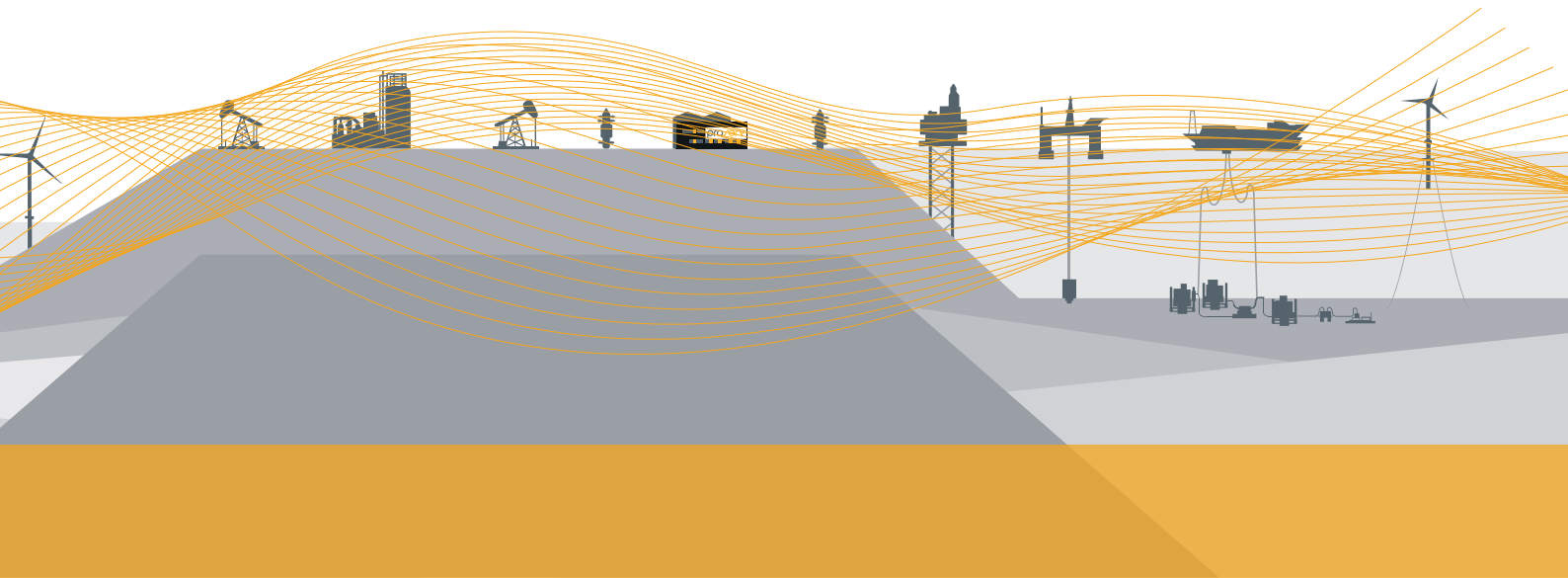
Proserv's innovative filtration trolleys allow you to safely and consistently sample at wellhead and flowlines, upstream of 1st stage separation for water chemistry, sand and solid loading, and hydrocarbon composition.

Rule of thumb for pore blockage and filtration sizing.

- $>1/3$ pore throat diameter blocks throat
- $>1/7$ but $<1/3$ bridges throat
- $<1/7$ passes through pore throat

Solids can impact a number of different areas

- Stabilise emulsions
- Ability to inject water
- Overboard oil-in-water
- Erosion of pipework and valves
- Filling separators and storage tanks



Simplify the sampling of oil, water, gas and solids at the same time.

- Portable
- Enclosed sampling
- Guided wave radar level control
- Stain tube port for H₂S and CO₂
- Various filtration sizes, 3 to 300 microns
- Manufactured to suit a range of environments
- Capture and containment of up to 31ml of solids



Multi phase sand sampling trolley



Mini Separator Sampling Trolley



Sand filters



Produced water, sand and solid sampling panel



Sand filtration unit



Multi phase sand sampling panel

You can't manage what you can't monitor

Solid sampling filtration systems support:

- Subsea solid sampling
- Hand-held solid sampling filtration unit
- Topside low-pressure solid sampling filtration trolley
- Topside high-pressure solid sampling filtration trolley
- Produced water / injection water solid sampling filtration panel



We improve the reliability, integrity, efficiency and productivity of critical infrastructure with industry leading controls technology.

CONTROL | MONITORING | INTELLIGENCE | OPTIMISATION

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