

Onsite well cleanup system



For time-efficient, reliable well cleanup with reduced environmental impact

Applications

- Well cleanup operations
- Integration with fluid preconditioning service as part of the Production ExPRESS™ rapid production response solutions portfolio
- Highly fractured reservoirs with the potential for significant fluid loss while drilling
- Absence of or limited-capacity water handling facility
- Operations with ultrahigh-H₂S, CO₂, or other hazardous effluents
- Locations with sensitive ecosystems or strict governmental emissions regulations

How it improves well cleanup

- Enables efficient startup of new wells to boost total production
- Enhances HSE processes
- Improves cleanup efficiency of the near-wellbore region through high high surging capabilities
- Reduces hydrocarbon emissions by using the EverGreen™ minimal environmental impact well effluent burner, with industry's highest peak combustion efficiency of 99.84%
- Improves separation and well effluent conditioning with the CleanPhase™ well test separator and SmartWeir™ phase separation technology

Features

- Efficient water disposal
- Mobile, trailer-mounted setup
- Capability to process up to 40 MMcf/d of gas and 15,000 bbl/d of liquid
- Efficient burning of up to 20,000 bbl/d and 30% water cut
- Enhanced equipment with protective coating for resistance to ultrahigh-H₂S fluid
- Winterized package designed to -40- to 55-degC [-40- to 131-degF] ambient conditions



Achieve efficient well cleanup with reduced environmental impact.

How it works

The onsite well cleanup system combines robust SLB technologies and extensive domain expertise to provide a time-efficient well cleanup solution that minimizes environmental impact. It works seamlessly with the Production ExPRESS rapid production response solutions portfolio to enable faster and increased production. The trailer-mounted system is a fully mobile configuration that significantly reduces rig-up and -down time with reliable components:

- High-rate CleanPhase well test separator enhances separation and enables high retention time to ensure no water carryover into production. High-quality separation is achieved with optimized separator vessels and a combination of the CleanPhase separator and SmartWeir phase separation technology.
- Vx Spectra™ surface multiphase flowmeter continuously monitors cleanup progress by measuring water cut in multiphase flow to provide early warning of any fluctuation. This enables the field crew to react in time and avoid detrimental effects to produced-fluid disposal.
- Wireless data acquisition system reduces HSE tripping hazards while keeping the crew and operator informed in real time. The wireless data acquisition system is connected to the operator's SCADA system for real-time data transmission.
- Smart ignition system automatically reignites unlit pilots and includes fail-safe tripping of the emergency shutdown (ESD) system if reignition is not successful to prevent water fallout or hydrocarbon flow to surface.
- EverGreen minimal environmental impact well effluent burner provides efficient burning.
- Horizontal surge tanks store cleanup fluid prior to burning.
- For emergency pressure relief with zero spills, the cleanup system is connected to a 10-in relief line via a 250-bbl knockout drum. For additional safety and compliance to API Standard 537, the 10-in relief line is equipped with a velocity seal and fuel-gas continuous purging system.

SLB can design a custom well cleanup configuration fit to your objectives.