

## Well head single phase sampling

Expro offers single phase wellhead sampling on wells that are flowing above the bubble - or dew point pressure, hence are in either pure oil or gas phase at the wellhead.

When collecting the samples one can select either to fill single phase bottles to maintain the fluids in the same phase, or one can fill dual phase bottles, leaving a semi-flashed sample in the transport cylinder. The methodology on this point will normally be dictated by the fluid quality and what parameters are intended to be measured at the laboratory at a later stage.

Methodology recommended for this type of work is to use piston cylinders, or single phase cylinders (gas and oil) in order to maintain the integrity of the samples at hand.

### Features & Benefits:

- Instant access to the samples for quality control
- More representative fluid samples than recombination samples from the separator
- In best cases this method can provide samples equally representative of the reservoir as bottom-hole samples
- A wide range of high quality sample bottles
- Large volume sampling available
- Economical



WH sample bottle in stand

## Well head single phase sampling

### Technical Specifications:

#### Sampling Manifold

Working pressure: 760 bar  
Service: H<sub>2</sub>S and CO<sub>2</sub>

#### Sensors

Pressure ratings: 100, 200, 500 and 700 bar  
Temperature ratings: 0-200 °C

#### Cables

Capacitance : 70 nF/km  
Inductance: 0.62 mH/km

#### Sample Bottles

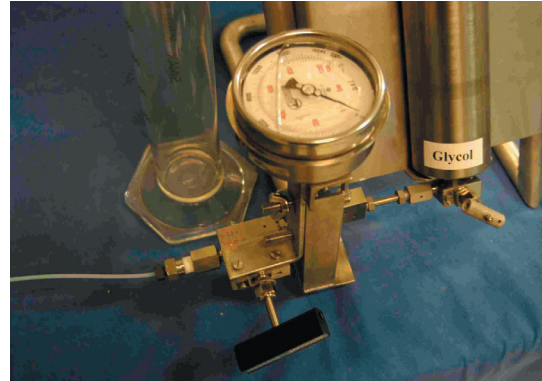
PetroLight® 700/1000/4000 Titanium  
Capacity: 700, 1000 or 4000 cc  
Pressure: 700 cc and 1000 cc: 690 bar @ 65°C  
4000 cc: 830 bar @ 65°C or 690 bar @ 170°C  
Material: Titanium  
Weight: 6, 8 or 45 kgs

#### Standard Single Phase Sample Bottle (SSB)

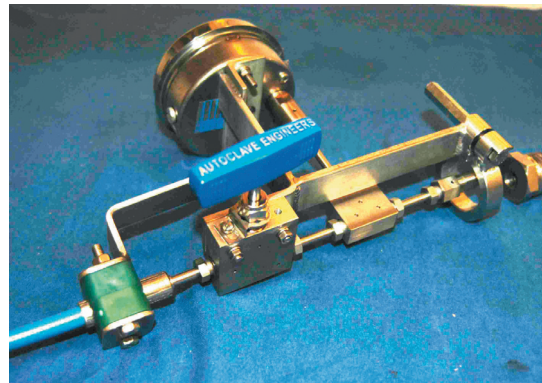
Capacity: 700 cc  
Pressure: 700 bar @ 120°C  
Material: 17/4 PH  
Weight: 25 kgs

#### Non Corrosive Single Phase Sample Bottle (NCSSB)

Capacity: 700 cc  
Pressure: 1000 bar @ 180 °C  
Material: Inconel  
Weight: 27 kgs



Bottom glycol connection



WH connection manifold