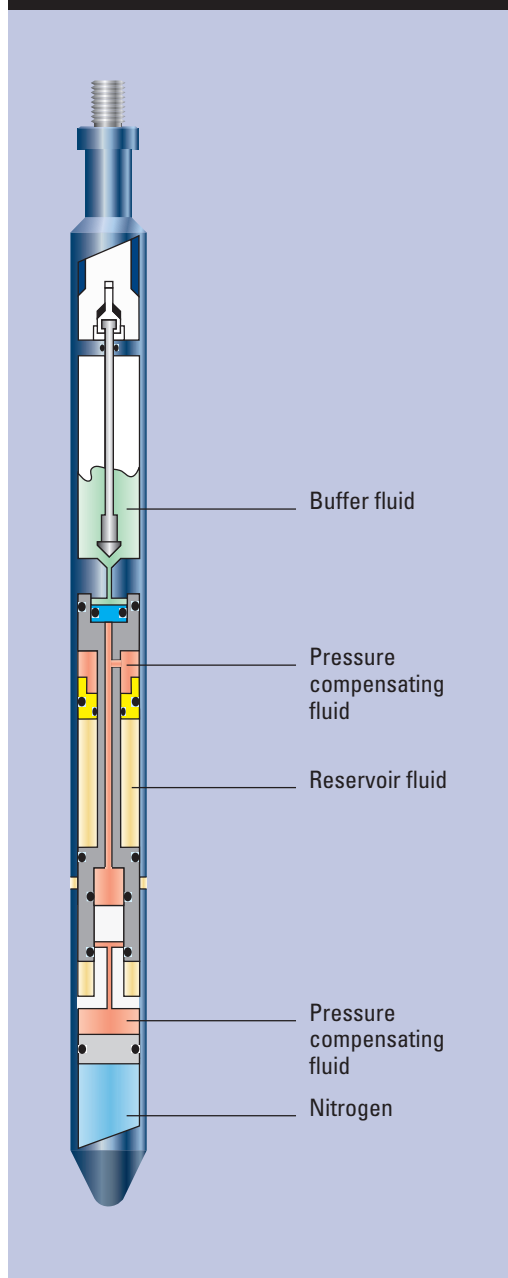


Single-Phase Reservoir Sampler

Advanced sampling system for all wireline applications

Single-phase reservoir sampler.



The Oilphase-DBR* Single-Phase Reservoir Sampler (SRS) is an advanced specialized system for all subsurface sampling applications. The SRS design maintains the sample in a single-phase condition above reservoir pressure as the tool is retrieved from the hole.

This technology provides truly representative samples and is essential for measurements requiring samples in unaltered condition, such as pressurized pH measurements in formation water or asphaltene deposition analysis in oil.

The SRS allows controlled, uncontaminated reservoir sampling without sample flashing. The unaltered sample is retrieved at the surface in single-phase state, requiring no recombination before transfer. Without the necessity of sample recombination, the sample transfer takes minutes instead of hours.

This mercury free, pressure-compensating bottomhole sampling tool can be run in strings of up to eight tools on slickline, wireline, electric line, coiled tubing, or sucker pump rods. Each tool has its own clock, allowing complete flexibility in deciding when, and at what depth, each individual tool in the string takes a sample.

Applications

- All subsurface sampling operations requiring unaltered, uncontaminated single-phase samples
- Flow assurance studies
- Aquifer pH studies

Benefits

- Sample retrieval without phase change
- Reliable operation
- Fast sample transfer

Features

- Single-phase pressure compensation
- Positive displacement operation
- Mercury-free operation
- No recombination necessary
- No sample flashing during sampling

Oilphase-DBR SRS Technical Specifications

Length	4.14 m [13 ft 7 in]
Weight	35 kg [77 lbm]
Max. OD	44 mm [1.75 in]
Sample capacity	600 cm ³ [37 in ³]
Test pressure	155 MPa [22,500 psi]
Working pressure	103 MPa [15,000 psi]
Working temperature	200 degC [392 degF]
Max. time delay	7 d
Service	Sour
Design code	API 6A
Certifying authority	Bureau Veritas