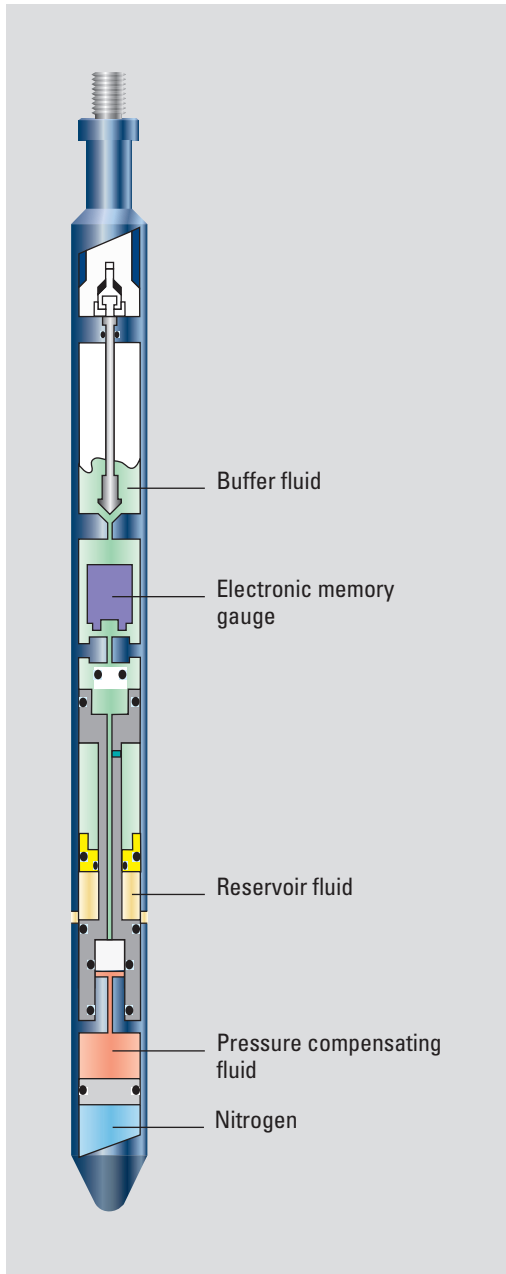


Data Recording Sampler

Digital pressure and temperature recorder



The Oilphase-DBR* Data Recording Sampler (DRS) is a small diameter, battery-operated pressure-temperature transducer package and modified air chamber that accurately measures and records pressure and temperature data on an Erasable Programmable Read-Only Memory chip. The DRS fits in any Single-Phase Reservoir Sampler to record the pressure and temperature in the sample chamber during bottomhole sampling operations. To provide complete flexibility for any sampling program, the data-sampling rate can be varied.

Programmed on the surface before running, the DRS provides a pressure and temperature record from the time the tool is run in the hole until the sample is transferred into a sample cylinder. It also records the exact time of sample capture. Understanding this information is crucial in many fluid studies where the pressure and temperature history define the validity of the sample.

Applications

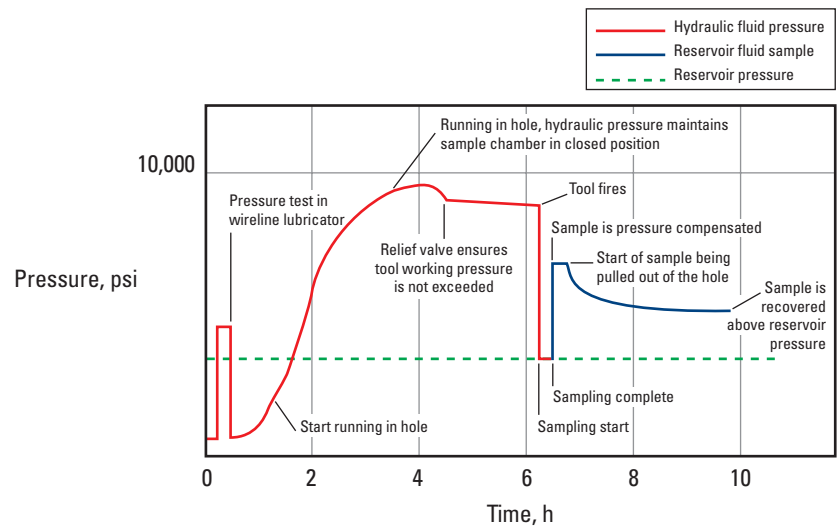
- PVT and formation water studies requiring a sample pressure and temperature history

Benefits

- Complete record from the reservoir to the sample cylinder
- Records exact time of sample capture

Features

- Internal electronic pressure and temperature gauge
- Records sample chamber pressure and temperature throughout entire operation
- Programmable data sampling rate



Oilphase-DBR Data Recording Sampler Technical Specifications

Length, m [in]	0.914 [25.4]
Weight, kg [lbm]	10 [22]
Max. OD, mm [in]	44 [1.75]
Sample capacity, cm ³ [in ³]	600 [37]
Test pressure, MPa [psi]	155 [22,500]
Working pressure, MPa [psi]	103 [15,000]
Working temperature, degC [degF]	200 [392]
Max. time delay, d	7
Gauges	UNIGAGE* quartz and UNIGAGE CQG*quartz
Memory size	102,500 data sets (time, pressure, and temperature)
Pressure range, MPa [psi]	138 [20,000]
Temperature range, degC [degF]	150 [302]
Accuracy	±0.07 MPa [10 psi] ±0.01 degC [0.02 degF]
Resolution	1.4 kPa [0.2 psi] 0.01 degC [0.02 degF]
Scan rate	2 s to 12 h
Service	Sour
Design code	API 6A
Certifying authority	Bureau Veritas

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