

EZ BHS

- 1-11/16" / 125°C (250°F)
- 2-1/2" / 225°C (440°F)

HT
HP

FLODIM
Challenging the limits

PVT Bottom Hole Sampling system with no surface transfer

MAINS:

Run on e-line, the EZ BHS system is the safest patented mono-phase downhole fluid sampling tool available in the market. The oil filled pressure compensation system keeps the system under state of the art PVT considerations from reservoir to surface, thanks to the combination of dedicated piston and regulator that ensure together a controlled sampling rate.

A dedicated telemetry on top of the instrument incorporates Gamma-Ray & DSCL devices for precise depth correlation and P & T° accurate sensors to complete PVT data at the time the sample is taken.

A complementary memory system was recently validated to lower additional sampling chambers in conjunction with the main one or independently from a slickline unit. A fast programming of the Delay Time before opening and of the Duration Time before closing is made on surface, prior to running in.

Once at the required depth, the opening system is activated to catch the downhole sample without disturbing the reservoir, which is a PVT condition. The operation can be repeated with the memory BHS if other samples are to be taken within the same Wireline logging run.

Back on surface, each sampling chamber becomes a transport container, hence saving operational time and avoiding any data and material losses because of delicate transfer on surface. The unique Gas-Cap safety system allows relief of the pressure applied to the sample for transportation, leaving its composition unaffected.

New developments were validated up to 225°C (440°F) in High Temperature Geothermal wells. The 2-1/2" OD sampling system was built for extremely harsh environment, including CO₂ and H₂S resistance.

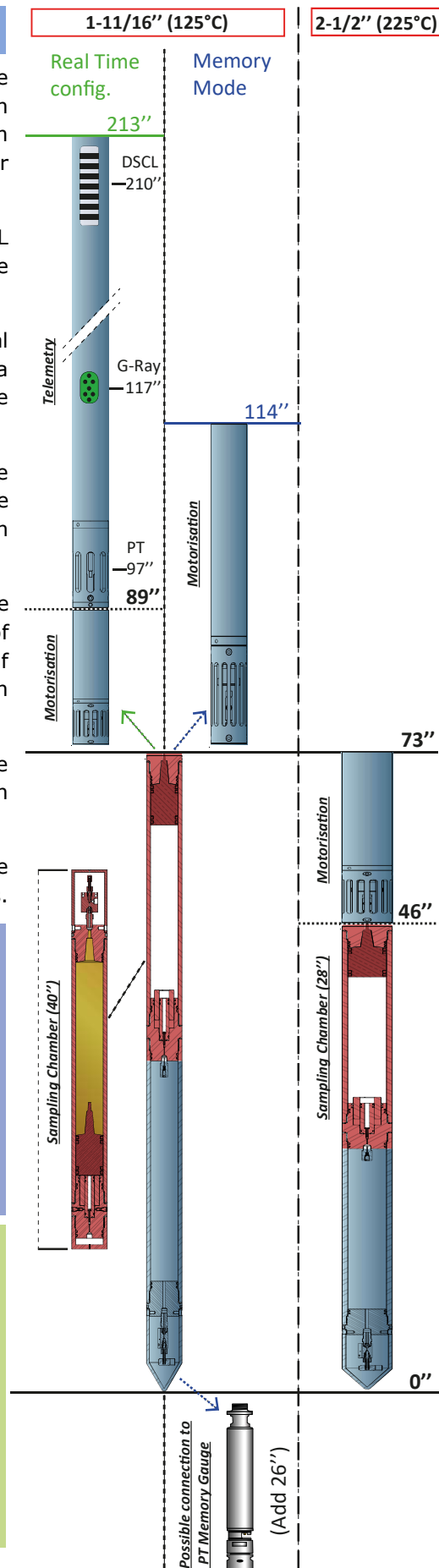
The EZ BHS instrument is the only downhole sampling system that allows the lab to analyze the sample in the exact fluid reservoir composition and conditions.

APPLICATIONS

- Deep Geothermal Wells
- CO₂ Storage Observation Wells
- Liquid Hydrocarbon & Gas Storage Cavern
- Exploration & Production Well Testing
- Wells & Cavern Integrity Management
- Bacteriological, Physico-Chemical and PVT Sampling

SPECIAL FEATURES

- Reliable and Safe
- Fast Preparation & Easy Maintenance
- No Transfer on Surface
- Unique Gas-Cap System
- Stackable Independent Chambers
- Reservoir Conditions up to the laboratory
- Real Time or Memory Activation
- Declined to Harsh Environment (225°C, H₂S, CO₂)



SPECIFICATIONS:

	125°C Real Time		125°C Memory Mode		225°C Real Time	
	imperial	metric	imperial	metric	imperial	metric
Max. OD	11/16"	43 mm	11/16"	43 mm	2-1/2"	63.5 mm
Length	17.8 ft	5.4 m	9.5 ft	2.9 m	6 ft	1.85 m
Weight	57 lbs	26 kg	17 lbs	7.5 kg	59.5 lbs	27 kg
Temperature	250 °F	125 °C	250 °F	125°C	440 °F	225 °C
Pressure	8 700 psi	600 bar	5 800 psi	400 bar	10 000 psi	700 bar
Chamber Volume	36.6 cu.in	600 cm ³	36.6 cu.in	600 cm ³	36.6 cu.in	600 cm ³

Material

High grade stainless steel in standard version,
H₂S/CO₂ resistant steel for HT^o Sampling applications

Sensors

Depth Correlation - Gamma-Ray & DSCL (dual string collar locator)

Pressure - Quartzdyne, QMB301 - 10K - 150°C : Accuracy 0.015% FS
Resolution < 0.006 psi.sec
Repeatability < 0.01 % FS

Temperature - PT-100 : Range 0 - 125°C
Accuracy 0.05% FS
Precision 0.01% FS

Others

Additional chambers when bacteriological (200 cm³, 600 cm³) or physico-chemical sampling (1.4 l, 2 l, 10 l)

HOW IT WORKS:

