

Well Flow Management

Fluids

Wireline Non-Reactive Sampler (NRS)

Expro's Wireline Non-Reactive Sampler (NRS) is a tool for bottom hole sampling of petroleum reservoirs using wireline or slickline.

The tool is used for taking H₂S and Hg samples. The samples are taken in an evacuated chamber and sealed with a metal-to-metal seal and no piston or rubber seals come into contact with the stored sample. Activation of sampling is done using E-clock which allows the operator to choose the exact time of sampling. The sample will be dual-phase at surface and cannot be used for PVT analysis.

Features

- **Non-corrosive:** NRS provides service in the most hostile well environments with extreme H₂S levels
- **Detachable sample chamber:** the actuator opens and closes the NRS in a single shot triggering. The sample chamber can be removed, secured and if required, replaced by another for more samples

Benefits

- Can be operated in HP/HT wells without compromising safety
- Can be used on production platforms with working height restrictions
- The non-reactive material makes the tool excellent for trace element sampling and sampling in highly corrosive hydrocarbon fluids containing CO₂, Hg, H₂S and brines
- The material of the tool provides insignificant loss of H₂S from the sample
- Provides a unique method to collect and analyse Hg from the reservoir
- Fast sample analysis with the sample being analysed onsite immediately after coming out of the well, ensuring the best possible result

Technical specifications

Design pressure	20,000psi @ 400°F
Sample volume	600cc (3x200cc) dual phase
Tool OD	62mm / 2.44"
Tool length	3742mm / 147.3"
Tool weight	46kg
Service fluid	NACE MR0175 / ISO 15156

For more information contact your local Expro representative or email fluids@expro.com

