While the cost of obtaining a good quality core depends on a number of factors, the bottom line is simple: coring is very expensive if the best core is not brought to surface. The “best” core in general refers to core that is mechanically undisturbed and not invaded.

The new Foam Coring Preservation provides complete core stabilization in a fast and reliable system that ensures sample integrity while facilitating ease of handling. Cores are immediately protected and preserved in-situ, eliminating potential damage and ensuring quality analysis. The process combines two chemical components which are mixed under pressure at the point of application to create polyurethane foam that skins over in 30-40 seconds, and is completely cured in less than a minute.

Easily applied with a gently pressurized gun, the foam is shot into small injection holes drilled along the length of either standard 1-meter sections or full length core barrels. Mud is initially drained from the tubes and is further expelled as the foam fills the annulus and expands, quickly solidifying to prevent any movement of the core within. As a result, potential damage through handling is drastically minimized.

The foam created by combining the polymeric isocyanate and polyol blend is easily removed from the core surface to expose bedding planes, allowing correct core orientation and sampling. In addition, Halliburton can provide the portable Core Gamma Logger (CGL) to perform well site gamma analysis immediately after the core is retrieved. The CGL measures natural gamma radioactivity of the core and issues a chart of “depth and natural gamma radiation”.

**BENEFITS**
- Completely stabilizes core in just minutes, ensuring sample integrity of even soft, friable formation samples
- Flexible application for both full 30ft inner barrels or sections cut into 1m length core samples
- Sets in just 30-40 seconds and completely cures in less than one minute
- Facilitates ease of handling and rapid core analysis
- Allows gamma logging without compromising results
- Provides core that is mechanically undisturbed and minimizes handling risks

**Complete Core Stabilization**
**Protects Sample Integrity and Ensures Quality Analysis**

Easily injected with a pressurized gun, foam fills the annulus, encapsulating the entire core to prevent movement.

Full barrel length Foam Coring Preservation quickly protects fragile core samples, particularly of soft and unconsolidated formations which can be impacted by even basic handling vibrations.