

RESERVOIR CHARACTERIZATION FROM DRILL CUTTINGS



Drill Cuttings provide the most economical way to acquire formation samples from a wellbore. The cuttings can easily be used to obtain geochemical, rock properties and fluid compatibility information.

Preparation

Careful attention is paid to the handling of cuttings in the lab. Each sample is assessed to determine the quality and suitability of the cuttings for various analyses. Only after this initial screening process will NuTech's laboratory recommend appropriate testing suitable for the state of cuttings.

Chemostratigraphy - XRF

Elemental data from XRF can offer tremendous insight into your drilling program. Fingerprinting your wellbore can determine where the lateral is located within the strata and be used as proxies for petrophysical parameters.

Mineralogy - XRD

Go into completions with confidence and avoid drilling hazards. Accurate mineralogical analysis from XRD can be critical in optimizing your IP, provide direct knowledge of variations in sample mineralogy and improve log calibration.

Geochemistry – Source Rock Analyses

Total Organic Carbon (TOC) and Rock Eval Pyrolysis or Source Rock Analysis are used primarily to assess the source potential and thermal maturity, however, it is now common to evaluate potential reservoir rocks to assess the oil content and quality. We can help you understand your reservoir better than ever before.

Mercury Injection Capillary Pressure - MICP

Mercury injection (intrusion) provides for the rapid quantification of a sample's interconnected pore system and the size distribution of pores that strongly influence the reservoir quality.