

To further enhance your evaluation of the subject well, let me suggest the following Core Lab services that could possibly help your company.

- 1.) Thermal Extraction chromatography (TEC)
  - A.) Heat is used to vaporize residual hydrocarbons from core chip samples or drill cuttings into the column of a chromatograph for measurement of richness and composition.
  - B.) Both the concentration and molecular distribution of hydrocarbons show characteristic differences in rock samples from productive and non-productive intervals.
  - C.) A plot of relative hydrocarbon richness and composition by depth can readily be correlated with well logs to aid in defining productive intervals and type of production to be expected from those intervals.
  - D.) TEC can predict flushed zones and unswept zones.
- 2.) Petrology work:
  - A.) X-Ray Diffraction
  - B.) Scanning Electron Microscope (SEM)
  - C.) Thin Sections:

To define mineral constituents, their location in the pores, and to identify potential completion problems.
- 3.) Electrical resistivity measurements:

To define A, M, and N values in Archies' equation to calculate water saturation and along with logs to calculate oil in place.

For more information on these or any other test, please feel free to contact your local Core Laboratories Representative at 915-694-7761.