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CarbOxSat™ model

Wireline and perforating services

This interpretive model is specifically designed for saturation analysis of a single well based on Halliburton C/O logs. The CarbOxSat model is used for interpreting oil saturation in reservoirs where formation water salinity is fresh, mixed, or unknown.

Associated answer products and pre-processing software

- Pulse-height spectral gain stabilization and processing (RMTERL)

- Multi-pass stacking (RMTEAVG)

- Environmental corrections (RMTECOR)

- SigmaSat™ – similar model for saturation analysis of neutron decay logs

- TripleSat™ – similar family of models utilizing both carbon/oxygen and neutron decay logs, for use where three fluids are present in the reservoir
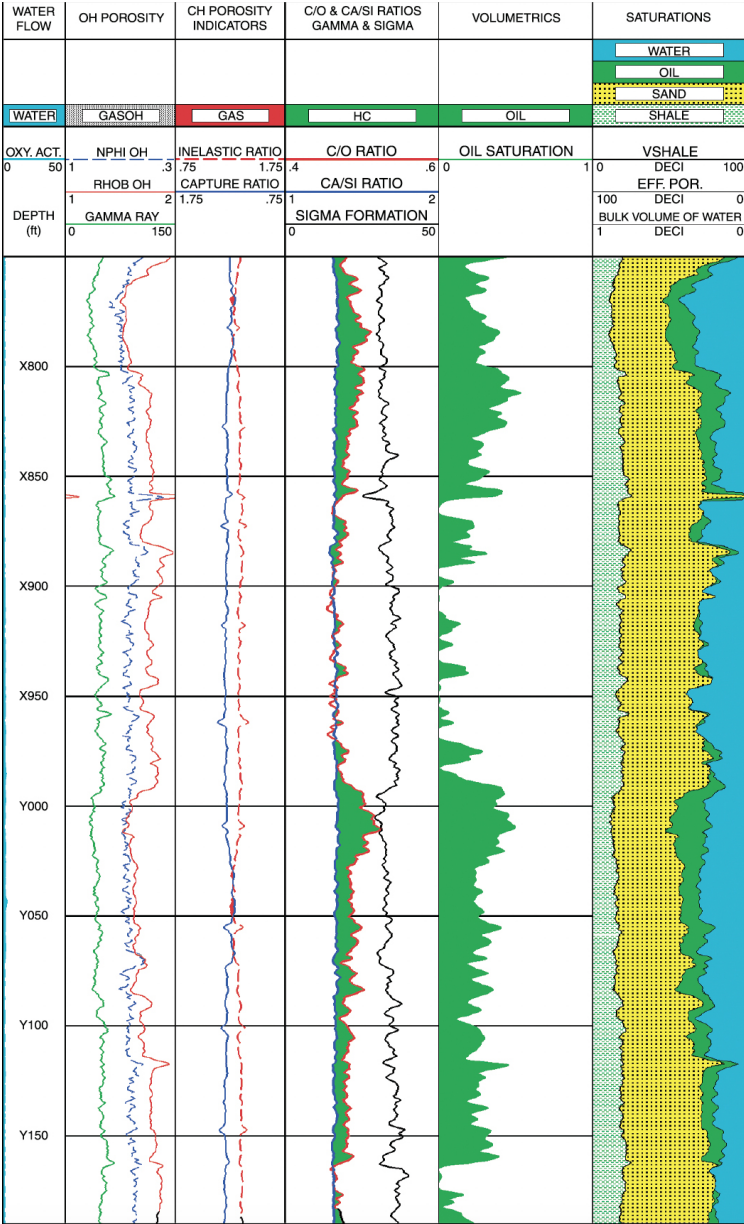
CarbOxSat™ MODEL	
Inputs	Clay Volume, Total Porosity, Effective Porosity, Environmentally Corrected Carbon/Oxygen and Calcium/silica Ratios
Outputs	Individual and Combined Clay Volume, Total Porosity, Effective Porosity, Capture-Ratio Porosity, Inelastic Ratio Porosity, Volume of Oil, Total and Effective Oil Saturations, Water Volumes

Track 1 contains the open hole Neutron and Density porosity curves, as well as the Gamma Ray curve. Track 2 contains the cased hole porosity indicators of a pseudo- Density curve from the inelastic ratio, and a pseudo- Neutron porosity from the capture ratio. Track 3 contains the Delta-C/O envelope indicating the C/O interpretation. Track 5 shows the total hydrocarbon saturation, and Track 6 is a volumetrics track containing the volume of shale, effective porosity, and the bulk volume of water to provide water and hydrocarbon saturation.

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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