

CBM GAS CONTENT(GC) and GAS-IN-PLACE(GIP) QUANTIFIED THROUGH-CASING WITH HDD™

CASE HISTORY: HDD™ resolution quantifies gas content and gas-in-place potentially replacing desorption analysis!

Challenge:

Quantify CBM and Shale gas content and gas-in-place estimates to reduce core and cuttings desorption/ proximate analysis frequency and costs.

Solution:

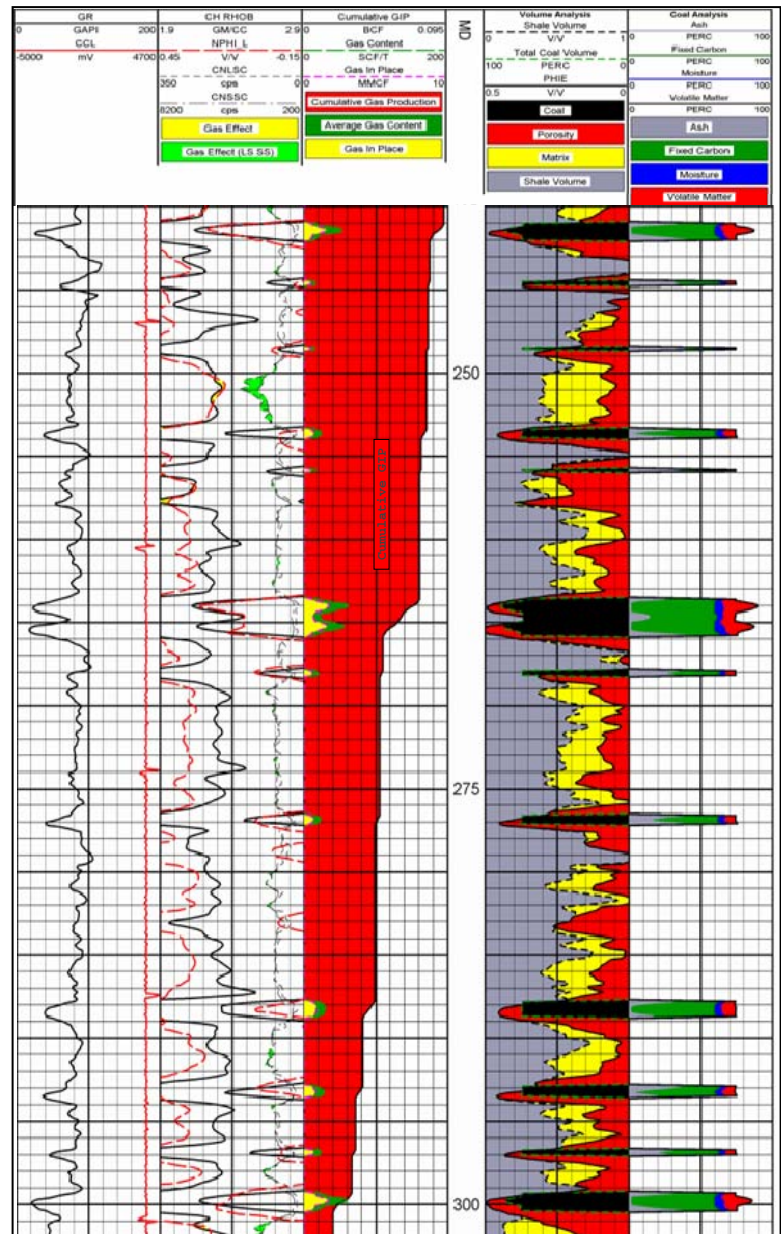
Use HDD™ High Definition Data, 132 samples per meter, the industry's highest sampling rate, and RECON through-casing neutron-density service.

Results:

An operator utilized RECON through-casing density-neutron logging service and Proximate Analysis interpretation to challenge a regulatory control well desorption requirement to estimate gas content and gas-in-place.

Desorption data from the well was submitted to an independent reserves analysis firm to confirm gas content, gas-in-place and estimate reserves. These results were then compared to the petrophysical analysis (Proximate Analysis) of the coal seams derived from through-casing density-neutron logs acquired and analyzed by RECON.

The result: GC and GIP derived from the through-casing bulk density and consequent petrophysical analysis matched closely to the values reported in desorption/ proximate analysis tests, resulting in an independent confirmation and endorsement of GC and GIP using RECON.



The log example shows, a detailed description of coal quality demonstrating volumes of ash, fixed carbon, volatile matter and moisture used to estimate GC and GIP for Coalbed Methane plays.