

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:

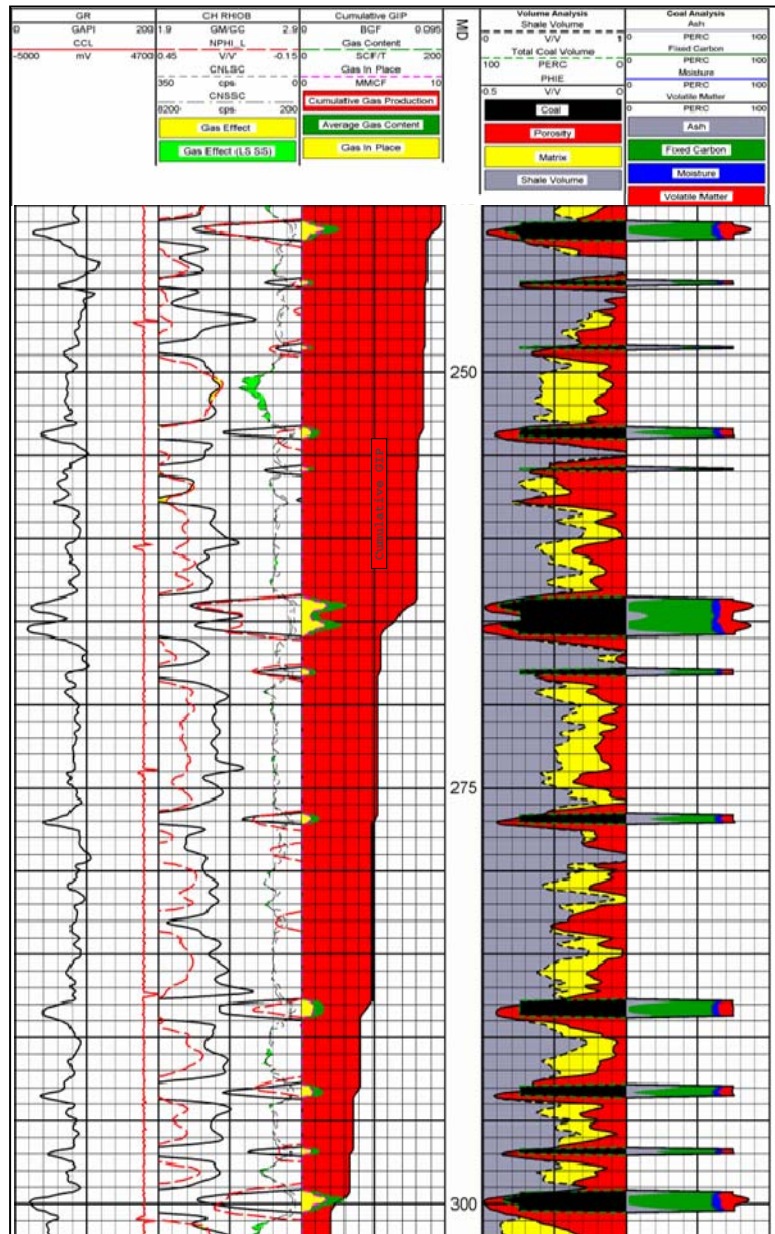
Use HDD™ High Definition Data, 40 sample/ft (132 samples/m), the industry's highest sampling rate, and RECON through casing neutron-density service.

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 GC and GIP.

Desorption data from the well was submitted to an independent reserves analysis firm to confirm GC, GIP 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.

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.