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ANALYSIS PACKAGE CODES

Code Analysis Included

Natural Gas Characterization using high precision dual inlet IRMS

NG-1 - Full GC composition, δ^{13} C & δ D of CH₄

NG-2 - NG-1 plus δ^{13} C of C_2H_6 and C_3H_8

NG-3 - NG-2 plus $\delta^{13}C$ of iC_4H_{10} and nC_4H_{10}

NG-4 - NG-3 plus δ^{13} C of iC₅H₁₂ and nC₅H₁₂

*-D - add δ^{13} C of CO₂ to any analysis package (e.g., NG-2-D)

Bacterial Gas Characterization

BG-1 - Full GC composition, δ^{13} C of CH₄ and CO₂ & δ D of CH₄

BG-2 - BG-1 plus ¹⁴C of CH₄

BG-3 - BG-2 plus ³H of CH₄

Dissolved Gas

DGS - Dissolved gas screening, quantification of dissolved CH₄, C₂H₆, C₃H₈

DG-1 - Full Dissolved Gas GC, δ¹³C & δD of CH₄

DG-2 - DG-1 plus δ^{13} C of C_2H_6 and C_3H_8

Mud Gas / Headspace Gas

MG-1 - Basic GC, δ¹³C of CH₄ via GC-C-IRMS

MG-2 - MG-1 plus δ^{13} C of C_2H_6 and C_3H_8 via GC-C-IRMS

Water Isotope Analyses

RAG - Radiocarbon analysis of groundwater - δ^{13} C and 14 C of dissolved inorganic carbon (DIC)

SIW - Stable isotopes package - δD and $\delta^{18}O$ of water and $\delta^{13}C$ of DIC

TDC - Tritium of water by liquid scintillation counter (LSC), detection limit of 10-15 TU

TEE - Tritium of water with electrolytic enrichment by LSC, detection limit of <1TU

Water Chemistry Analyses

WAB - Basic Suite - (Na+, K+, Mg2+, Ca2+) + (SO42-, Cl-), alkalinity, pH, conductivity, density

WAE - Environmental Suite - WAB + (Ba²⁺, Sr²⁺, Fe^{2+,3+}, Mn²⁺) + (F-, Br-, NO₃-, PO₄³⁻)

WAO - Oilfield Suite - WAB + (Ba²⁺, Sr²⁺, Fe^{2+,3+}, Mn²⁺, Li⁺, B³⁺) + (Br⁻)



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