ADVANCED HYDROCARBON STRATIGRAPHY (AHS)

Untapped Value from Well Cuttings

for Pay identification and Reservoir characterization

RVStrat[sm]- Rock Volatiles Stratigraphy

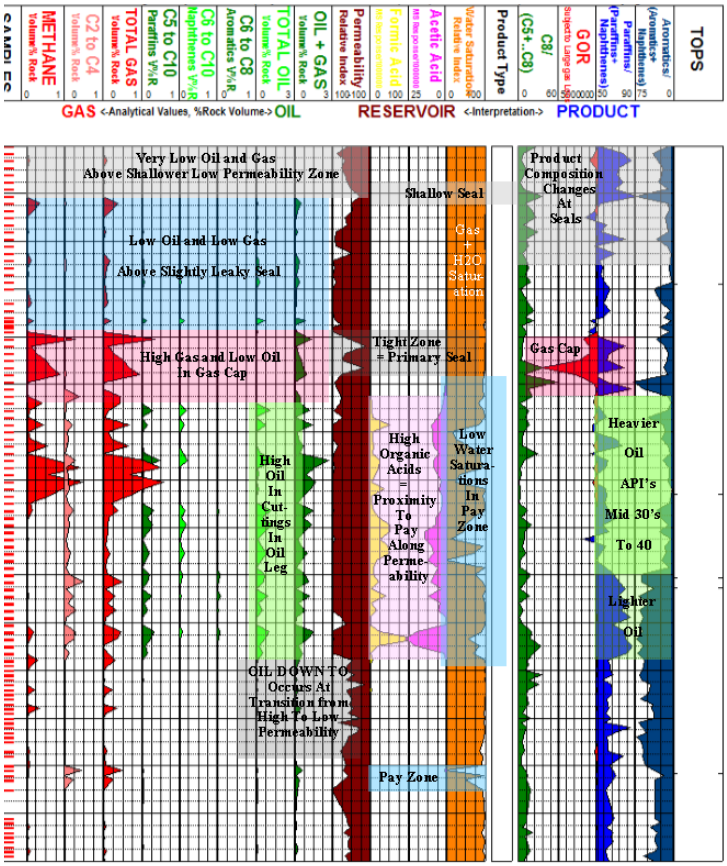
AHS technology provides **advanced volatiles well logs and innovative interpretation** from mass spectrometer analysis of **well cuttings, drilling muds and core samples**. Unconventional (pilots and laterals) and vertical conventional wells (old and new) can be analyzed; samples from oil-based muds and PDC drilling bits can be analyzed and interpreted.

AHS has developed an independent predictive analysis and interpretation for:

- **Pay identification & HC characterization (C_1-C_{10}):**
  - Pay zones, proximity to Pay
  - Water contacts, fresh H_2O
  - HC migration history
  - Estimated ultimate recovery (EUR)
  - API predictions (oil vs gas)
- **Rock properties prediction:**
  - Properties logging:
    - Perm (k) estimates
    - Mechanical strength
  - Reservoir compartmentalization:
    - Fault identification
    - Fracture recognition
    - Seal(s) detection
- **Report development & consultation:**
  - Volatile well logs:
    - HC's and rock properties interpretation
  - Operational recommendations within Ops time constraints:
    - Pay and missed pay identification
    - Landing zones identification
    - Proximity to pay indicators
    - **Completion recommendations:**

      Subsurface stage by stage performance
  - Mapping: HC and rock properties

Pay and Reservoir Volatiles Log



Sampling intervals of 10' to 30' are collected, analyzed and characterized for HC pay, proximity to pay, non-pay and rock properties to provide a comprehensive report and operational recommendations

Advance **H**ydrocarbon **S**tratigraphy's low-cost innovative patented technology is being utilized for production and exploration wells, conventional, unconventional and hybrid reservoirs in US domestic and international basins.

Contact **AHS** for your **hydrocarbon characterization, rock property** predictions and expert **consultation**.

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