CoreMemory™ Services
CREATE AN INTEGRATED AND SEARCHABLE DIGITAL RECORD OF YOUR CORES
Increased value of legacy and fresh coring depends on adequate data capture, organization, and access to visualization and analysis tools that increase certainty in defining production potential. The CoreMemory™ suite of services creates a digital record of the whole core, sidewall core, plugs, or cuttings, and conveniently delivers it through a portal that provides data access, visualization, and data analytics. With the Ingrain CoreMemory service and deliverables, the client will have total recall and never forget legacy cores.

Time to information costs money. Integrating geological, petrophysical, and reservoir engineering workflows and creating accessibility through the CoreMemory™ service portal amplifies the value of data, and it is ideal for data analytics.
FEATURES AND BENEFITS

The CoreMemory service provides a foundation for data mining and analysis, comprising the application of cutting-edge machine-learning methods. It includes the following services:

Features
» 2D and 3D imaging of legacy or fresh cuttings, plugs, and cores
» Core analysis and imaging data integration with well logs
» Integrated 2D and 3D visualization and analysis of core and log data
» Data import and integration of most physical core analyses
» Search and data mining capabilities
» Automated facies analysis based on logs, texture, mineralogy, and imaging that uses custom machine-learning recipes
» Optimized core analysis road map, with rock property upscaling using facies analysis

» Imaging facility deployed proximal to core storage
» Expedited preliminary data delivery available to meet time-sensitive client needs
» Data storage and visualization lab (VisLab) provided for use by client personnel

Benefits and Differentiation
» Preserve a digital record of the core through imaging and logging before further degradation with time
» Facilitate cross-discipline interaction to increase the value obtained from expensive coring programs
» Use a framework to upscale many rock-based analyses from pore, to core, and to well logs
» Integrate imaging and rock-based analyses
» Optimize core description activity by accessing the digital core repository from the office prior to visiting the physical repository
» Receive a cost-optimized core analysis road map through calculated rock properties

COREMEMORY SERVICES IMPLEMENTATION

The CoreMemory service deploys differently for each of the following three common situations:
1. When a new core repository is under construction
2. When an existing core repository wants to sell its data
3. When new wells with core are drilled, or fresh interest from core in an existing repository exists

An imaging center, proximal to the core storage/handling facility, will be designed and operated in collaboration with the client.

The VisLab can be built:
» Within the core repository that is external to the client’s primary place of operation
» Within client’s primary place of operation
» At a Halliburton facility

Data transfer between the imaging center and the VisLab will be designed and operated in collaboration with the client.

Regular maintenance, software upgrades, user training, and support are available.

CASE STUDIES

To request details about case studies, please contact your Halliburton representative.
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