Integrated Core Data Management in Kuwait Oil Company

Huda J. Al-Aradi[1]

[1]E&P IM, KOC, Ahmadi, Kuwait.

ABSTRACT

Core is one of the main data throughout lifecycle of subsurface activities within Exploration, Development and Production. Significant increase of E&P activities would immediately growth the volume of core data. This requires comprehensive data management especially to have high quality and accurate data, and provide effective workflows, consistent and better accessibility. Core reports are loaded into eSearch as physical asset and are accessible to users. While the inventory of physical core samples is stored in excel file and it has no association with core reports. With no central database of digital core samples, analysis, and interpretation, users have to read entire core reports or browsed through the content of an entire CD and shared drive, to look for relevant core data. This is very time consuming and prone to errors. In terms of repatriation of physical core, KOC may not have an effective control on physical core samples that are remain with the vendor and may not be adequately inventoried. This means the samples may be missing, damage, or destroyed without sufficient record being kept. KOC has a vision to consolidate and enhance existing Core Data Management process and technology and to implement a comprehensive corporate wide Core Data Management workflow. A Core Data Management has been performed by implementing an inventory of KOC core data in centralized repository with physical cores and reports in eSearch and digital data in ProSource, association of core samples and reports, and integration between eSearch and ProSource. This ensures data availability and data quality improvement throughout all departments, enhances current core data management, and improves core data delivery to the end users by providing proper workflow and technology. There are several major business benefits arising, One-stop shop for all core related data. Access to integrated physical and digital core data from a single Interface. Accessibility improvements. Comprehensive solution to provide high quality and accurate data, and effective workflows, consistent and better accessibility. Reduce searching and tracking time, increase the usage of core data, and allow users to have more time for interpretation and analysis. Single control over core data to allow full inventory of assets to be maintained. Improve core data delivery to the end users. Long term protection of digital assets and possibility to maintain a full disaster recovery system.