Vendor Independent Integration Solutions

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ABSTRACT

A significant problem in the petroleum industry for decades is the issue of data availability. By many estimates, geoscientists and engineers spend more than half their time locating, organizing, reformatting, loading, and checking data before any interpretive work can be done. Despite the "digital revolution" and increasingly sophisticated application software, we still spend an enormous amount of time hunting for and integrating data. Although major software vendors promise to deliver fully-integrated applications, these solutions are rarely as complete as advertised. Tatweer Petroleum developed innovative, vendor-independent integration solutions to integrate its multiple cross-discipline applications (e.g. Landmark OpenWorks, Petrel, OFM, WSM, ArcGIS, File-Net). A paper on these integration solutions was presented on GEO2015 Now going beyond integration between applications, these same approaches were used to develop custom solutions for sophisticated data quality control, analysis, and queries. Using the collection of integration solutions and custom-developed database links produced we developed cross-discipline data management systems which provides geoscience and engineering interpreters as well as reservoir engineers with the data needed for an operations-focused organization. Guided by the creativity drive of Tatweer Petroleum's Subsurface Studies Data Management team; these in-house developed systems are providing Subsurface end users with easy-to-use graphical interfaces to track data availability, allow advanced data queries, and provide data mining and export functionalities across multiple databases and applications among other functions: - Monitoring the well status and gauging exactly how well is the well performing overall - Accessing different databases from a single interface to review data, create maps, and generate Well reports - Easily Determine Well Statistics, Simplify Reporting (Production Growth Focus (PGF), Monthly Status Report (MSR), Time to Market report (TTM) - Generating production wedge given the cold and thermal type curves per area and based on rig schedule. Taking into account cold production may vary during Full Field developments - Mining Through thousands of archive documents to get specific data