

Emergent Approach for Data Management in E&P Business Case Study

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Exploration and Production (E&P) companies realize the importance of good technical data and the role which it plays in Exploration success. Geoscientists and engineers focus on maximizing hydrocarbon extraction by understanding and exploiting field geological and formations data. To achieve their challenging goals, they use sophisticated software to perform virtual field characterizations and analysis which generates terabytes of valuable intellectual data and information. This is one example, and there are many more by which new data is being generated, and stored each day. Companies are investing into hardware and software to tackle these problems, but lack the basic guide lines or policies to manage the growing data volume. This has led to even more problems and waste of valuable resources and funds. One of the key requirements for E&P companies is to have a well defined data management strategy.

OMV (Pakistan) Exploration has accumulated data since its inception in 1991. The amount of data has grown exponentially over last 15 years. This paper describes the challenges that OMV (Pakistan) Exploration and Reservoir Department faces related to management of its data and outlines effective practices for addressing these challenges and summarizes complementary relevant solutions.