

Meaningful Geoscientific Data Collection, Curation and Integration in Petroleum Exploration and Development Endeavors

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Abstract

Geoscientific data used in petroleum exploration and development workflows derives from a large variety of sources and disciplines including geology, sedimentology, geochemistry, geophysics, petrophysics, biostratigraphy and chronostratigraphy. There are often hundreds of millions of records, from a variety of sources, without a common reference framework. Aggregating and analyzing the different data sources into a coherent data repository poses an expensive and time-consuming task for companies and their data teams. Rigorously curating the data sets and header data allows the task to be automated with data transformation and curation scripts into a useable format. With a case study from the Powder River Basin, this talk will demonstrate how a solid foundational dataset can be used to meet the challenge of integrating geosciences data with driven business decision making.

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