Ensuring Communication Across Software Systems

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Abstract

The amount of information generated when each well is drilled has increased in volume over the years. Integrating these different forms of information so they may be compared and used when planning new wells has become a challenge.

Additionally there are different companies that capture the same data type but present it in different formats, adding to the communication complexity. There is the added challenge of how to utilise old data that is not in the new formats, this data may be in the form or spreadsheet databases, word processor documents or sometimes in hard copy that cannot be searched electronically unless it is in good enough condition that it may be scanned and then Optical Character Recognition (OCR) may be used.

These challenges increase when companies take over assets from other companies that have used different software to capture their data. The company that has taken on the new asset must now take on new software if it wishes to analyse the well information that it has received. This requires the generation of new workflows or attempting to export information across different software systems, which can be very challenging.

Two approaches are available, either ensures that all companies work to a common format for the information, of use bridging software that can read all of the different types of data and then present it in a simple format that is makes the data usable.

This paper looks at the use of an overarching Data Management system that can accommodate many different forms of data and then present that in a format that allows the faster and more accurate quality control and decision making.