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THE DIGITAL OILFIELD: EXTENDING RESERVE LIFE THROUGH THE USE OF COLLABORATIVE DIGITAL SURVEILLANCE (CDS)

The 31S-Reservoir Management Team (RMT) at Oxy Elk Hills, Inc. has developed a water flood reservoir surveillance process using an existing 3D Visualization center as a central collaboration tool.

The use of this process offers the following advantages:

- Allows the Asset team to make better and faster business decisions
- Provides a common platform to increase production and add reserves
- Improves productivity among a multi-disciplined asset team
- Promotes cross functional training and overall ownership

Use of a visualization (viz.) center for 3D seismic review and well planning has been available to the industry for some time, and is a common practice for most E&P oil companies.

Recently, the 31S-RMT at Oxy Elk Hills has started to utilize the 3D visualization center to bring a multi-disciplined reservoir management asset team together for water flood reservoir surveillance. The team developed “middleware” to allow the data to move between the different software packages for use in the visualization center.

This presentation will discuss the surveillance review process and illustrate the advantages of multi-disciplined team collaboration.