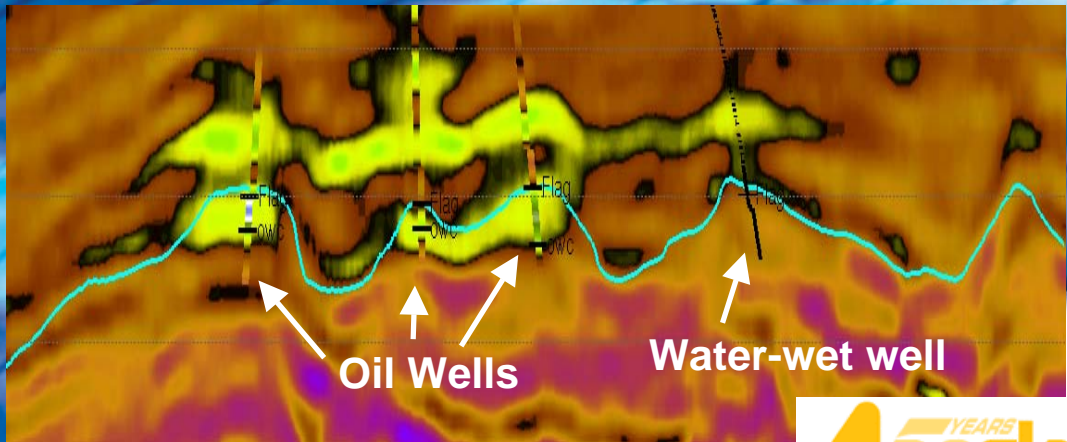


# Hydrocarbon Identification through Jason technology



*Hydrocarbon identification from a combination of P-impedance and Vp/Vs information obtained through Jason simultaneous AVO inversion.*



## Objectives

The Varanus area, offshore North Western Australia, has seen a series of oil and gas fields discovered since 1979. The known oil fields are nearing depletion and Apache's goal is to drill additional wells to ensure the complete development of the area.

The study objectives are to improve mapping of the top reservoir and to characterize the fluid distribution within the reservoir rocks.

## Implementation

The Harriet Joint Venture of Apache, Kufpec and Tap Oil selected Jason's **simultaneous AVO inversion** services to develop the desired P-impedance and Vp/Vs information, for lithology and fluid characterization.

## Results

The applied Jason technology demonstrated the ability to more accurately define the top reservoir, shows good agreement with the known oil fields and explains the water-wet wells.

For more information, read 2004 ASEG paper "Reservoir Characterization of the Flag Sandstone, Barrow Sub-basin, using an integrated, multi-parameter seismic AVO inversion Technique"

**JASON**

#1 in reservoir characterization



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