# Guillemot North-West Field: Seismic Interpretation versus Ultra-Deep Resistivity Inversion on a Successful Late Life Infill Producer

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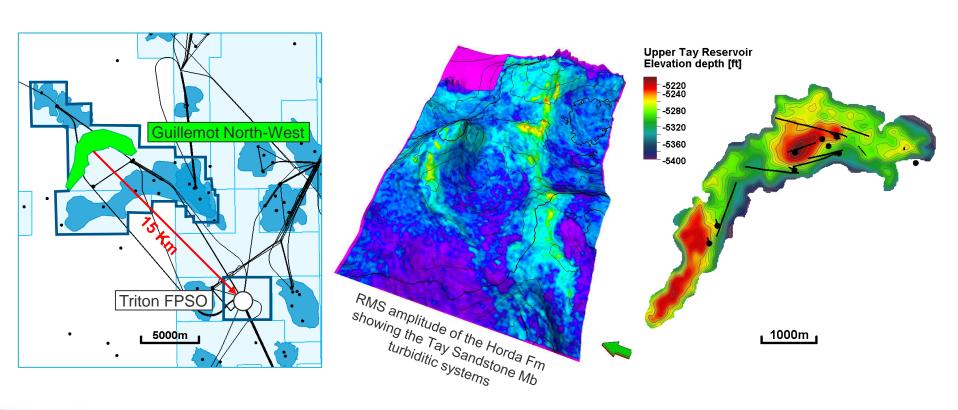
**Andy Davis** 

Thanks to the Triton area JV partner Serica Energy for supporting this talk Thanks to the Sperry Drilling Geosteering team in Halliburton Acknowledgements to TGS for the Polarcus 2012 Catcher data



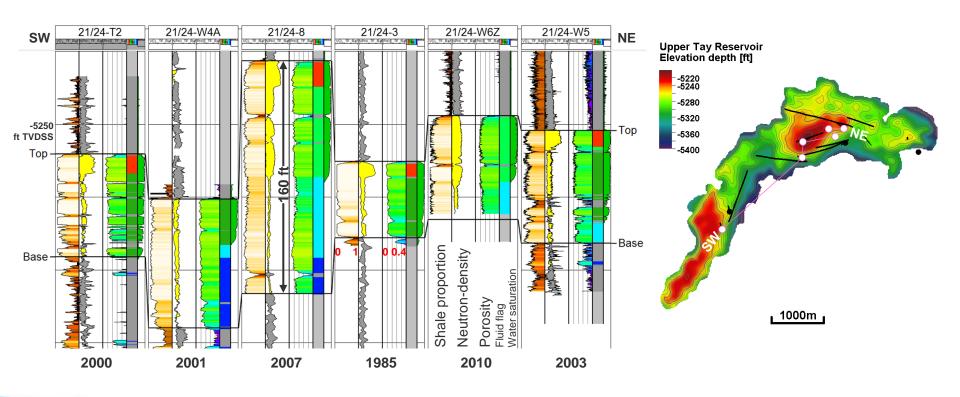
## **Guillemot North-West Overview**





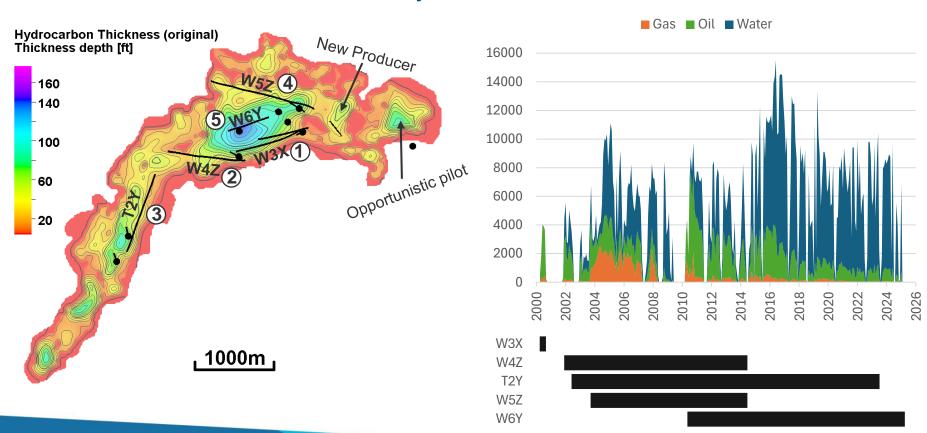
#### **Guillemot North-West Reservoir**





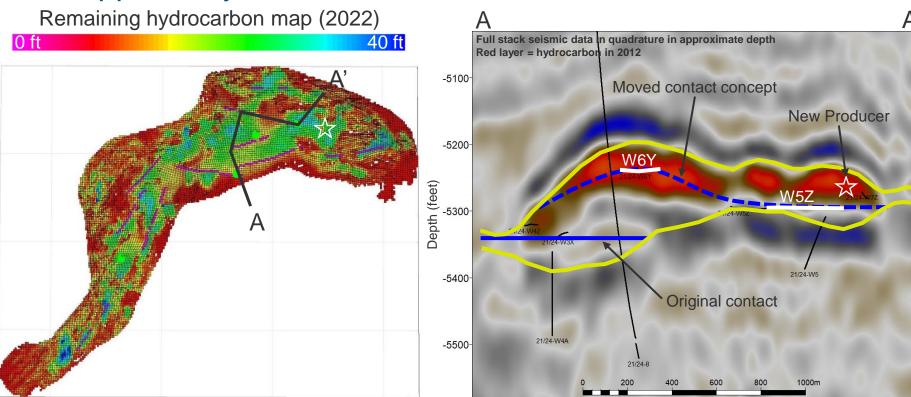
## **Guillemot North-West History**





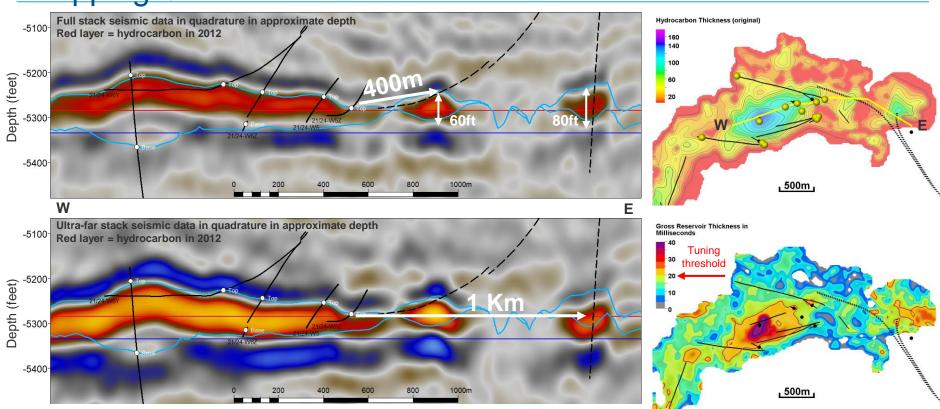
## **Infill Opportunity Overview**





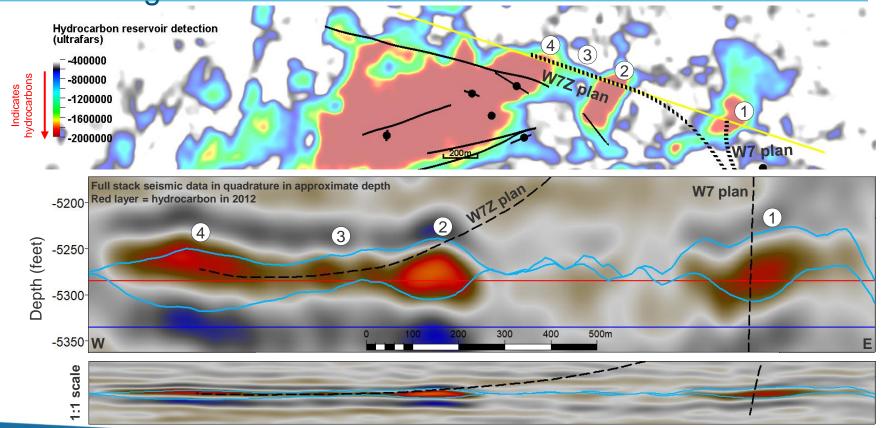
## **Mapping Uncertainties**





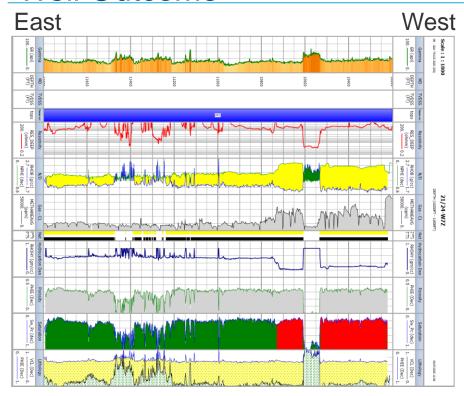
Well Planning

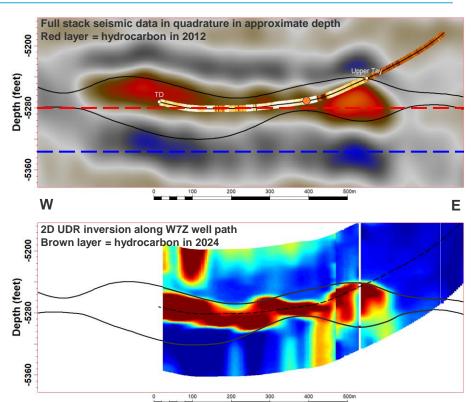




#### Well Outcome

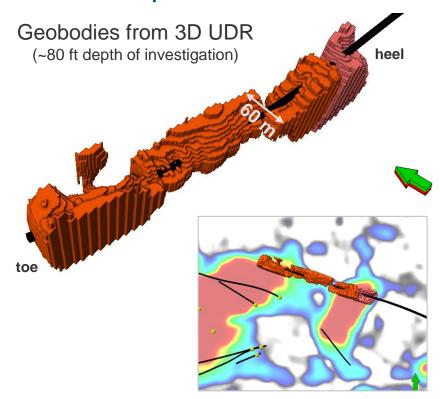


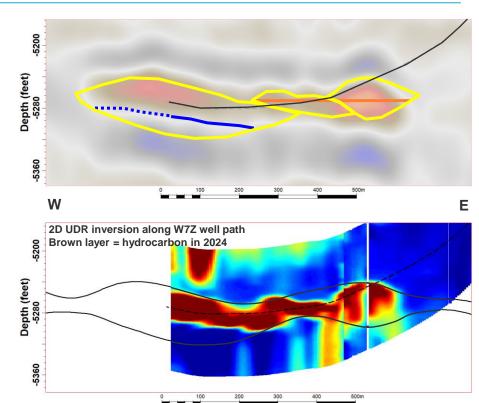




## Well Interpretation

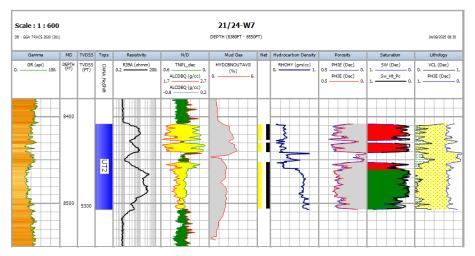


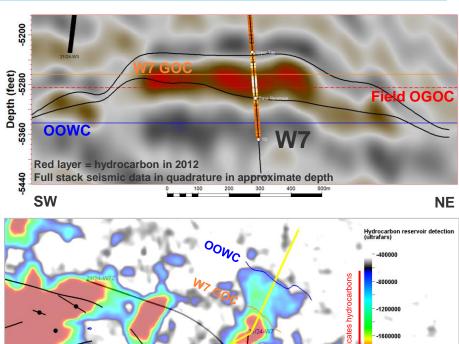




## Pilot Hole Results







250m

#### Conclusion



- Using UDR instead of landing pilot paid-off
  - Typical small volumes made more economic by cheaper option
- Real-time UDR imaged the reservoir before entry and kept the well in hydrocarbon after landing
  - Typical geosteering
- Post-drill UDR calibrated seismic responses, informed on internal architecture, and imaged present-day contact
  - Seismic interpretation turned out correct despite cumulating uncertainties
  - Despite decades of data and interpretation, there are still (interesting) things to learn
- Opportunistic pilot paid off and confirmed untapped pool of hydrocarbon
  - Also unlocked other peripheral opportunities
  - Currently rebuilding the model and assessing further potential infill targets
- We're still drilling wells in the North Sea

