

More Productive Wells: Unlocking the potential of a North Sea reservoir with TRU-ARMS advanced reservoir mapping service

CHALLENGES

- Optimize wellbore positioning of the drain hole for maximum productivity within challenging reservoir
 - Variable distribution of reservoir facies
 - Complex geological structure with faults and fracture networks
 - Low resistivity contrast
- Mapping remote areas of the reservoir offers insights into potential reservoir facies for subsurface model updates and future development targets

SOLUTION

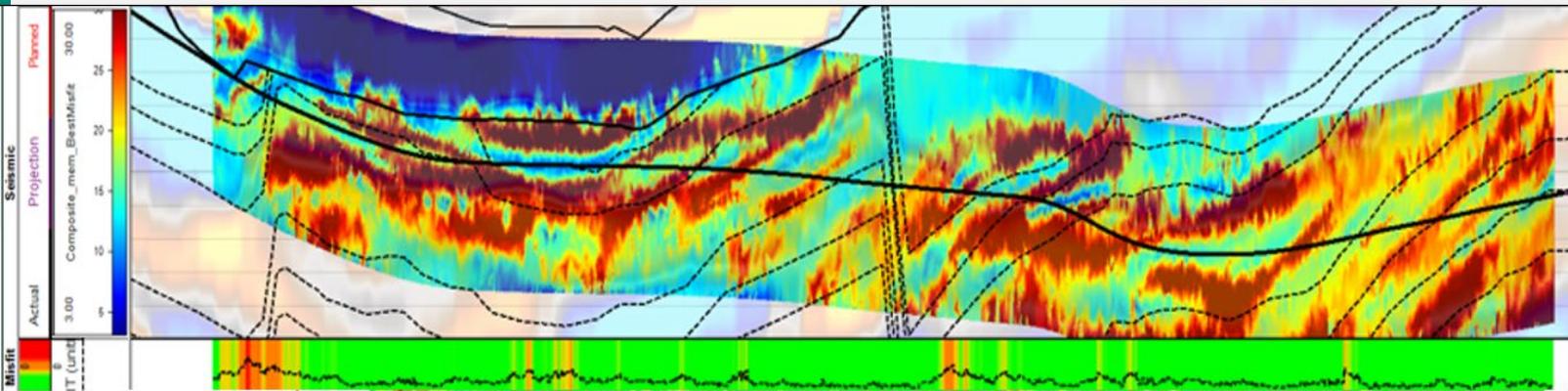
- [TRU-ARMS™ advanced reservoir mapping service](#) employs full tensor multi-frequency and components, along with dual spacing options, to effectively support both geosteering and geomapping efforts
- [GaffneyCline™ energy advisory](#) comprehensive pre-well planning with multiple scenario modelling and detailed execution planning

RESULTS

- Record production rate. The well achieved an “unusual level of success” in this mature oilfield
- Optimized well placement and mapped the reservoir to depths not previously achieved
- Inversions used to tie in with seismic data in real time
- Identification of fault zone and throw by TRU-ARMS service
- Potential remote reservoir facies identified
- Comprehensive while drilling formation evaluation for completion design optimization
 - Formation pressures, poro-perm from NMR, high resolution, acoustic imaging for fracture determination

The production results marked a “global first” for the customer, with the well achieving an “unusual level of success” in the largest oilfield in the UKCS.

– Energy Voice Report, 2025



ADDITIONAL TECHNOLOGIES AVAILABLE

Formation evaluation

- LithoTrak™ advanced LWD porosity service
- TesTrak™ real-time formation pressure and mobility data
- SoundTrak™ acoustic formation measurement service
- MagTrak™ lithology independent nuclear magnetic resonance (NMR)

Directional services

- AutoTrak™ eXact rotary steerable system
- CoPilot™ real-time drilling optimization

Spotlight
on new
TECHNOLOGY

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World Oil
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