MNSH Prime 3D

PROGRAM DESCRIPTION

MNSH PRIME 3D is a multi-client new acquisition program that covers approximately 11,700km2 of the UK continental shelf of the northern fringe of the Southern Permian Basin (SPB), from Dogger Shelf to the Main Mid North Sea High (UKCS quadrants 34, 35, 36, 37, 38, 41, 42, 43 and 44). The data set will be acquired in multiple phases with the first phase available in April 2021.

COMMERCIAL

The UK continental shelf of the North Sea has been producing hydrocarbons since the first seismic exploration in the mid 60's and the SPB has been at the forefront of that exploration activity, with numerous hydrocarbon discoveries in the Carboniferous to Triassic.

The northern fringe of the SPB represents one of the last under explored sections of the prolific UK continental shelf, and is now an area of industry focus after recent play-opening wells with further drilling planned. The existing infrastructure and proximity to the shore makes this an attractive location for future investment.

GEOLOGICAL

The MNSH PRIME 3D regional data set provides the perfect platform to unravel the entirety of the Upper Permian (Zechstein) Hauptdolomit carbonate play, defining the extent and providing a clear image of the protuberance of the anhydrite carbonate platform and panicle growths. The UKCS portion of the SPB has historically been successful for gas exploration indeed another name for this region is the "Southern North Sea Gas Basin" with reservoirs mainly in the Carboniferous to Triassic and to date the Northern fringe of the and Upper Permian play has remained under explored in the UK.

However, the rest of the SPB has seen successful oil campaigns on the fringe within the Zechstein e.g. Barnowko-Mostno-Buszewo field in Poland and with the UKCS fringe 42/4-1Z well containing oil with a good flow rate the play is now proven in the UKCS.

ION is leveraging new acquisition and the latest processing flows to provide high quality 3D seismic product that will support the industry as they seek to maximize the value of these remaining reserves.

KEY COMPONENTS:

- → Phase 1 Full flow PSDM completion time April 2021.
- → 3D coverage and improved imaging over vintage datasets
- → Continuous survey for regional interpretation
- → Phase 2 acquisition 2021 season.