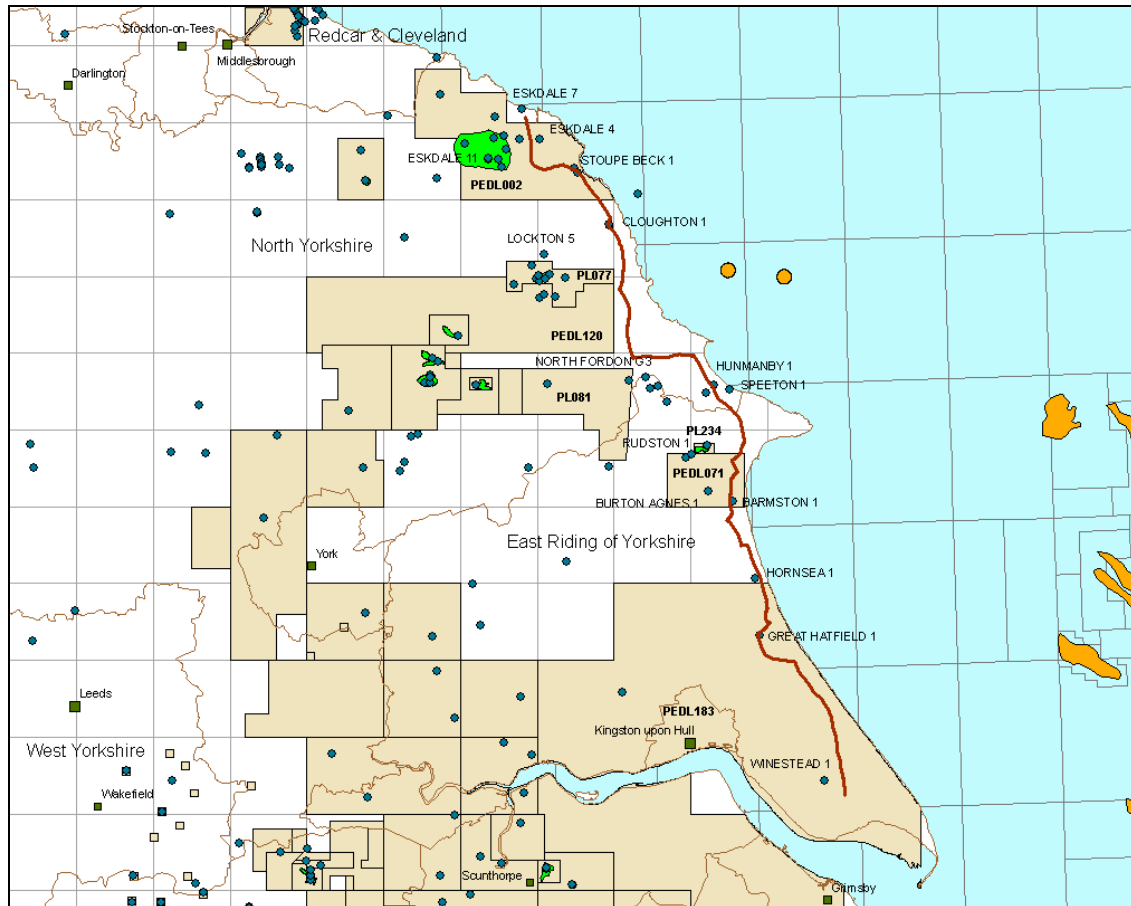


UKOGL-RG-003 - Whitby (N) to Humber (S)

This profile runs close to the coast along a classical section of British Geology, passing through good well control and giving an excellent view of structure and stratigraphy in the sequence from the base of the Permian up to the Cretaceous Chalk and some indication of the underlying Carboniferous rocks.

The line begins close to Whitby, in the region of the Eskdale gasfield, and passes through the Robin Hood's Bay anticline on its way south to the deep Carboniferous high tested by well Coughton 1.

It then runs south past Scarborough to tie the Hunmanby 1 well, with a relatively full sequence of Middle and Upper Jurassic rocks beneath the Lower Cretaceous, before passing over the zone of the Flamborough Head Disturbance. The complexities of this onshore extension of the offshore Sole Pit Inversion can be seen quite clearly in the section and nearby well ties are available at Caythorpe and Rudston.

South of this disturbance, the stratigraphic tie can be re-established at Barmston 1. This demonstrates that the Middle Jurassic and most of the Upper Jurassic has now been eroded, with the uppermost Jurassic Spilsby Sandstone overlying the Lower Lias and overlain in turn by the Upper Cretaceous Chalk.

The profile continues south to Hornsea 1, where artificial caverns leached in the Permian salt are used to store natural gas, through Great Hatfield 1 and almost to the Humber Estuary. A final tie is available to nearby well Winestead 1, which confirms seismic indications of the Middle and Upper Jurassic sequence coming back in beneath the Upper Cretaceous Chalk at this southern end of the profile.