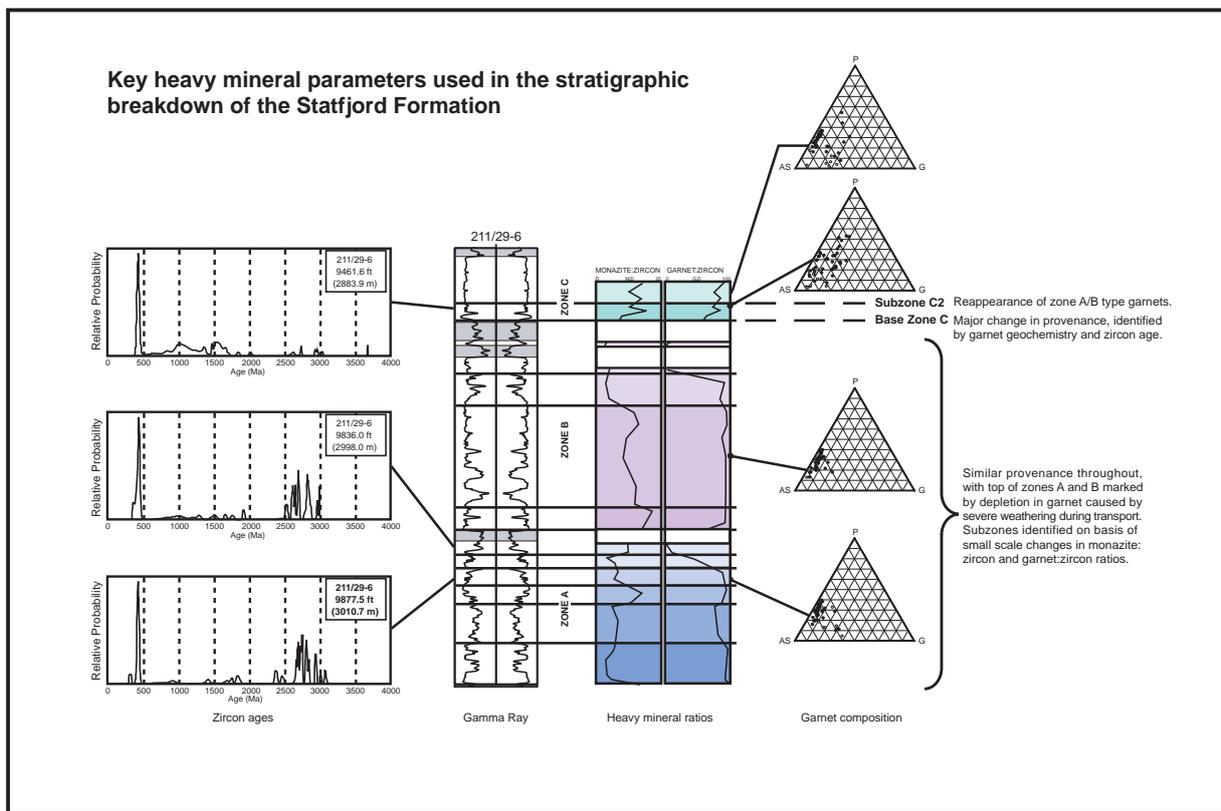
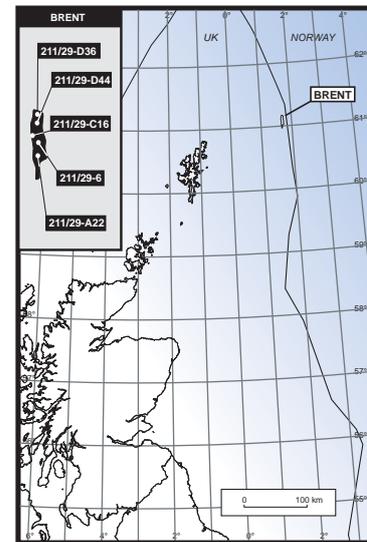
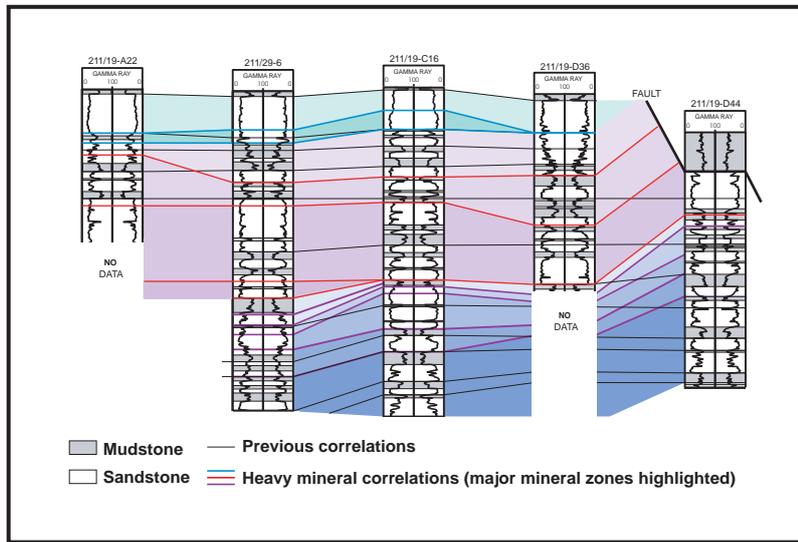


Heavy mineral correlation of reservoir sandstones

Staffjord Formation, Brent Field



Heavy mineral correlation of reservoir sandstones is based on a combination of mineral ratios and mineral chemistry. Three major heavy mineral zones (A, B, C), are present in the Staffjord Formation of the Brent Field. Garnet composition and zircon age data show that base of zone C is a major change in provenance. Garnet depletion at the tops of zones A and B is due to prolonged floodplain weathering, since zircon data show no change in provenance. Fluctuations in monazite:zircon and garnet:zircon (related to heterogeneities within the source regions) enable further subdivision.