

Atlantic
Ireland
An exciting petroleum province

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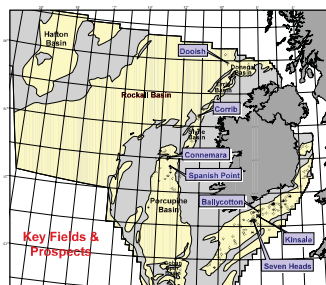
Petroleum Affairs Division
Department of Communications, Marine and Natural Resources

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Executive Summary

The Atlantic Basins of Ireland are an under-explored frontier petroleum province with proven working hydrocarbon systems. A new evaluation of the area, sponsored by the Petroleum Affairs Division, includes a major revision of the tectonic and deposition systems evolution.



Atlantic reconstruction shows the juxtaposition of the Porcupine and Rockall basins with the Orphan Basin of Eastern Canada. This reconstruction has shed light on the depositional environments and sediment transport directions. These new models show the likelihood of regional world class Upper and Lower Jurassic source rocks. Reservoir distribution at four stratigraphic levels controls the following play systems:

- Permo-Triassic play (proven by the Corrib and Dooish discoveries)
- Middle-Upper Jurassic deltaic and shelf plays
- Lower Cretaceous syn-rift shelf and basinal plays
- Tertiary shelf and basinal plays

Source rock modelling, prospect evaluation, and analogue basin review show a risked yet to find potential of at least 10 billion barrels of oil equivalent. The structural style allows for the presence of giant un-drilled structures.



NORTH ATLANTIC PLAYS			
Stratigraphy	Reservoir	ATLANTIC IRELAND PLAYS	OFFSHORE EASTERN CANADA PLAYS
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