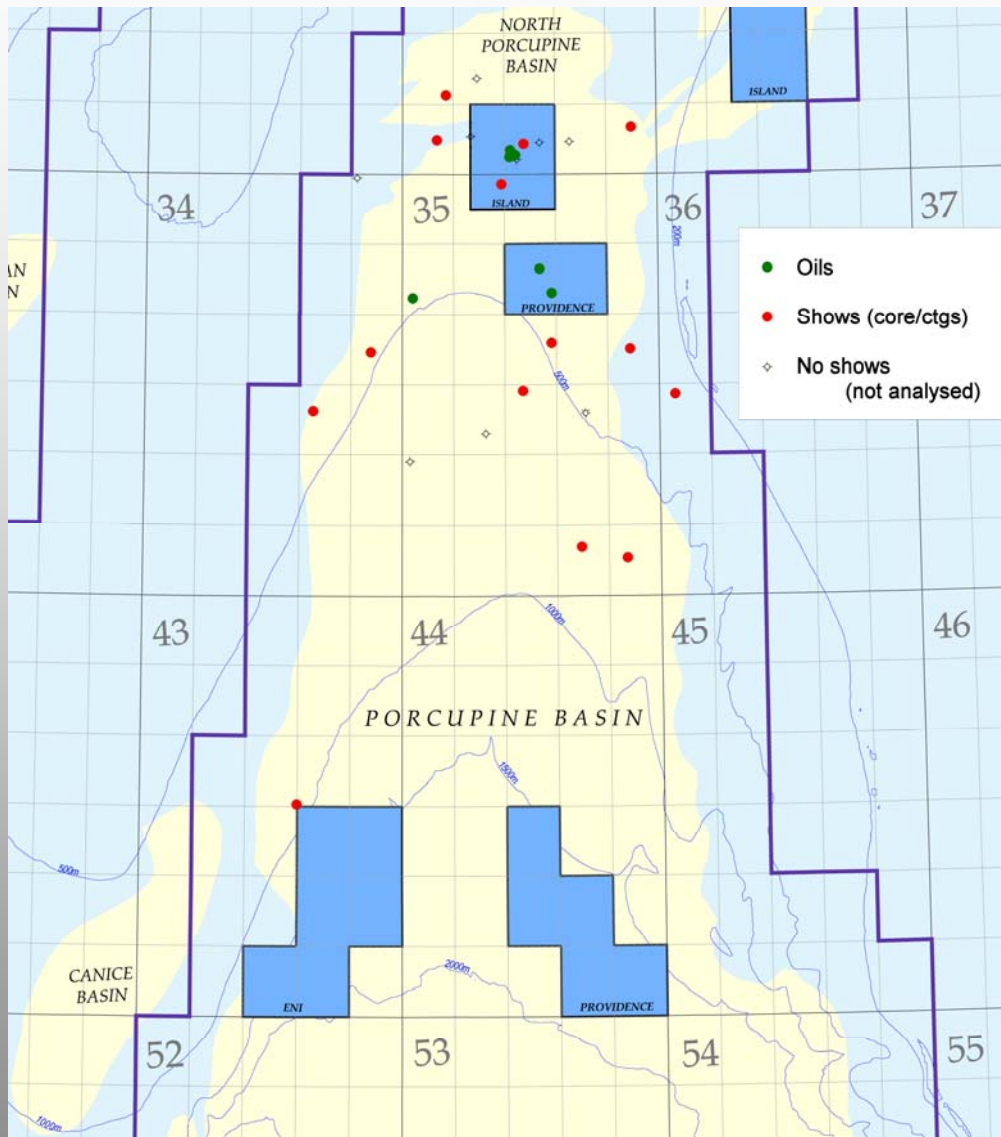


2007 PORCUPINE BASIN LICENSING ROUND

THE IRISH PORCUPINE BASIN HYDROCARBONS

A DETAILED GEOCHEMICAL CHARACTERISATION OF PROVENANCE AND QUALITY



APT UK is pleased to announce the availability of a new high quality analytical database of all flowed oils and shows in wells drilled to date.

A pre-requisite for understanding effective petroleum systems in the Porcupine Basin.

This project has been carried out with the support and assistance of the Petroleum Affairs Division.



Department of Communications, Energy and Natural Resources
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www.pad.ie

THE IRISH PORCUPINE BASIN HYDROCARBONS



As exploration and exploitation of hydrocarbons on the North West European continental margin continues, interest is inevitably turning to the Porcupine Basin, one of the least well understood and under explored basins along the Frontier North Atlantic margins.

To date only 26 exploration wells have been drilled in this large basin, most (21) being drilled in the period 1977-1982 with a few additions (5) in the period 1985-2001. Hydrocarbons have been found in most wells, including the presently non-commercial Connemara Field and significant flow encountered in three other prospects including the Spanish Point (35/8-2) and the 35/8-1 and 35/6-1 wells. A total of 18 of the 26 exploration wells encountered good shows of oil in potential reservoirs of variously Carboniferous, Jurassic, Cretaceous and Tertiary age. We would suggest that this basin merits further evaluation using modern approaches and techniques.

The key issues to address the uncertainties in understanding of the petroleum system are to determine:

1. How many effective source rocks there are in the basin. This is readily assessed using high quality geochemical data derived from the known hydrocarbon evidence in the basin. As already outlined above, many of the exploration wells drilled have encountered hydrocarbons throughout the stratigraphic column.
2. The likely quality of hydrocarbons that will be encountered in future drilling. This can also be addressed by detailed analyses of the fluids.

These controls lie behind the decision by APT UK to carry out this project with the support and active contribution of the Petroleum Affairs Division of the Irish Department of Communications, Energy and Natural Resources. This support is gratefully acknowledged.

This project addresses one of the outstanding issues by providing a high quality analytical database which characterises 76 different shows from 18 wells spread across the drilled portion of the basin. In addition 9 flowed oil samples have been analysed in detail (see map overleaf and table listing below for details of wells studied). The shows have been extracted from core or cuttings samples and analysed in the world class APT AS laboratories in Oslo. The report contains the raw data and an interpretation of the biomarker compositions and carbon isotopes ratios.

Well name	Oils	Cores/ctgs	Well name	Oils	Cores/ctgs	Well name	Oils	Cores/ctgs
26/21-1	No test	7 / 2	26/30-1	No test	9 / 5	35/15-1	No test	1 / 1
26/22-1A	No shows		34/5-1A	No shows		35/17-1	No shows	
26/26-1	No test	8 / 3	34/15-1	No test	18 / 10	35/18-1	No test	3 / 2
26/27-1B	No shows		34/19-1	No test	13 / 3	35/19-1	No shows	
26/28-1	3	1 / 1	35/2-1	No test	8 / 4	35/21-1	No shows	
26/28-2	2	-	35/6-1	1	11 / 5	35/29-1	No test	8 / 2
26/28-3	No test	5 / 3	35/8-1	1	8 / 5	35/30-1	No test	3 / 2
26/28-4Az	No shows		35/8-2	1	13 / 6	36/16-1A	No test	9 / 4
26/28-A1Z	1	-	35/13-1x	No test	10 / 3	43/13-1	No test	3 / 2
26/29-1	No shows		6 - No. of rock extracts screened / 5 - No. of detailed biomarker studies					

The report is available in digital and hard copy formats, price on application. Group participation rates are also applicable at an attractive discount.

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