

## West of Shetland Islands Geochemistry Study

### Summary of data and scope of the study

	Samples	Wells	Note
<b>Oils</b>	<b>32 (~30)</b>	<b>28</b>	<b>15 (13) fields, 6 wildcats, all new 2011 data</b>
<b>Oil stains</b>	<b>231 (120)</b>	<b>60 (42)</b>	<b>24 fields, 33 wildcats, all new 2011 data</b>
<b>Gases</b>	<b>45</b>	<b>18</b>	<b>Mostly (43) archive data</b>
<b>Source rocks</b>	<b>195</b>	<b>32</b>	<b>125 KCF + others, all new 2011 data</b>
<b>Maturity (Ro)</b>	<b>&gt;2500</b>	<b>&gt;85</b>	<b>Almost all archive data</b>

The WOSI study has compiled a comprehensive and internally consistent database of new analyses of oils, proxy oils, and source rocks. All available legacy data has been collated and reviewed, very large numbers of analytical data have been accessed from a variety of archives. These include: Vitrinite reflectivity & temperature, TOC & Rock-Eval pyrolysis, test results, API gravity & GOR and gas analysis data.

Source rocks have been characterised. Oil families have been identified and their relationships to the source rocks assessed. The maturity, mixing and degradation histories of oils have been described. The thermal history of the basin, source rocks and reservoirs has been modelled with the aid of PGS Mega Merge surfaces. 1D modelling of wells and pseudo wells has been undertaken and the results presented.

