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British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

The palynology of Faroe-Shetland Basin well 204/28-1 between 1916.00 and 1939.05 m

Energy Systems and Basin Analysis Programme

Commissioned Report CR/18/003

BRITISH GEOLOGICAL SURVEY

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J B Riding

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British Geological Survey offices

BGS Central Enquiries Desk

Tel 0115 936 3143 Fax 0115 936 3276

email enquiries@bgs.ac.uk

Environmental Science Centre, Keyworth, Nottingham NG12 5GG

Tel 0115 936 3241 Fax 0115 936 3488
email sales@bgs.ac.uk

The Lyell Centre, Research Avenue South, Edinburgh EH14 4AP

Tel 0131 667 1000 Fax 0131 668 2683
email scotsales@bgs.ac.uk

Natural History Museum, Cromwell Road, London SW7 5BD

Tel 020 7589 4090 Fax 020 7584 8270
Tel 020 7942 5344/45 email bgslondon@bgs.ac.uk

Cardiff University, Main Building, Park Place, Cardiff CF10 3AT

Tel 029 2167 4280 Fax 029 2052 1963

Maclean Building, Crowmarsh Gifford, Wallingford OX10 8BB

Tel 01491 838800 Fax 01491 692345

Geological Survey of Northern Ireland, Department of Enterprise, Trade & Investment, Dundonald House, Upper Newtownards Road, Ballymiscaw, Belfast, BT4 3SB

Tel 028 9038 8462 Fax 028 9038 8461

www.bgs.ac.uk/gsni/

Parent Body

Natural Environment Research Council, Polaris House, North Star Avenue, Swindon SN2 1EU

Tel 01793 411500 Fax 01793 411501
www.nerc.ac.uk

Website www.bgs.ac.uk
Shop online at www.geologyshop.com

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Summary

As part of Phase 3 of the BGS Faroe-Shetland Consortium project on the Jurassic of the UK sector of the Faroe-Shetland Basin, detailed logging of core from well 204/28-1 was undertaken. Eleven core samples were taken for palynology between 1916.00 and 1939.05 m in order to provide age determinations and additional facies information. However, the samples all proved barren and extremely sparse in terms of palynomorphs and kerogen respectively. Residues of liquid hydrocarbons were recognised. Therefore, no biostratigraphical or palaeoecological interpretations can be drawn.

1 Introduction

As part of detailed sedimentological logging of conventional core from offshore well 204/28-1, eleven samples between 1916.00 and 1939.05 m were collected for palynological analysis in order to provide biostratigraphical ages and palaeoecological information. The samples were all prepared using standard acid-based techniques. The samples, aqueous residues and microscope slides are held in the BGS collections at Keyworth, Nottingham. The eleven samples are listed in Appendix 1.

2 Palynology

All eleven samples studied here proved entirely barren of palynomorphs. The organic residues proved extremely sparse. Furthermore, the kerogen associations obtained were not countable. All the horizons studied yielded small, black globular bodies which probably represent liquid hydrocarbons. As a consequence, no biostratigraphical or palaeoecological conclusions can be made.

3 Conclusions

No palynomorphs were recovered, and the kerogen associations proved sparse. Residues of liquid hydrocarbons were recognised. Hence, no biostratigraphical or palaeoecological interpretations can be drawn.

Appendix 1- list of samples (measured depths).

Informal No.	BGS Registration No.	Depth (m)
1	MPA 67604	1916.00
2	MPA 67603	1921.88
3	MPA 67602	1924.35
4	MPA 67601	1924.77
5	MPA 67600	1926.57
6	MPA 67599	1928.73
7	MPA 67598	1930.19
8	MPA 67597	1934.30
9	MPA 67596	1936.07
10	MPA 67595	1937.80
11	MPA 67594	1939.05