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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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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