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## **Consents given under the Petroleum Act 1998 and Reviews under the Assessment of Environmental Effects Regulations 1999**

### **Jackdaw**

#### **BG**

BG Group is planning to undertake an up to four well exploration and appraisal drilling programme, the primary purpose of which is to determine the extent and economics of the HPHT (High Pressure High Temperature) Jackdaw prospect in block 30/2a. Jackdaw Well 2 is contingent on the results of Jackdaw Well 1. In addition, North Calloway, a HPHT exploration well, in block 30/8 and a single HPHT well, Mandarin, in Norwegian waters are planned.

The Jackdaw well is currently scheduled to commence being drilled in September, using the Rowan Gorilla VI heavy duty jack-up rig. It is anticipated that it will take approximately 158 days to drill each well, including testing, a total of 474 days in UK waters.

Both Water Based Mud (WBM) and Low Toxicity Oil Based Mud (LTOBM) will be used. Approximate total WBM cuttings discharged to the seabed for each well will be 989 tonnes with 364 tonnes discharged direct to the seabed. Total LTOBM cuttings collected and shipped to shore for each well will be 2002 tonnes.

Well tests may be necessary if sufficient hydrocarbon bearing substrates are encountered in the reservoir. If a test is required, the maximum flow rate will be 35 million standard cubic feet. A maximum of 2000 tonnes would be flared per well over a total flow period of up to 96 hours at each location.

On completion, the wells will be plugged and abandoned with the casing being cut below seabed level and all surface obstructions removed.

As a result of an environmental risk assessment there were the following potentially significant aspects identified and addressed within the ES:

- Physical Presence
- Seabed Disturbance
- Noise
- Atmospheric Emissions
- Marine Discharges
- Solid Waste
- Accidental Hydrocarbon Spill

Mitigation measures are in place to ensure that impacts are kept to a minimum.

Based on the information in the environmental statement consent has been given for the project.

Webmaster: [Danny Stocker](#)

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