



Offshore Petroleum Regulator
for Environment & Decommissioning

Apache Beryl I Limited

Garten Field Development

Environmental Statement Summary

To: Jonathan Ward

From: Mark Shields

Date: 24th July 2018

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| ES Title: | Garten Field Development |
| Developer: | Apache Beryl I Limited |
| Consultants: | Xodus Group |
| OGA Field Group: | Northern North Sea |
| ES Report No: | D/4220/2018 |
| ES Submission Date: | May 2018 |
| Block No: | 9/18 |
| Development Type: | Field Development |

Project Description

Apache Beryl I Limited (Apache) is proposing to develop the Garten field located in Block 9/18. The field is located 164 kilometres (km) from the nearest UK coastline in the Shetland Islands and 15 km from the UK / Norway median line. The water depth in the area is approximately 113 metres (m).

The field will be developed using a single well tied-back to the existing Buckland Intermediate Towhead (BIT) via a 115 m 6" production flexible and a 160 m control umbilical, which will be installed adjacent to the BIT production flowline. The pipeline system will be surface laid on the seabed and, where necessary, protected by concrete mattresses and grout bags. Produced hydrocarbons will be comingled with production from the Buckland field and routed back to the Beryl Alpha platform. No modifications to the Beryl Alpha platform are required. Gas will be exported via the SAGE pipeline and oil will be exported via tanker. First production is anticipated in Q4 2018, and production is expected to continue until approximately 2033.

Anticipated oil production will be greater than the 500 tonnes per day threshold and gas production will be greater than the 500,000 m³ per day threshold specified in the EIA Directive (Directive 2011/92/EU as amended by Directive 2014/52/EU) and an Environmental Statement (ES) was therefore required under the Offshore Pipelines (Assessment of Environmental Effects) Regulations 1999 (as amended).

Key Environmental Impacts

The ES identified and discussed the following key issues with the potential to result in an environmental impact:

- Physical presence of installed infrastructure;
- Increased chemical use and discharge;
- Increased produced water discharge;
- Increased atmospheric emissions; and
- Accidental events.

Key Environmental Sensitivities

The ES identified and discussed the following key environmental issues that could be impacted by the proposals:

- **Commercial fish species:** The Garten field is located within spawning grounds for cod, haddock, Norway pout, saithe, mackerel and Norway lobster; and within nursery areas for blue whiting, European hake, haddock, ling, Norway pout, whiting, herring, mackerel, anglerfish and Norway lobster. However, the spawning and nursery areas are extensive, and the field development is unlikely to have any significant impact on these species.
- **Seabirds:** Seabird sensitivity to oil pollution is low throughout the year, and it is considered that there are sufficient mitigation measures in place to prevent accidental spills that could have a significant impact on seabirds. Apache has an approved Oil Pollution Emergency Plan (OPEP) in place for the Beryl Alpha facilities and related operations.
- **Protected habitats:** The Garten field is located approximately 54 km north of the Braemar Pockmarks SAC. The increase in production is not expected to have any significant impact on this or any other protected habitat.
- **Protected species:** Four cetacean species are likely to occur in Block 9/18, the harbour porpoise, white-beaked dolphin, minke whale and killer whale. The harbour porpoise is the most frequently recorded, with moderate numbers during July and low numbers in April and May. Grey and common seals inhabit coastal and inshore waters adjacent to Scotland and have occasionally been observed to travel long distances when foraging. However, both species are unlikely to be present in large numbers in the Garten field area. No disturbance of marine mammals, or any other adverse impacts on marine mammals, are anticipated in relation to the increase in production.
- **Other users of the sea:** The development is located within ICES rectangle 47F1, and relative fishing effort in the area is moderate. Shipping density in the vicinity of Block 9/18 is low. Appropriate navigational controls will be put in place during installation operations to prevent adverse effects on other users of the season.
- **In-combination, cumulative and transboundary effects:** No significant in-combination, cumulative or transboundary effects are anticipated as a result of the Garten field development.

Key Mitigation Measures (including environmental or monitoring conditions)

No significant adverse impacts are anticipated that would warrant specific mitigation

measures or monitoring conditions. All activities will be undertaken in line with commitments detailed in the ES and best industry practice.

Consultation

The Joint Nature Conservation Committee (JNCC), Marine Scotland (MS), the Maritime and Coastguard Agency (MCA), Ministry of Defence (MoD) and Northern Lighthouse Board (NLB) were consulted on the proposals. The Health and Safety Executive (HSE) were also notified of the proposals, and the ES was subject to public notice.

JNCC: JNCC confirmed that they had no objections.

MS: MS confirmed that they had no objections.

MCA: MCA confirmed that they had no objections.

MoD: MoD confirmed that they had no objections.

NLB: NLB confirmed that they had no objections.

No comments were received from the HSE or in response to the public notice.

Further Information

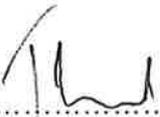
Further information was requested from Apache to address issues raised during the BEIS OPRED review of the proposals. The additional information received from Apache on 13th July 2018 satisfactorily addressed all of the issues that were raised.

Determination

Following review of the ES, the responses received from consultees and the additional information provided by Apache, BEIS OPRED is satisfied that the proposals will not have a significant adverse impact on the receiving environment or the living resources it supports, or on any protected habitats or species or other users of the sea.

Conclusion

On the basis of the information presented within the ES, the advice received from consultees and the additional information provided by Apache, BEIS OPRED is content that there are no objections, and agrees to the OGA issuing the necessary consent for the proposed development. This agreement is not subject to any specific environmental conditions.


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Jonathan Ward
Director, Environmental Operations
BEIS OPRED

24/7/18
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Date

