Apache Beryl I Limited

Storr Field Development
Environmental Statement Summary

To: Jonathan Ward
From: Sarah Rogers
Date: 12th December 2018

<table>
<thead>
<tr>
<th>ES Title:</th>
<th>Storr Field Development</th>
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<tbody>
<tr>
<td>Developer:</td>
<td>Apache Beryl I Limited</td>
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<td>Consultants:</td>
<td>Xodus Group</td>
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<td>OGA Field Group:</td>
<td>Northern North Sea</td>
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<tr>
<td>ES Report No:</td>
<td>D/4222/2018</td>
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<td>ES Submission Date:</td>
<td>21st September 2018</td>
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<tr>
<td>Block No:</td>
<td>9/19b</td>
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<td>Development Type:</td>
<td>Gas and Condensate Development</td>
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Project Description

The Storr field is located in Block 9/19b in the northern North Sea approximately 174 kilometres (km) from the Shetland Isles coastline and approximately 4 km from the UK / Norway median line, in a water depth of approximately 118 metres (m).

Apache Beryl I Limited (Apache) propose to develop the Storr field with a single well (Storr SCN) that will be tied-back to the existing Skene manifold via a new 6 km 8” production pipeline and 6 km umbilical. Production will then be transported to the Beryl Alpha platform in Block 9/13 via an existing network of pipelines, for processing prior to export. The new pipeline and umbilical will be installed on the seabed and protected by rock placement, mattresses and grout bags.

Production is scheduled to commence in Q3 2019, with anticipated peak production of approximately 2,500,000 m³ per day of gas and 1,100 tonnes per day of condensate in 2020.

Key Environmental Impacts

The Environmental Statement (ES) identified and discussed the following as having the potential to result in an environmental impact:

- Physical presence of subsea infrastructure including protective deposits;
- Interactions with other sea users;
- Additional atmospheric emissions;
- Increased chemical use and discharge requirements;
- Increased produced water discharge volume; and
- Accidental events.

**Key Environmental Sensitivities**

The ES identified the following environmental sensitivities:

- **Fish:** The Storr field is located within spawning grounds for cod, haddock, Norway pout, saithe, mackerel and Norway lobster; and within nursery areas for anglerfish, blue whiting, haddock, hake, ling, herring, mackerel, and Norway lobster. However, the spawning and nursery areas are extensive and the proposals are unlikely to have any significant impact.

- **Seabirds:** Seabird vulnerability is low from January to March and May to September. There is no data for April or October to December. It is considered that there are sufficient mitigation measures in place to prevent accidental spills that could have a significant impact on seabirds, and Apache will be required to have an approved Oil Pollution Emergency Plan (OPEP) in place before offshore operations are undertaken.

- **Protected habitats:** The Storr field is located approximately 43 km from the Braemar Pockmarks Special Areas of Conservation (SAC). The proposals are not expected to have any significant impact on the SAC or any other protected habitat.

- **Protected species:** Harbour porpoise have been recorded in Block 9/19b during April, May and July. 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 Storr field area. No significant disturbance or any other adverse impacts on marine mammals are anticipated.

- **Other users of the sea:** The development is located within ICES rectangle 47F1, and relative fishing effort in the area is considered high. Shipping density in the vicinity of Block 9/19b is considered very low. Appropriate navigational controls are already in place, and it is not anticipated that there will be any significant impact on other users of the sea.

- **In-combination and cumulative effects:** No significant in-combination or cumulative effects are anticipated.

- **Transboundary effects:** Hydrocarbon modelling of a well blow out indicated potential transboundary effect in Norwegian, and to a lesser extent, in Danish and Swedish waters. However, appropriate mitigation and response measures are proposed. There is also a minor risk that discharged drill cuttings could be relocated to Norwegian waters. Norway was invited to comment on the ES and did not offer any comments, and it is not anticipated that there be any significant adverse transboundary impacts.

**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), the Ministry of Defence (MOD) and the 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 did not raise any objections.
MOD: MOD did not raise any objections.
NLB: NLB did not raise any objections.

The HSE did not raise any objections and no comments were received in response to the public notice.

Further Information

Further information was requested from Apache to address issues that were raised by consultees and during the internal OPRED review. The information requested related to option selection, piling activity, rock dumping, drill cuttings disposal, emissions and oil spill modelling. The additional information provided by Apache on 5th and 11th December 2018 addressed all the issues that were raised.

Determination

Following review of the ES, the responses received from consultees and the additional information provided by Apache Beryl I Ltd, BEIS OPRED is satisfied that this project 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.

Recommendation

On the basis of the information presented within the ES, the advice received from consultees and the further information by Apache, BEIS OPRED is content that there are no objections to the proposals, and agrees to the OGA issuing the necessary consent for the proposals. BEIS OPRED is also content that there are no specific mitigation or environmental conditions directly related to the proposals that need to be attached to the OGA consent.

Jonathan Ward
Director, Offshore Environment Unit
BEIS OPRED

[Signature]

Date: 17/12/18