Infrastructure Code of Practice

Armada



The **Armada** hub installation consists of Drake, Hawkins and Fleming gas/condensate fields, with SW and NW Seymour and Maria fields in the UK Sector, Rev and Gaupe fields (third party fields operated by Repsol Norge AS and AS Norske Shell) in the Norwegian Sector, all of which are tied back to Armada.

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| Key Facts | | | | | |
|----------------------------|---|--|--|--|--|
| Field | Armada | | | | |
| Block | 22/5b | | | | |
| Sector | U.K. Central North Sea | | | | |
| Approx. distance to land | 132 nautical miles East of Aberdeen | | | | |
| Water Depth | 89 metres (292 feet) | | | | |
| Hydrocarbons Produced | Gas condensate and gas | | | | |
| Export Method | Armada gas is exported via the CATS pipeline to Teesside, while the produced liquids go via the Forties Pipeline System (FPS) to the Kinneil processing plant at Grangemouth. | | | | |
| Manned / Unmanned | Manned | | | | |
| Operated /Non-Operated | Operated | | | | |
| % of Harbour Energy Equity | 100.0% | | | | |
| First Production | October 1997 | | | | |
| Accommodation On Board | 62 | | | | |
| Key Commercial Terms | None | | | | |

| Infrastructure information | | | | | | | | |
|--|---|--|--|--|--|--|--|--|
| Entry Specification: | Produced fluids must be commercially free of odours, materials, sand and solids/fluids that might interfere or cause injury to the proper operation of the Armada facilities; which for the avoidance of doubt shall include any material that would affect the merchantable value of Armada products. | | | | | | | |
| Exit Specification: | To meet the required specifications of Central Area Transmission System (CATS) for export gas and the Forties Pipeline System (FPS) for export condensate. | | | | | | | |
| Outline details of Primary separation processing facilities: | The Armada platform has a single gas processing train and a single condensate processing train for the Armada topsides well fluids and the Rev, Gaupe, Northwest Seymour and Maria subsea well fluids. Initial stage separation for the Armada topside well fluids is through a three-phase vertical separator. Initial stage separation for the Rev subsea well fluids is through a three-phase horizontal separator. Initial stage separation for the Gaupe, Northwest Seymour and Maria comingled subsea well fluids and Seymour Horst topsides well fluids is through a three-phase horizontal separator. | | | | | | | |
| Outline details of gas treatment facilities: | The Armada gas processing facilities comprise a single gas compression train from the gas outlet of the three inlet separators. The gas compression train | | | | | | | |

| consists of booster compression followed by TEG dehydration and export compression. |
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| High Level Capacity Information | | | | | | | | | | | |
|---|------------|--------------------------------|-----------------------------------|-------|----------------------------|---------|--|--------------------|--|--|--|
| The basic capacity information over the next 5 years. | is portray | yed by | colour | coded | 'traffic | lights' | that reflect threshold | ds of availability | | | |
| >25% capacity available | | 5% caj ava | 5% - 25% capacity available | | < 5% capacity available | | | | | | |
| Armada Platform firm processing capacity available | | Ullage as % of system capacity | | | | acity | Comment | | | | |
| | | 2023 | 2024 | 2025 | 2026 | 2027 | | | | | |
| Oil export capacity | | | | | | | 23,200 bbl/day (based on Condensate Export Pumps) | | | | |
| Gas compression | | | | | | | 115 mmscfd (at 10 barg plant front end pressure) | | | | |
| Gas export capacity | | | | | | | Governed by compression | | | | |
| Gas lift capacity | | | | | | | None | | | | |
| Produced water handling capacity | | | | | | | 10,000 bbl/day | | | | |
| Dehydration capacity | | | | | | | 330 mmscfd (at 10 barg plant front en pressure). | | | | |
| H2S removal capacity | | | | | | | None | | | | |
| Water injection capacity | | | | | | | None | | | | |

Disclaimer:

While this information has been prepared in good faith, no warranty or representation (implied or express) is made as to its accuracy, completeness or relevance for use by any other party and no liability is accepted by Harbour Energy under any circumstances relating to the information and the use thereof.

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