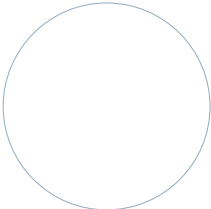
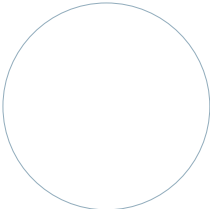
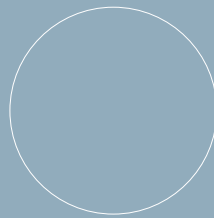
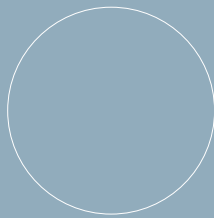


bluewater

Aoka Mizu FPSO

Ettrick Field, North Sea





Aoka Mizu FPSO

Bluewater is utilising the FPSO Aoka Mizu for the project, which has undergone an extensive conversion programme. Bluewater’s FPSO Aoka Mizu was built in Japan and further completed including accommodations, topsides and disconnectable turret mooring systems in Singapore. The fleet was completed in Singapore. The first contract for Aoka Mizu operates in the Ettrick field, located in the Outer Moray Firth about 120 km Northeast of Aberdeen in blocks 20/2a and 20/3a.

The Aoka Mizu’s main features are:

- Providing a safe and stable platform for floating production facilities
- Production of well fluids through operation and control of the subsea system
- Minimising the environmental impact resulting from the production of well fluids
- Processing incoming well fluids and separating these into oil, water and gas
- Storing crude at the required temperature and Reid Vapour Pressure
- Treating produced water for re-injection into the reservoir
- Treating seawater for injection into the reservoir, mixed with produced water
- Injecting chemicals for process enhancement and protection of subsea and process equipment (Flow Assurance)
- Treating and compressing produced gas for export, gas lift and fuel
- Offloading crude to tandem moored shuttle tankers
- Exporting gas through a subsea pipeline system
- Providing accommodation for operations and maintenance personnel which also serves as a safe area with life-saving and evacuation equipment
- Providing a safe landing area for helicopter operations

Vessel data

Length	248.12 meters
Breadth moulded	42 meters
Depth moulded	21.2 meters
Draft, design + scantling	14.9 meters
Dead weight tonnage	105,000 dwt
Deck area	7,985 m ²
Topsides area	6,000 m ²
Deck payload	7,000 tonnes
Accommodation	84 persons

Location

Field name	Ettrick Field, North Sea
Blocks	20/2a, 20/3a
Water depth	110 meters

Performance data

STORAGE CAPACITIES

Exportable crude (98%)	95,000 m ³ (600,000 bbls)
Slop tanks (98%)	7,150 m ³ (45,000 bbls)
Fuel oil (98%)	2,982 m ³ (18,000 bbls)

PROCESSING CAPACITIES

Fluid capacity	35,000 bfpd
Crude production	30,000 bopd
Produced water	20,000 bwpd
Gas lift	18 MMscfd
Gas export	20 MMscfd

STABILISED CRUDE

RVP	10 psi
BS&W	≤ 0.5%

WATER INJECTION

Capacity	55,000 bwpd
Oxygen content	≤ 1 ppb

GAS COMPRESSION

Capacity	35 MMscfd
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OFFLOADING

Parcel size	500,000 bbls
Offloading rate	5,200 m ³ /hr

Angola Brazil China Malaysia Nigeria Russia The Netherlands United Kingdom United States