

### Project Scope

TWMA was contracted by Maersk Oil North Sea UK Ltd to contain, process, reuse and recycle drilling wastes produced offshore while drilling the 16 inch and 12¼ inch sections of a well on the Ensko 101 drilling rig in the Culzean oilfield in the North Sea.

### TWMA Solution

Over 9,700ft of 16 inch top section and 1,449ft of 12¼ inch section was drilled. The subsequent drilling wastes were contained using TWMA's EfficientC system which then transferred the materials to TWMA's 950kW TCC RotoMill for final processing.

The total volume of drilling wastes processed at source was 1,722.03Mt with a throughput of over six tonnes per hour and a TCC RotoMill running time of 284.80 hours.

The total amount of recovered oil reused in mud systems during the project was 1,893 barrels of oil. The total volume of recovered water and recovered powder was 226,760 liters and 1,205.23MT respectively.

### Project Results

TWMA's involvement in this project resulted in minimal waste being transported ashore to landfill, no offshore or onshore crane and forklift movements and no requirement for bulk transfer tanks, supply vessels or the associated logistics chain.

A team of TWMA personnel handled this project from installation, commissioning and operation to complete project management. Approximately 5,500 man hours passed during this operation with no incident, accident or environmental issue.

From the total volume of drilling wastes handled and processed during this project the percentage of materials recovered were as follows:

- 17.4% oil – 100% recovered and reused in mud system
- 13.1% water – 100% recovered and dispersed
- 69.5% recovered solids– 100% recovered and dispersed

*"TWMA was contracted by Maersk Oil North Sea UK Ltd to manage and process drilling waste produced during drilling on the Ensko 101 rig. TWMA personnel handled this project from installation, commissioning and operation to complete project management."*

*Ally Parker –  
Maersk Account Manager*