“Example of a GBS Installation and Topsides Platform Heavy Lift”
Scope of Work

Platform
- Project Management
- Engineering
- Procurement
- Topsides & Lattice Tower Fabrication
- GBS Construction
- Subsea Template Fabrication
- Topsides Loadout, Transportation & Installation
- GBS Tow & Installation
- Hook-up & Commissioning

Oil Loading System
- Design, Procure, Install & Commission

New Gas Export Pipeline
- Design, Procure, Install & Commission
The Gravity Base Structure

WATER DEPTH 60 metres

CAISSON QUANTITIES
CONCRETE 28,030 m³
REINFORCEMENT 10,430 t
PRESTRESSING 1,686 t
SKIRT STEEL 700 t (3 m deep)
BALLAST 35,000 t (concrete)

CAISSON PROPERTIES
90 m LONG X 108 m WIDE (o/all)
x 16.4 m HIGH

LATTICE TOWER PROPERTIES
18.5 m x 15 m (at deck i/f) x 66 m HIGH
1250 t DRY WEIGHT
The Topsides

**PROCESS THROUGHPUT**
- 8000 m³/day (50,000 bpd) OIL
- 2 Mm³/day (70 MMscfd) GAS
- 2400 m³/day (15,000 bpd) WATER

**MAIN SYSTEMS**
- SINGLE TRAIN, 3 STAGE SEPARATION AND GAS COMPRESSION FACILITY
- 2 No. 24 Mw GAS TURBINE MAIN POWER GENERATORS
- 80,000 bpd WATER INJECTION PLANT

**DECK PROPERTIES**
- 85m LONG X 25m WIDE X 14m HIGH
- 6,500t DRY WEIGHT

**ACCOMMODATION**
- 57 POB LIVING QUARTERS
GBS installed at template guided by locating piles

GBS constructed in graving dock

GBS by Taylor Woodrow at BARMAC, Nigg

Deck installation

Transportation to South Arne field

Final assembly, onshore hook-up, commissioning and loadout

Aug 1997 - Jun 1998

Wallhead
Production
Utilities

Individual units fabricated under cover

Topsides fabricated by BARMAC at Ardersier

Drilling and testing first well at South Arne field

Drill rig moves away to enable Rockwater to install locating piles

Template installed, by drill rig, over first conductor. Drill rig continues drilling

Wellhead
Dec 1997
Jan 1998

Feb 1998

April 1999

April 1999

March 1999

March 1999

Sept 1997 - Feb 1999

Aug 1997 - Jun 1998

Story Board Displaying How the Job was Done
Graving Dock Flooding & Float-out

GBS being floated within the graving dock
Topsides Floatout

Topsides being floated out from the quayside

[Images of a topside structure being floated out from the quayside]
Topsides Heavy Lift

Topsides Heavy lift onto GBS platform
Topsides Heavy Lift

Platform fist oil and gas with drilling jack-up alongside
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Thank You
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