

### Timetable of the Flotta Oil Terminal Development

- 1971 - The Occidental Consortium formed for the Fourth Round of Government Licensing.
- 1973 - Piper Field discovered - 952 million barrels of oil.
- 1974 - Flotta Terminal received outline planning permission for Phase 1 (the Piper phase) of the development.
  - Claymore field discovered - 442 million barrels of oil.
- 1976 - Permission granted for Phase 2 of Flotta Terminal (the Claymore phase).
  - First oil from Piper Field flowed on 7th December.
- 1977 - Flotta Terminal inaugurated on 11th January by Dr. Armand Hammer, Chairman and Chief Executive Officer, Occidental Petroleum Corporation and Tony Benn, Minister of State for Energy.
  - Claymore Field came on stream on 14th November.

- 1981 - First oil from Texaco's Tartan Field entered the pipeline system to Flotta.
- 1985 - First oil from Texaco's Highlander Field produced via the Tartan Platform.
- 1986 - Flotta Terminal celebrated the shipment of its Billionth Barrel of processed crude oil.
  - The Occidental Consortium completed the Scapa Field subsea development - 65 million barrels of oil.
  - First oil from Texaco's Petronella Field produced via the Tartan Platform.
- 1987 - Flotta Terminal celebrated the first Ten Years of operations.
  - The Occidental Consortium reached agreement with Amerada Hess and their partners for crude oil from the Ivanhoe and Rob Roy fields to be piped to Flotta via the Claymore platform. First oil is expected in 1989.

- 1987 - The Institute of Offshore Engineering commenced construction of its new Water Treatment research facility at Flotta Terminal.
  - Flotta Terminal signed an agreement with the North of Scotland Hydro-Electric Board. Flotta will be the first oil terminal to use some of the gas associated with crude oil for generating electricity for the National Grid.
  - The Occidental Consortium announced its intention to develop the Chanter field by linking it to the Piper production platform.

#### The Occidental Consortium comprises:-

Occidental Petroleum (Caledonia) Ltd. - operator	36.50%
Texaco Britain Ltd.	23.50%
International Thomson plc	20.00%
Union Texas Petroleum Ltd.	20.00%



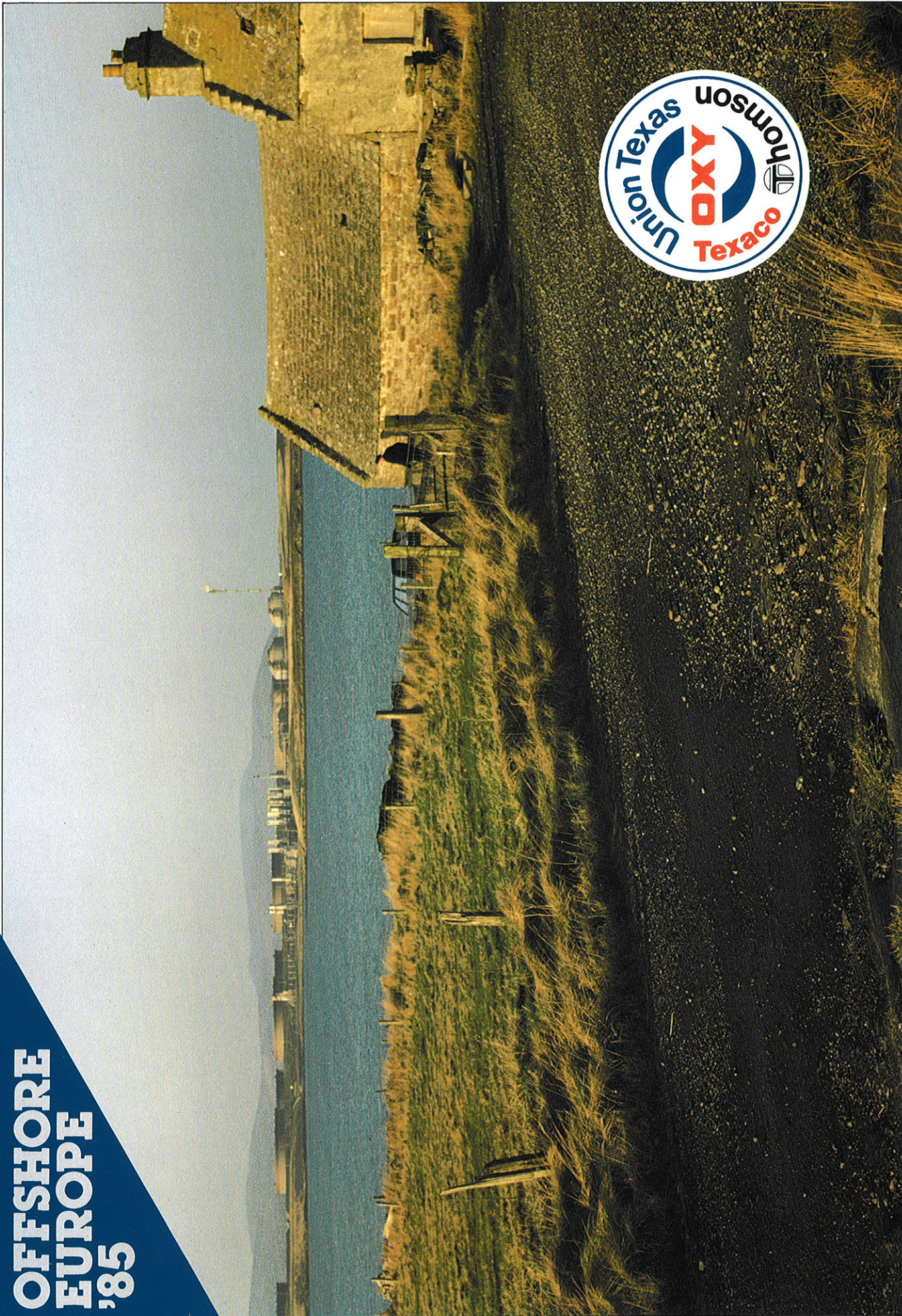
## Flotta Oil Handling Terminal, Orkney

**Civic Trust Premier Award Winner 1982**



# Flotta Oil Handling Terminal, Orkney

**OFFSHORE  
EUROPE  
'85**



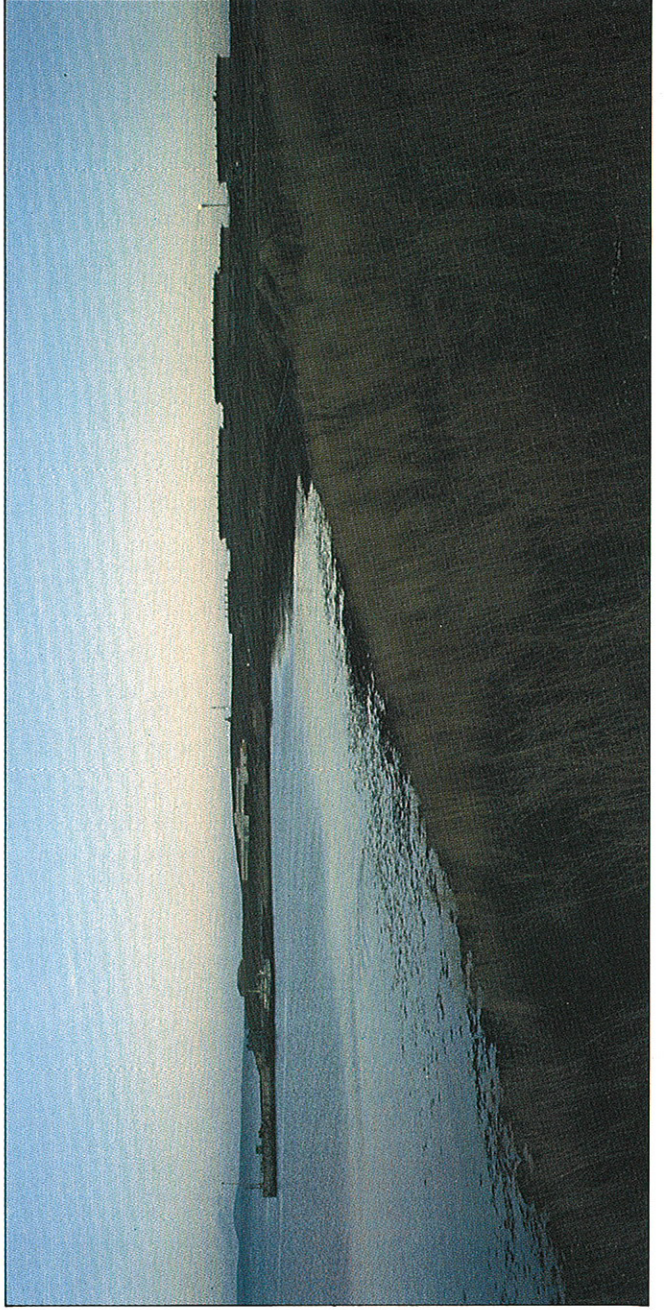
# The Terminal

“Flotta is as near a thing of beauty as an oil terminal can be, and it has won international acclaim as a model of what can be achieved by a good relationship between a local authority and a developer”

Extract from 'The Community Impact of North Sea Oil', a paper by GRAEME LAPSLEY, CHIEF EXECUTIVE, ORKNEY ISLANDS COUNCIL

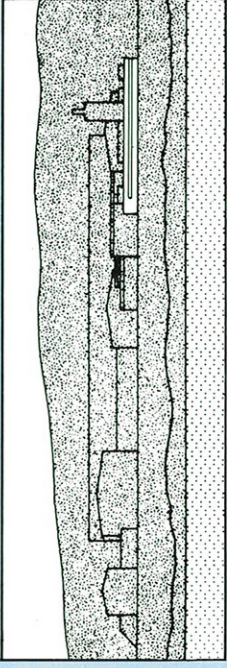
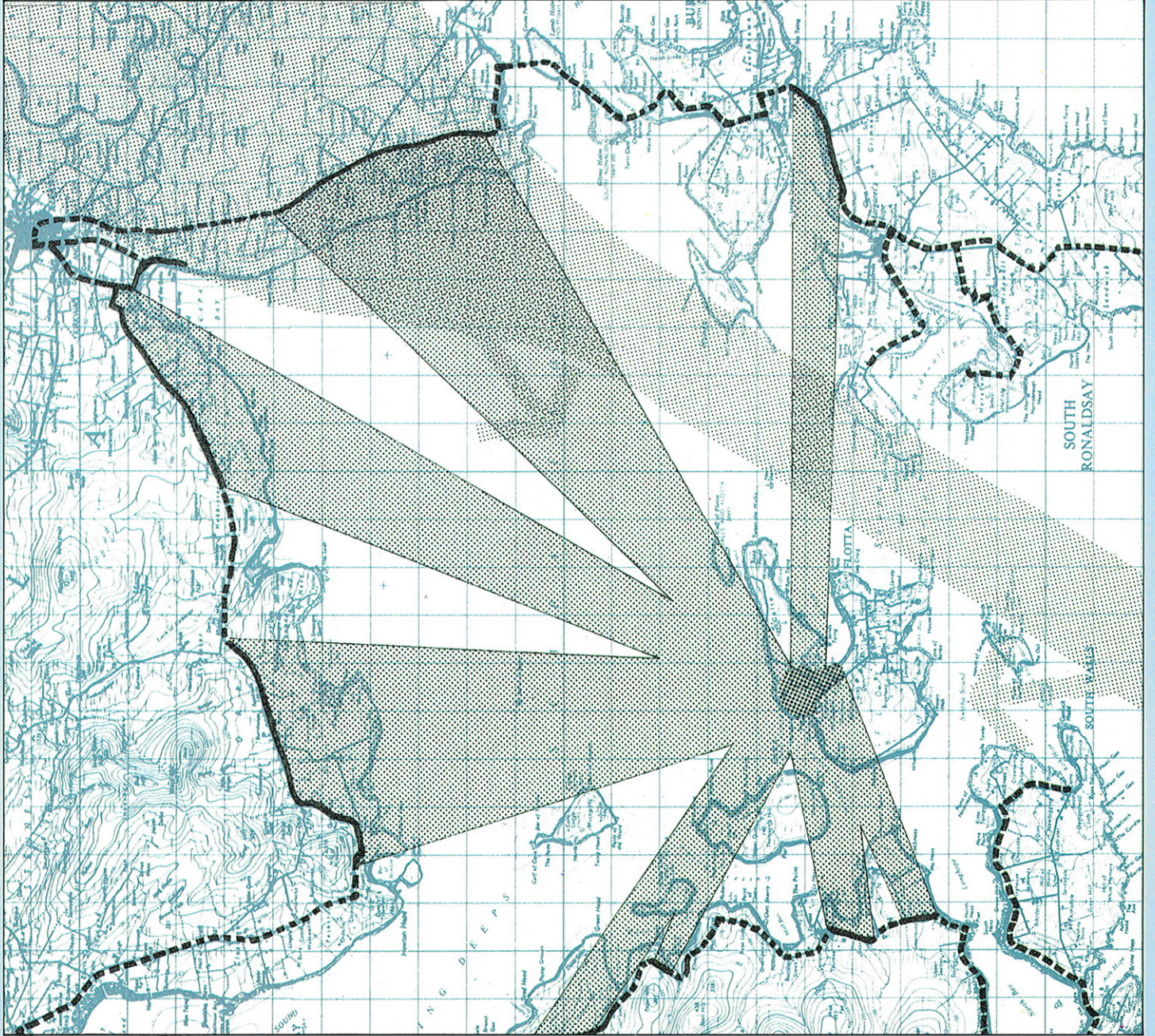


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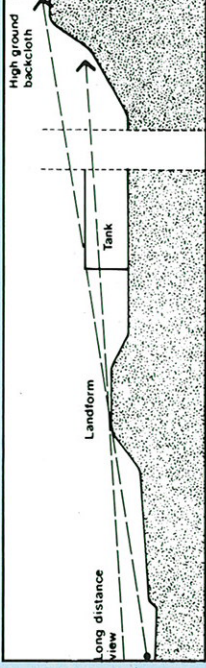
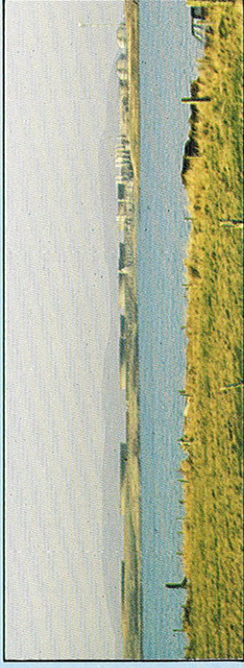


1. View of terminal site prior to development
2. Flotta Terminal, October, 1984

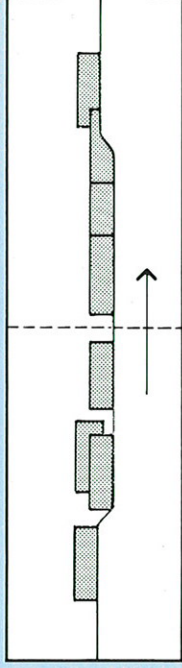
# The Concept



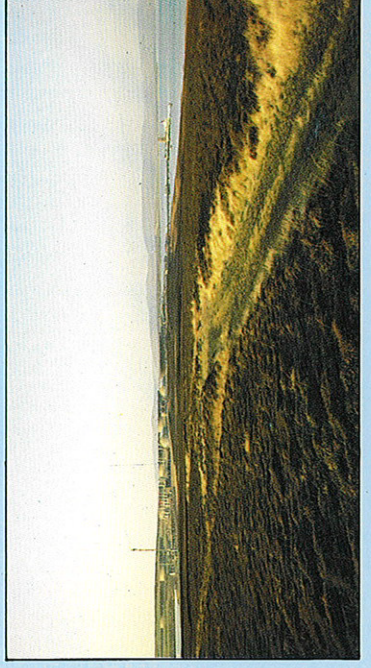
Isolation Concept to distract attention from large elements



Use of background and landform to reduce profile



Overlapping of tanks to reduce edge profile



# The Facts

## Development:-

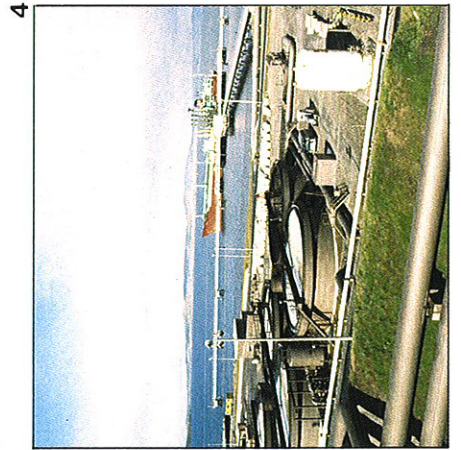
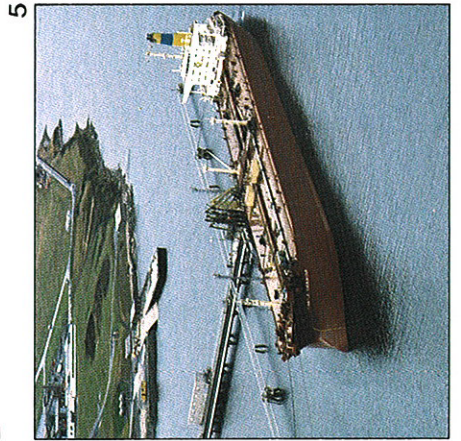
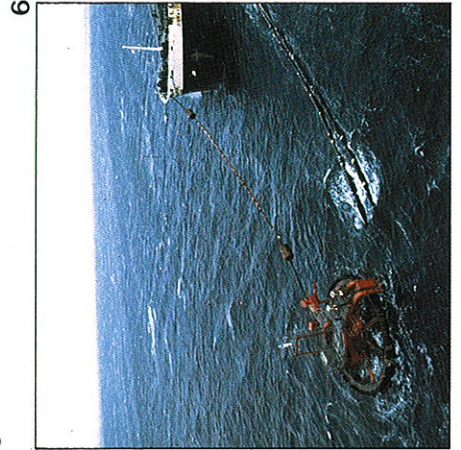
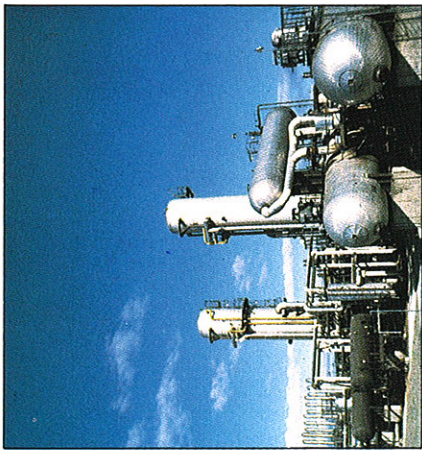
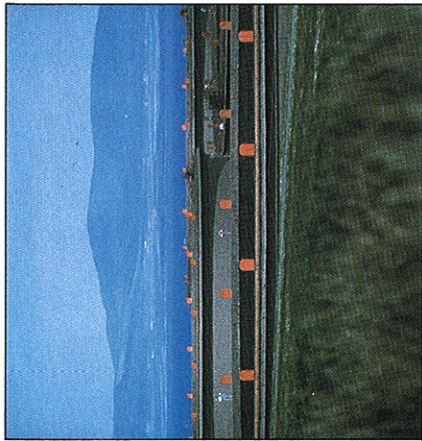
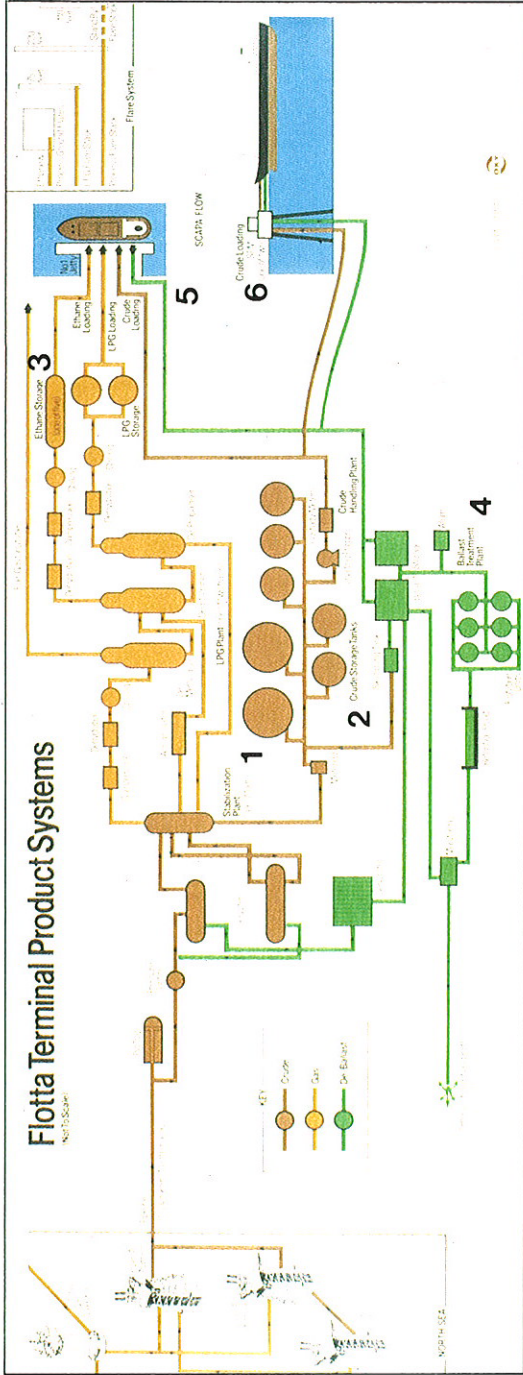
Outline Planning Permission for phase 1 of the terminal was granted in January 1974  
 December 1976 – Piper field on stream and first oil flows into the pipeline to Flotta  
 Total cost (as at 31.12.84) of the Flotta development and associated pipelines = \$650 million  
 Area of site = 365 acres  
 Number of employees = 275

## Operations:-

Average crude received from Piper, Claymore and Tartan = 310,000 barrels per day.  
 Total volume processed (as at 31.12.84) 883 million barrels.  
 Total number of tankers loaded = 1554.

## Record of Spillage:-

(Dec 1976 – Dec 1984)  
 Total number of incidents = 22.  
 Total volume spilt = 168 barrels.  
 Percentage of oil spilt against total volume processed = 0.00002%.  
 Treated ballast water discharged in Pentland Firth – 1984 average 12.13 parts per million against a permitted 25 parts per million.



# The Environment

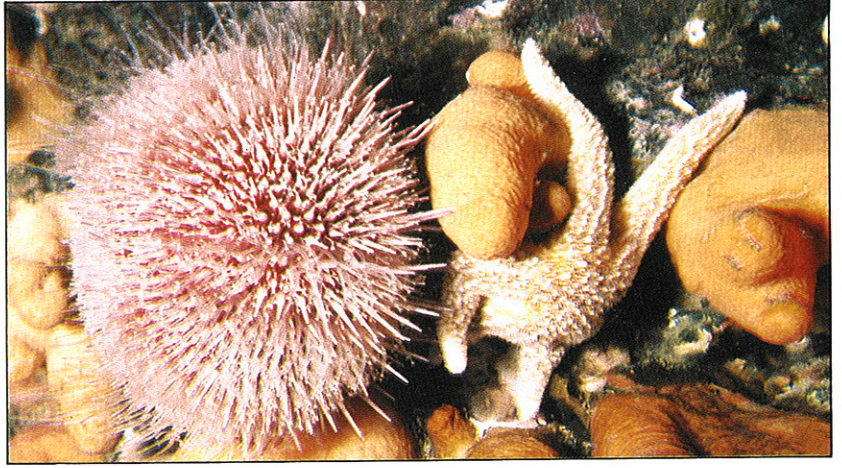
## Marine:-

Clearly, the general sub-sea survey indicates no recordable damage to the rich and colourful marine life of this site

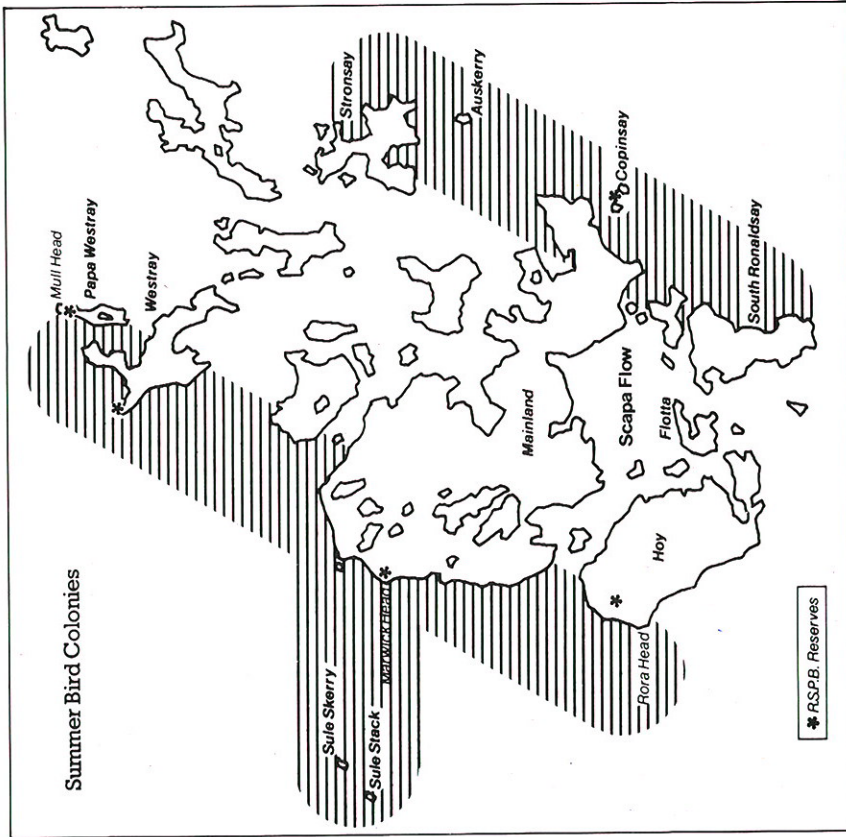
Summary from the most recent marine report carried out by HERIOT-WATT UNIVERSITY. This annual report is submitted to the SCOTTISH DEVELOPMENT DEPARTMENT by HERIOT-WATT.

Dr. ALAN JONES and his team from DUNDEE UNIVERSITY carried out an environmental assessment of Scapa Flow, on behalf of the Orkney Islands Council. The study shows that Scapa Flow is as healthy now as it was before the terminal came on stream.

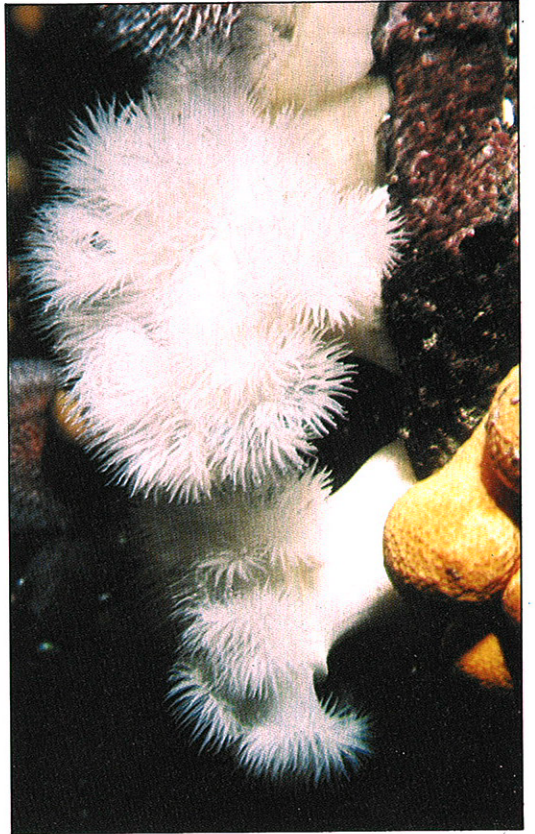
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1. Sea anemone attached to cliff face
2. Sea urchin and starfish among soft coral



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# The Record

**“**Occidental and Orkney Islands Council obviously deserve credit and congratulations for the improving picture in this area which has such importance in Winter **”**

Extract from survey of bird life carried out by ERIC MEEK, ORKNEY OFFICER for the ROYAL SOCIETY FOR THE PROTECTION OF BIRDS.

## Environmental Awards

Business Industry Panel for the Environment (GOLD AWARD)

Civic Trust Award (Silver Jubilee – PREMIER AWARD)

Association for the Protection of Rural Scotland (PREMIER AWARD)

## Safety Awards

Since the terminal came on stream there have been 2,888,338 man/hours without a lost time accident

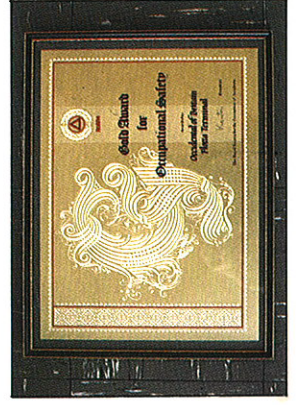
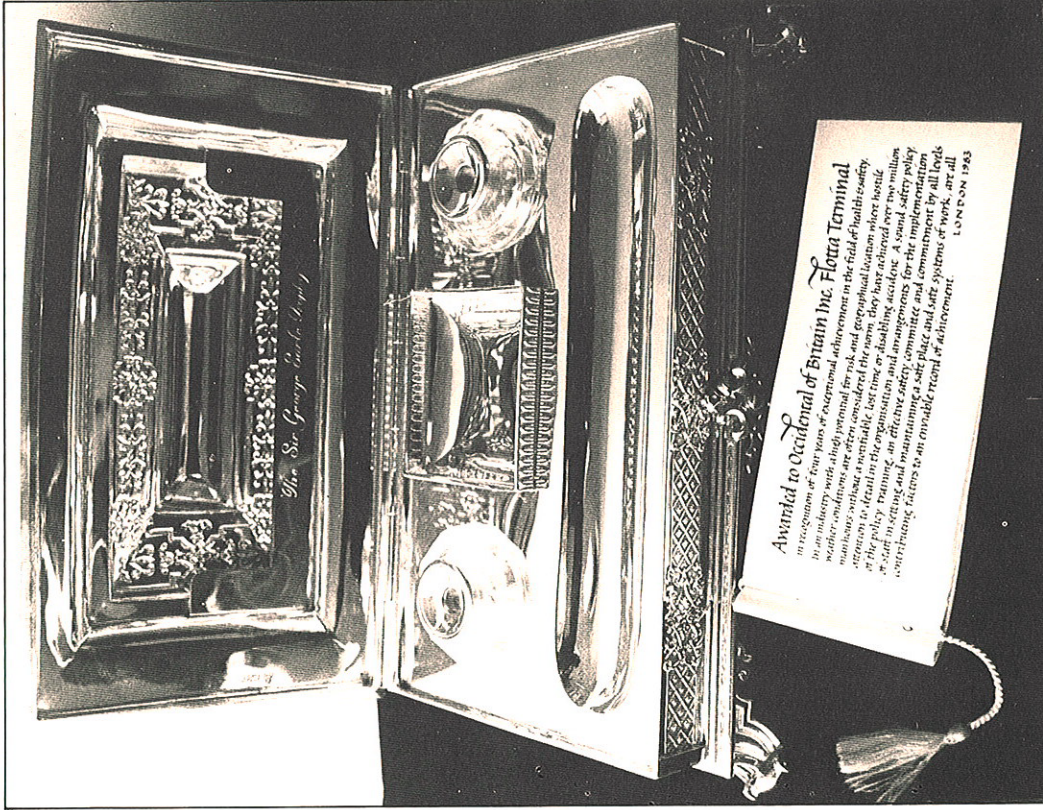
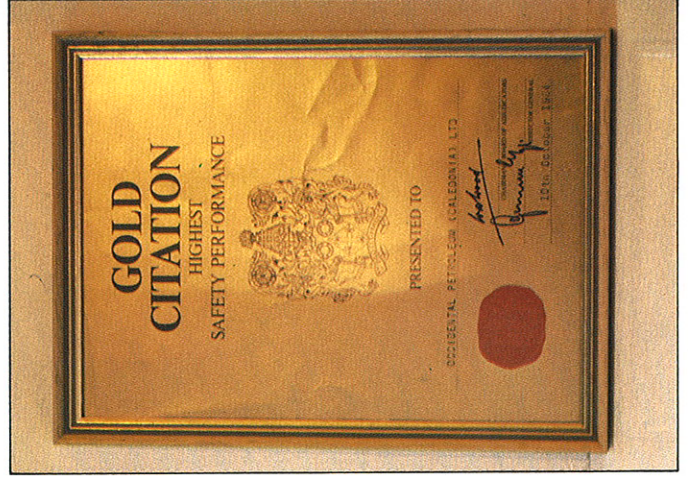
1980 GOLD AWARD from Royal Society for the Prevention of Accidents (RoSPA)

1981 GOLD AWARD from RoSPA

1982 GOLD AWARD from RoSPA

1983 SIR GEORGE EARLE TROPHY – RoSPA top award for "Outstanding Performance in Health and Safety"

1984 GOLD CITATION for the Highest Safety Performance Award by the British Safety Council



# Flotta Terminal



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