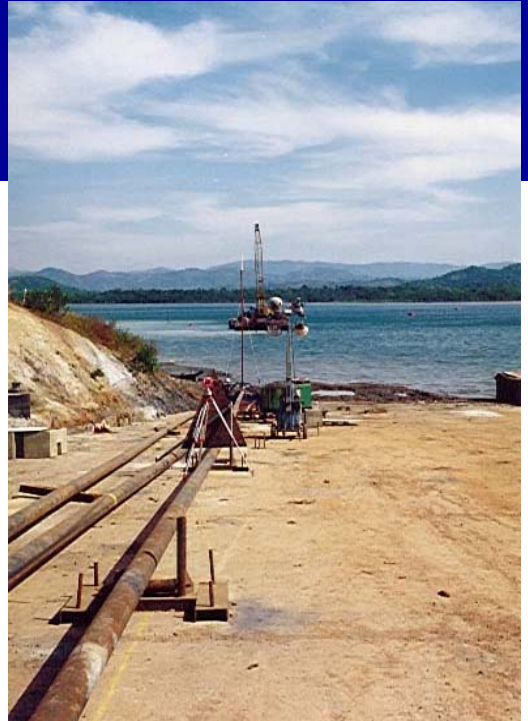


GEOCEAN

REFERENCES



NAPHTA IMPORT TERMINAL 8,6 KM PIPELINE & 6 POINT CBM INSTALLATION

TOTAL NAPHTA PROJECT

Union of Myanmar

Client TOTAL MYANMAR EXPLORATION AND PRODUCTION
Main Contractor GEOCEAN
Subcontractors TOPNAV (survey)
GEOMINE (explosive work)

- **very tight schedule (4 months to complete engineering, procurement and installation)**
- **strong current on the CBM location**

THE PROJECT

Within the scope of the YADANA Development Project the NAPHTA project consisted of the installation of a permanent storage tanker facility in the HEINZE CHAUNG river together with a pipe line system to the Pipe Line Centre (PLC). The whole project included :

1. CBM offload system in the river (anchors, chains, PLEM, flexible hose supplied by GEOCEAN SOLMARINE)
 2. offshore 6 inch pipe line (provided by TOTAL MYANMAR)
 3. onshore 4 inch pipe line to PLC (provided by TOTAL MYANMAR)
 4. marker buoys for the tanker mooring area and for the channel positioning
 5. explosive work on the road to Dawei
-

NAPHTA IMPORT TERMINAL TOTAL MYANMAR PIPE LAYING & CBM INSTALLATION



- **CBM**

- Made of 5 mooring buoys, 6 mooring lines (220 to 250 m long) each connected with 2 anchors installed in piggy back (1 STEVIN 9 to 12 tons + 1 DANFORTH 10 to 15 tons) - Total 12 anchors tensioned by twin to 70 tons
- Water depth at CBM location : 6.5 m + 7 m tide

- **PLEM**

- 2.4 m x 3 m x 0.8 m steel structure composed of 3 tanks filled with grout - ball valve and check valve installed on the structure - total immersed weight : 4 tons

- **OFFSHORE PIPE**

- 152.4 mm (6 inch) - 10.97 mm thickness - no coating
- laid by pulling from the offshore barge
- hydrottested to 40 bars
- total length : 569 m

- **ONSHORE PIPE**

- 10.16 mm (4 inch) - 6.02 mm thickness - no coating - corrosion protection
- hydrottested to 40 bars
- total length : 8040 m

- **TIME SCHEDULE**

Award	November 1998
Start onshore	4 th november 1998
Start offshore	11 th november 1998
Complete onshore	31 th december 1998
Complete offshore	31 th january 1999

