

Client

Coastal Petroleum Dominica SA



Location

Dominican Republic



Period

June 2008 – October 2008

SANTA DOMINGO, CBM Mooring Facility, - Re-instatement Project.

Coastal Petroleum operates the Santo Domingo CBM Facility in Dominican Republic. The facility was originally constructed in 1998, able to accommodate a maximum vessel size of 30 000 DWT. The facility imports LPG through an 8 inch pipeline and Jet Fuel and Diesel through a 12inch pipeline. The system suffered from a severe lack of maintenance and one of the anchor legs was lost in a storm. PMI has been appointed to re-instate the system to its original design condition.

Scope of Works - Design Works

PMI provided all necessary design services to complete the works. More specifically the following services were carried out:

- Analysis of the design of the installed CBM system.
- Design services to determine optimal solution for re-instatement works.
- Detailed design of the preferred remedial upgrading solution.
- Specifications for replacement
- parts required for re-instatement works
- Re-instatement engineering
- Update of the existing O&M manual including:
 - Review environmental conditions

- Include approach vessel motions
- Mooring analysis
- Operational limits auxiliary craft & standby tug
- As built documentation re-instatement works

Supervision works

PMI also provided the construction management Services for the re-instatement of the CBM facility. More specifically the following services were provided:

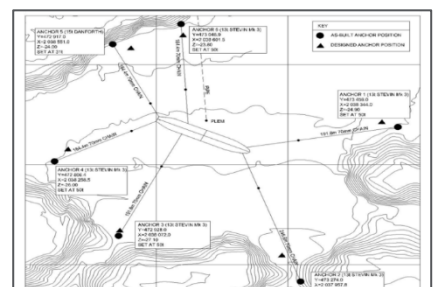
- Project integration management to ensure that project elements were effectively coordinated.
- Project scope management to ensure all the work required is included.
- Project time management to provide an effective project schedule.
- Project cost management to identify needed resources and maintain budget control.
- Project quality management to ensure functional requirements are met.
- Project human resource management to effectively employ project personnel.
- Project risk management to analyse and mitigate potential risks.

Construction Activities

PMI carried out the installation works for the re-instatement of the missing anchor leg, including the anchor setting and pull testing, and replacement of the buoy for the newly installed anchor leg.

Additionally, PMI performed the works required to replace worn anchor chains and components on the remaining anchor legs.

PMI also carried out the refurbishment of the 6 existing buoys to the required specification.



Conclusion

The refurbishment was carried out whilst the CBM facility remained in service to reduce the impact on operations. As such, careful planning was required to ensure the impact of construction works on the operability of the system was minimised.

After the refurbishment, a revised O&M manual was produced that allowed the mooring of larger vessels under controlled conditions. The O&M manual also defined the maintenance criteria more robustly to prevent the system from falling into disrepair.