

AL KHALIJ CABLE SHORE APPROACH PROJECT

Operator : Elf Petroleum Qatar

Client : HAMSTO Submarine Cable
Installation Contractors

Location : Halul Island, Gulf of Arabia

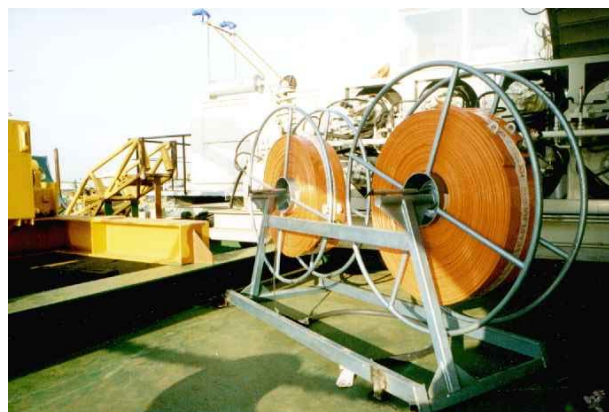
Water Depth : 0-60 msw

As part of the Al Khalij oilfield offshore Qatar, Elf Petroleum Qatar (EPQ) required the installation of a submarine power cable between Halul Island and the DP1 platform, as well as DP1 platform to the wellhead platform.

Through EPQ's main contractor, NPCC, HAMSTO was awarded the contract for the loading, transport and installation of the submarine cables. All cable operations were undertaken from the DP cable lay vessel 'HAM602'. The cables were manufactured by ABB Norsk Kabel AS, Tongsberg, Norway.

SEAFLEX INVOLVEMENT

Seaflex Ltd. supplied the patented cable flotation system, SeaSerpent, for the vessel to beach cable pull-in operation. The SeaSerpent flexible buoyancy, complete with deployment/recovery system,



was delivered to the vessel ready for immediate use. The complete system was seafastened in position before the vessel loaded the cable in Norway.

Once on location the SeaSerpent was successfully used to float the cable from the HAM602 in to the shallow water with the assistance of the lay vessel's MOB boat. Once at the landfall site the pulling wire was attached to the cable and pull-in operations commenced.

On completion of the pull-in, positioning and controlled lay-down was executed using SeaSerpent. The cable was positioned above the trench, running parallel to the pipeline, and by venting of the buoyancy from the shore end a controlled S-lay was performed.



SEAFLEX EQUIPMENT

Type 2650/6/15 SeaSerpent

Length : 500m (2 section of 250m)
Linear Buoyancy : 11kg per metre
(cable @ 6.5kg/m)
Total Buoyancy : 5,500kg

DRS System

Seaflex Ltd. designed and fabricated the DRS (Deployment, Recovery and Storage) System in-house to the project requirements of the client. Steel drums with manual brake solution was provided to take a minimum deck footprint.

PHOTOGRAPHS :

Top: SeaSerpent in action

Middle: SeaSerpent DRS system positioned on deck at aft overboarding station

Right: Halul Island, Qatar, Gulf of Arabia

