

CLOCK SPRING®

Case Study Petronas Riser Repairs in Malaysia

Malaysia's Oil and Gas giant, "Petronas", needed to rehabilitate two offshore platforms in Sarawak, East Malaysia. The BNG-A and BNG-B platforms pump a mixture of crude oil and gas operating at pressures of up to 1000psi, which is then transported to a separation plant before being refined and processed for domestic use and export.



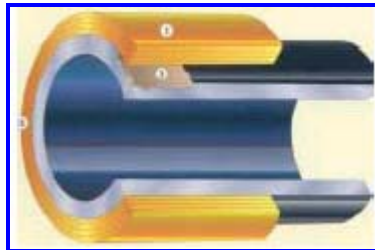
Originally, Petronas had planned a 12 day shutdown to complete rehabilitation of both platforms, which included replacing sections of 40 severely corroded risers that are in use 24 hours a day, 7 days a week. After consultation and engineering analysis with Clock Spring Asia Pacific, and Clock Spring's Malaysian distributor "CE Resources", Petronas was convinced that the proven long term engineering results (minimum 50 year permanent repair), together with the economic benefits and safety and environmental features of the DOT approved Clock Spring® system, made Clock Spring® the obvious choice.



"CE Resources" completed 156 'live' Clock Spring® and Snap Wrap® installations, with 2 installers, and 2 assistants provided by Petronas, to permanently repair damaged pipe sections on both platforms ranging from 2" to 16" in 14 days.

At the completion of the rehabilitation, the total shutdown period was reduced from 12 days to 4, with all 156 riser repairs carried out in accordance with Petronas safety regulations under full operating conditions without any loss in production during the repair period.

Petronas estimates that US\$1 million is lost in production for each day that a platform is not operating. By using The Clock Spring® Composite Sleeve Reinforcement System, they were able to eliminate 8 days of shutdown.



Simply the smartest pipeline repair decision you can make!

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