



Vallourec provides sour-
service line pipes for Diyab
unconventional gas project

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Overview

In the frame of the unconventional gas field Diyab development, TotalEnergies chose Vallourec for the project's Phase 1 covering an extensive scope of NPS 8 x 40 km FBE coated line pipes, hot induction bends and welding services.

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Challenge

This project brought 2 ambitious technical and organizational challenges. First, the Diyab play presents an extremely severe sour environment and therefore needs adapted solutions. Secondly, in the interest of accelerating the progress to achieve gas self-sufficiency for the UAE, supply deliveries were under a fast-track schedule.

Solution

Vallourec conducted R&D tests on the corrosion resistance of its seamless products in high H₂S partial-pressure environments, ahead of clear market needs following the failure of TMCP seam-welded pipes used in severe sour service. Consequently, Vallourec was able to propose adapted solutions at the very beginning of the process.

Early engagement on the different scopes was also a key factor:

- Involvement of Vallourec's subcontractor and coating expert led to early coating subcontractor selection.

- Agile involvement of Serimax¹ allowed Total's expedited PO placement through Vallourec for Welding Procedure Qualifications and for the fast-track mobilization of Serimax equipment in Abu Dhabi.
- LOI was agreed and received two months before the formal PO, which allowed Vallourec to start the manufacturing of base material.
- Vallourec agreed with TotalEnergies to anticipate a shipment of a first batch of 5km of line pipes.

1 Vallourec subsidiary company specialized in welding solutions.

Benefits/ Results

Vallourec's ability to leverage its expertise and agility to build a highly valuable global offer for a strategic customer across the full project chain has been the key success factor. Vallourec is positioned as the partner of choice for an efficient, safe and performant tubular solution management, enabling an accelerated schedule on part of the scope, with zero claims or deviation requests throughout the entire project execution. The complete technical details and results of the Diyab Phase 1 were presented at ADIPEC 2021 by TotalEnergies and ADNOC (paper SPE-207232-MS).

FIND OUT MORE

To find out more about our pipeline solutions visit [our website](#).