



## Case Study OIL AND GAS

### Project

# Lower Fars Heavy Oil Development Program

The Lower Fars Heavy Oil Development Program - Phase 1 in Kuwait is one of the largest and most ambitious upstream projects in the Middle East with the goal of producing 60 thousand barrels of oil per day (MBOPD). The project is part of the country's 2020 production goal of 4 million barrels of oil per day.

Location  
Kuwait

End User  
Kuwait Oil Company – KOC LLP

Contractor  
Consolidated Contractors Company – CCC

Year  
2017-2019

### What We Delivered



#### DIAMETER

50mm up to  
750mm



#### PRESSURE

Up to 46 bar



#### METERS

132 km



#### JOINTS

Rubber Seal Lock  
Joint, Adhesive and  
Lamination



#### DELIVERING

Makeup Water, Sour  
Service and Potable  
Water

Future Pipe Industries worked with Consolidated Contractors Company (CCC) to deliver 132km of Wavistrong™ DN 750 mm (32") with a design pressure of (up to) 32 Barg to be used for make-up water pipeline application.

Future Pipe Industries specialist teams including Technology, Value Engineering, Production, and Field Services met the challenge of designing and executing this demanding Fiberglass application and specifications. FPI supported the overall project by performing detailed engineering, design, production, installation, hydrotesting, and pre-commissioning. The pipeline system utilized our restrained rubber-seal lock joint, with approximately 85 joints per kilometre. A total of over 10,600 joints were installed with an average of 15 joints per day. This adapted rubber-seal lock joint, specific to the project needs, ensured a faster jointing time while not requiring thrust blocks nor curing, thus ensuring a cost-effective and rapid deployment.

Furthermore, FPI supplied a Wavistrong™ piping system with sizes up to DN 600 mm (24") with a design pressure of (up to) 46 Barg to be used for various in-plant piping services at the Gathering Center.

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The entire project included a steam injection facility, a central processing facility (CPF), a production support complex, a tank farm and a 270,000 barrel-a-day pipeline, which will transport heavy crude oil to the planned new Al Zour refinery in the south of Kuwait.

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Gallery



Need  
More Info?

Please get in touch with us  
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