

Major Offshore Gas Facilities Increment, KSA



About the Project



Project Name

Offshore Gas Facilities increment



Manhours

66,000 + safe manhours



Scope of Service

Flooding, Cleaning, Gauging, Hydrostatic (strength and Tightness test), Complete System Hydrostatic Leak test, Baseline Survey, Desalination, Dewatering, Drying, N2 Purging/ Packing, N2/He Leak test and Reinstatement leak test..



Date

December 2018 – October 2019

Introduction

This project is part of the major gas development program in Kingdom of Saudi Arabia .

The purpose of the facilities under the Project was to supply, gather and transport the gas from

one platform to other. Trans Asia's scope included Flooding, Cleaning, Gauging, Hydrostatic (strength and Tightness test), Complete System Hydrostatic Leak test, Baseline Survey, Desalination, Dewatering, Drying, N2 Purging/ Packing, N2/He Leak test and Reinstatement leak test for various pipelines with different dimensions.



Challenges and Achievements

1. Post complete system hydrostatic leak test the complete pipeline section to be baseline surveyed

using intelligent tools, dewatered, N2 purged and packed. Due to small diameter pipeline, the 8" base line survey tool (ultrasonic inspection tool) had the maximum operating time of 60 hours, maximum pig speed of 2m/s and max operating pressure of 1500 psi. Trans Asia, considering the various factors for ILI tool run, estimated the max pressure required to maintain the tool speed. Based on the calculations, Trans Asia recommended a special pig train to complete all the activities in a single run. This was very effective and highly appreciated by the client.

2. There was difference in the ID of topside of wellhead and ID of subsea pipeline and the baseline survey had to be performed Permanent pig launcher to Permanent pig receiver after tie-in of the subsea pipeline with riser and topside piping. However, Cleaning and Scrap ability check of multi diameter pipeline was completed successfully using special disc pig.

3. Trans Asia prepared nearly 120 test packs for N2 He Leak Testing activities and completed the process services activity in a very limited time by running multiple spreads of equipment and manpower, both on-shore and off-shore. Trans Asia was also recognized by major contractor and client for such excellent service in the limited time period.

