



## **Wellhead and Christmas Tree Completion System Rehabilitation**

**Client: SAUDI ARAMCO**

**Location: Saudi Arabian Desert**

**Date: March 2005**

In March 2005, Saudi Aramco decided to re-explore an older oil well that they had neglected for many years.

Hot-Hed was asked what could be done to help Aramco recover the old, non-functional and/or out-dated well equipment that they had on location and install a newer, more suitable stack on the head of the old oil well. Having been left without care for many years in the Saudi Arabian Desert, the oil well had seriously deteriorated.

Hot-Hed went onto this worksite with minimal equipment - only a crane, portable welding equipment, electrical generation equipment and compression tools - and completed the task without the need to utilize a derrick.

Saudi Aramco was very pleased with the outcome of this Wellhead and Christmas Tree Completion System Rehabilitation and are considering more onsite projects of this type. By completing this project without the use of a derrick, Hot-Hed saved the Client a great deal of time and financial resources.

## WELLHEAD AND CHRISTMAS TREE COMPLETION SYSTEM REHABILITATION PROJECT PREPARATION



ASSEMBLY SAND BLASTED BEFORE DISASSEMBLY AND REMOVAL

## INSPECTING WELLHEAD COMPONENTS



CLOSE-UP OF EXTENSIVE CORROSION

## DISASSEMBLY OF WELLHEAD



SECTIONS B, C AND BONNET REMOVAL AFTER [NUT CUTTING](#)



## EXTENDING CASING AND WELLHEAD INSTALLATION



ADDING 9-5/8" CASING EXTENSION AND 13-5/8" CASING EXTENSION  
THEN INSTALLING 18-5/8" WELLHEAD

## PREPARING FOR CHRISTMAS TREE INSTALLATION



NDT INSPECTED AND READY FOR CHRISTMAS TREE INSTALLATION



## CHRISTMAS TREE INSTALLED



CHRISTMAS TREE INSTALLATION COMPLETED AND READY FOR FINAL TESTING



## PRESSURE TESTING



FINAL HYDRAULIC PRESSURE TEST