

HOT-HED INTERNATIONAL

HOT-HED® S.A. ARGENTINA

Casing Extension and Wellhead Replacement Project For Re-abandonment of Oil Well

HOT-HED® INTERNATIONAL - HEAD OFFICE

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WELL RECONDITIONING PROJECT OVERVIEW

This case study is related to onsite work completed by Hot-Hed S.A. Argentina in Neuquén, Argentina for a major European upstream / downstream energy company.

Hot-Hed Argentina was contracted to recondition an oil well which was abandoned many years before using the method that was widely available and accepted at that time. Abandonment of the oil well was originally completed by pumping cement over the cellar, covering the top of the casing.

Hot-Hed later returned to repair the problematic wells by cementing them in the then-accepted manner of well abandonment - from the inside out. In order to fulfill the standards of then-current oil well abandonment, old cement was removed and new casing was added to the older casing, extending its length sufficiently for the cementing equipment and tools that were used.

Hot-Hed crews also cleaned the existing oil well, extended the casing, installed a wellhead and tightened (nipple-up) the union between the 9 5/8" wellhead and the 9 5/8" to 7" reducer. All of the tasks were completed with a 'cherry picker' style crane and ultra-portable equipment (i.e. Diesel Welding Machines and Air Compressors, etc.) which make these types of projects possible without the use of a derrick.

Hot-Hed S.A. was later called out to nipple-down the sections that were installed and to recuperate the wellhead for future use.

CELLAR DUG ORIGINAL ABANDONMENT CONDITION



AT THIS POINT THE WELL WAS
HANDLED OVER TO HOT-HED

HOT-HED ARGENTINA CREWS
BROKE OUT THE REMAINING
CEMENT WITH A PNEUMATIC
CHISEL, REMOVED THE PIECES
AND CLEANED THE CASING
FOR REWORKING

CAPPING 13 3/8" CASING SEALING TO 9 5/8"



A RING SHAPED PIECE OF FLAT IRON IS USED TO SEAL THE GAP BETWEEN THE TWO OUTER CASINGS

IN THIS PROJECT THEY ARE THE 13 3/8" AND THE 9 5/8"

MEASURING TWICE...



HOT-HED CREWS MARKING THE
9 5/8" CASING FOR THE FINAL
CUT

SEPARATING THE 7" CASING FROM THE 9 5/8" CASING



THE HOT-HED HOT-BEV'LR®
CONDUCTOR PIPE & CASING
CUTTER BEVELLING BAND IN
PLACE WHERE THE CUT WILL BE
MADE

EXTENSION IN PLACE



THE 7" CASING EXTENSION IS
READY TO BE WELDED
TOGETHER

IN THIS PROJECT THEY ARE THE
13 3/8" AND THE 9 5/8"

THE 9 5/8" CASING BEVELED AND
READY FOR EXTENSION

LEVELLING THE 7" CASING



ENSURING THAT THE 7" CASING IS ABSOLUTELY LEVEL IS ESSENTIAL TO THE SUCCESS OF THE EXTENSION PROJECT AS A REDUCER WILL UNITE THE 9 5/8" SECTION AND THE 7" SECTION

WELDING THE 7" CASING



JOINING THE EXISTING 7"
CASING AND THE NEW
EXTENSION PIECE THAT WAS
CUT TO SIZE IN THE FIELD

EXTENDING THE 9 5/8" CASING



THE 9 5/8" CASING IS EXTENDED AND WELDED IN PLACE ACCORDING TO THE DESIRED HEIGHT PLANNED FOR THE WELLHEAD

LOWERING THE WELLHEAD FOR INSTALLATION



THE 9 5/8" WELLHEAD IS
LOWERED ONTO THE 9 5/8"
CASING IN PREPARATION FOR
WELDING

LEVELLING OF THE WELLHEAD



ONCE THE WELLHEAD IS IN PLACE, IT IS ESSENTIAL TO ENSURE THAT IT IS PERFECTLY LEVEL SO THAT THE EXTENSION INSIDE WILL BE ABSOLUTELY CENTRED

WELLHEAD WELDING



THE 9 5/8" WELLHEAD LEVELLED,
THOROUGHLY TACK-WELDED IN
PLACE

THE WELLHEAD IS THEN
WELDED SECURELY TO THE 9
5/8" CASING

INSTALLATION OF PACKER



THE PACKER IS PLACED IN THE ANULUS OF THE 9 5/8" WELLHEAD

INSTALLATION OF REDUCER



WITH THE PACKER AND STEEL RING IN PLACE, THE 9 5/8" TO 7" REDUCING HEAD IS LOWERED INTO PLACE



NIPPLE UP



FINAL STEPS IN THE PROJECT

THE BOLTS ARE INSTALLED AND HOT-HED'S LOCK-WELL™ WELLHEAD SECURITY NUTS ARE TIGHTENED USING OUR HYDRAULIC TORQUING EQUIPMENT

HOT-HED

INTERNATIONAL



INCREASING CLIENTS'
SAFETY, REVENUE &
PRODUCTION FOR NEARLY
50 YEARS

24 OFFICES WORLDWIDE



HOT-HED
INTERNATIONAL



HOT-HED
ARGENTINA



HOT-HED
MEXICO



HOT-HED

INTERNATIONAL

Pressurized Hot Work Habitat™
Press-Test™ Wellhead Pressure Test
Hot-Hed® Preheater/Postheater System
Hot-Bev'Ir® Conductor & Casing Cutter
Hot-Chek® Weld Integrity Testing System
Hot-Jnt® Pipe & Casing Pre-Heater
Lock-Well™ Wellhead Security Nuts
Mud-Saver® Drill Mud Bucket
Hot Bolting Service

Hydraulic Bolt Tightening Service
Hydraulic Bolt Tensioning Service
Cold Cutting Service
Hot Tapping Service
Diesel Piling Hammer Rentals
Fabrication & Welding Service
Wellhead Installation Service
Hydrostatic Testing Service
Hydraulic Nut Splitters

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