

DEEPWATER

DEEPWATER PROVIDES CP TEST STATIONS FOR THE MONTARA PIPELINE: WESTERN AUSTRALIA

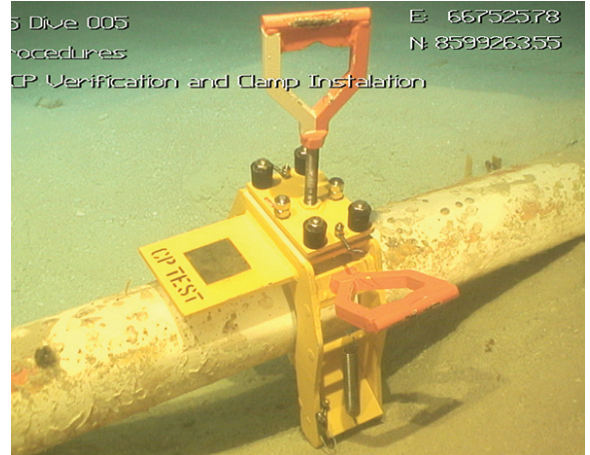
RetroClamps™ were used for test stations and tie-ins.

Montara's operator contacted Deepwater Australasia Pty Ltd about improving electric continuity with tie-ins of existing anode skids to trees and PLET and adding CP test stations for flowlines.

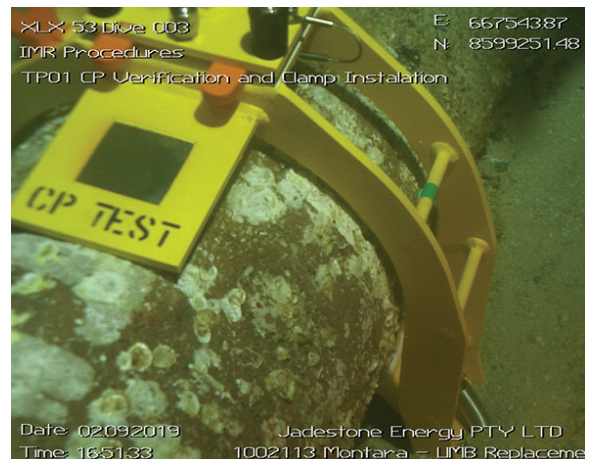
To electrically tie in the anode skids to the PLET and 5 subsea wellhead trees, one clamp set was placed between the skids and target asset, and the second clamp set was attached to two different parts of the tree and PLET to ensure electrical continuity. They are connected with a set of approximately 20m-long tieback cables.

CP test stations were added for direct measurement of the flow lines, as it was always difficult to reliably assess their CP levels. Some of the flow lines have 4" gas lift piggybacks that needed to be bonded to their host flow lines. This was accomplished by installing customized RetroClamp™ CP test stations connected with tieback cables to 4" RetroClamps™ attached to the piggybacks as far from any anode bracelet or anode skids as possible. With the clamps in place the manifolds, tree and PLET are no longer electrically isolated, and the test stations provide an easily accessible way to gather reliable CP readings.

More info at www.stoprust.com



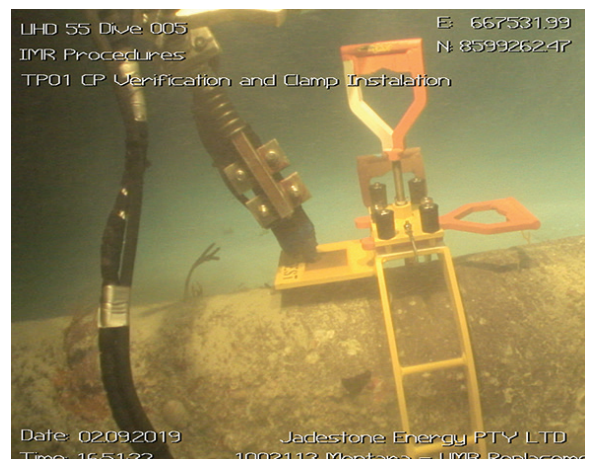
CONNECTION VIA CLAMP
Electrical connection is provided by the RetroClamp's™ contact tip.



EASY CP TESTING
These RetroClamps™ feature CP test areas to be stabbed by an ROV's probe.



FLOW LINE BONDING
A tieback cable from a 4" RetroClamp™ to the test station bonds the gas lift piggyback to the host flow line.



TAKING A READING
RetroClamp™ test stations can be situated anywhere you need CP data.