

# CASE HISTORY

## Preservation of Polished Bore Receptacles



### LOCATION

Abu Dhabi

### PRODUCT

VpCI®-422

VpCI®-414

### PROBLEM

The customer rents Polished Bore Receptacles (PBR) to their drilling customers. The tools are used for 3-6 months in the drilling fields and when returned they are full of corrosion. The PBRs require machining to remove corrosion; thus eventually taking out base metal. There is a very low tolerance towards metal loss, anything above 0.01mm thickness is rejected and scrapped, costing thousand of dollars.

### APPLICATION

The external surface of the PBR was soaked with VpCI®-422 to loosen existing rust on the surface then scrubbed manually to take out remaining rust. The internal diameter was filled with VpCI®-422 at 20% total volume and rotated within the pipe every half hour. A high pressure wash with 5% VpCI®-414 was added to clean the surface. This removed the corrosion from the internal and external surfaces of the PBRs without damaging the base metal.

### CONCLUSION

Since the implementation of Cortec's corrosion control products, Weatherford has been very satisfied. This solution has reduced the rejection rate 100% compared with rust removal by machining process. Cortec® products reduced cleaning time, created a huge cost savings, and provided an environmentally friendly solution.



### DATE

December 2013

### CUSTOMER

Weatherford

### CORTEC® REPRESENTATIVE

Cortec® Middle East

### CORTEC® DISTRIBUTOR

The Kanoo Group

4119 White Bear Parkway, St. Paul MN 55110 USA  
Phone (651) 429-1100, Toll free (800) 4-CORTEC  
Fax (651) 429-1122, Email: info@cortecvci.com  
www.cortecvci.com



**CORTEC**  
MIDDLE EAST

*Environmentally Safe VpCl®/MCl® Technologies*