

Heat-less Welding Solutions Drill Pipe Wear Pads

Bone Springs Trial — Update 3

TECHNOLOGY BASED SOLUTIONS FOR YOUR TUBULAR MAINTENANCE AND REPAIR NEEDS

Arnco welded 159 joints of CET-50 drill pipe with our drill pipe wear pads using our patent-pending Heat-less Welding Solutions (HWS). The operator was experiencing severe tube downgrades due to the use of brine-based mud (WBM) and was looking for a solution to extend the life of the pipe. Arnco worked with both the operator and the rental company to provide a solution. After drilling 3 wells, the pipe has been inspected, and the results are conclusive. Arnco's wear pads had around 50% of their life remaining, there were no cracks, and very few joints of drill pipe were rejected for low body wall. In fact, with a 92% reduction in the rejection rate of pipe due to low body walls, the customer saved around \$200,000 in downgraded pipe charges compared to their previous pad.

Total Depth Drilled	60,756 ft.
Open Hole Horizontal	30,341 ft.
Mud Type	WBM (brine)
On Bottom Torque	47,000 ft./lb.
Wear Pad Wear Rate	0.022 in. / 100 KRevs



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HWS
HEATLESS WELDING SOLUTIONS