

Case Study
**60" Main Water Transmission
Line Reinforced by Clock Spring®**



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1 Defect area

After an intelligent pigging campaign, several locations exhibited external corrosion/pitting across several areas of the weld joints that required immediate attention to ensure the safe operation of the pipeline. As exhibited , a single wrap mould was used to cover the areas with filler to ensure the defects were fully covered and smooth, allowing the Clock Spring to wrap around the pipe. This exercise required approximately 1 hour to complete.



2 Clock Spring® Sleeve Application

The Clock Spring was then wrapped around the pipe, applying adhesive all around the circumference of the pipe .



3 Clock Spring® Sleeve Application

The final repair after the curing of the adhesive



4 Design Criteria

Operating Temperature	: 120° F
Operating Pressure	: 810PSI
Defect Type	: External Corrosion & Pitting
Size	: 60” inch main waterline
Defect Analysis	: Wall thinning and metal loss up to 55%