

Case Study
30" Clamp Repair using Clock Spring®
Contour Composite Wrapping



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1 Defect area

30" SS pipeline has pin hole at weld joint



2 Leak Sealing Clamp

Leak sealing clamp was installed on the pipe to arrest the leak however due to pipe geometry and weld configuration, the leak was not sealed properly and seepage was observed on both sides of the clamp.



3 Clock Spring® Contour Application

Clock Spring® Contour composite was the innovated repair solution to secure the leak and encapsulate the structure.

The application was completed by using fast curing putty & Clock Spring® Contour technology, the wrapping was extended 0.7 m on both side of the clamp to reinforce the defect terminals and to contain the existing leak.



4 Design Criteria

Operating Temperature	: 94 deg C
Operating Pressure	: 9.8 bar
Defect Type	: Pinhole
Size	: 30"
Material	: SS
Defect Analysis	: 5mm through wall defect
Orientation of Leak	: 5 o'clock
Lifetime	: 2Years