

Case Study 16: Erosion on Elbows

Elbows are common pipe fittings which are susceptible to corrosion and erosion. Using the C-Scan, defects at elbows can be detected and prioritised.

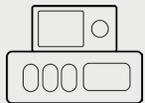
Job Details

- 10" crude oil line
- Non-painted surface
- Insulated pipeline
- Inspection of sleeved buried section

Main Findings

- A severe defect is detected on the sleeved buried elbow within the test range.
- Circumferential alignment of the defect with outer radius of the elbow suggests an erosion type defect.
- Excavation and removal of the sleeve allowed verifications to be performed.
- Results of RT inspection confirmed a severe erosion defect at the location reported by GWT.

Equipment:



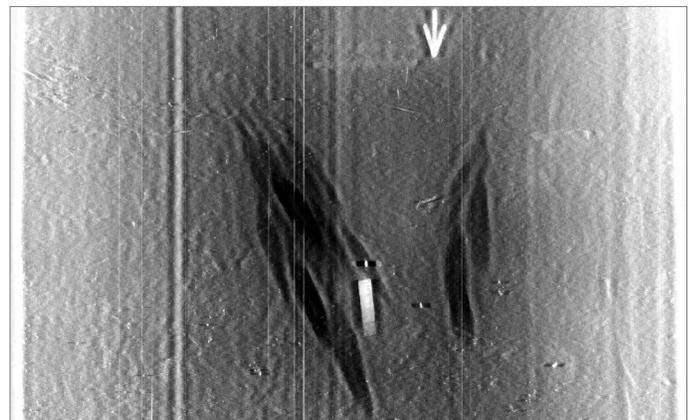
Wavemaker® G4



Inflatable Ring



Overview of the ring installation site, where a short section of the pipeline insulation was removed.



Radiographic image of erosion defect located at the position reported by GWT.

