



<b>Infinity:</b>	Engineering
<b>Client:</b>	Confidential E&P
<b>Project:</b>	Pipeline Integrity
<b>Scope:</b>	Fitness-For-Service Assessment

### Background

Infinity were engaged by the client to carry out a Fitness-For-Service assessment on a series of pipelines as part of a wider asset integrity management scope for the client's North Sea asset. The study was to assess the known corrosion anomalies to ensure safe operation at the current operating regime while considering the possibility to allow the asset to operate under re-rated pressure conditions.

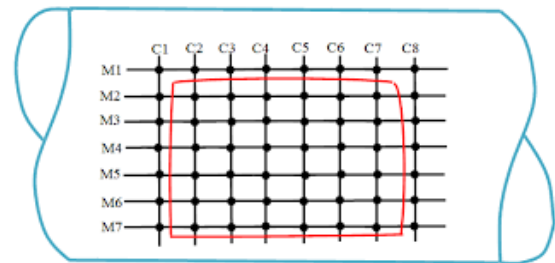


### Challenge

The client had a tight deadline to deliver the Fitness-For-Service assessment to allow for the completion of a wider annual Integrity Management Scheme (IMS). In addition, the customer wanted to investigate the feasibility of re-rating the pressure to aid increased production.

### Solution

Infinity performed an assessment of all known corrosion anomalies. As a worst-case scenario, anomalies of a particular corrosion rate were assessed in more detail during the Fitness-For-Service assessment, in accordance with API RP 597. As part of the assessment a remaining life evaluation was also performed to inform the client of the severity of some of the anomalies.



The assessment of the re-rated pressure scenarios showed that this was not advisable. Instead, Infinity provided remediation and in-service monitoring solutions in order to optimise planned/proactive repair and maintenance of the known anomalies.

### Results

Recommendations were made to optimise planned and proactive repair and maintenance based on the calculated remaining life of the known anomalies. This ensured the client had sufficient time to find a solution to repair or replace the heavily corroded sections of pipeline.