

CASE STUDY

INTERNAL & EXTERNAL CORROSION DIRECT ASSESSMENT (ICDA & ECDA) FOR CONDENSATE AND OIL PIPELINES

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OVERVIEW

The condensate and oil pipelines have been operated more than 9 years, and no internal inspection has been conducted on these pipelines. As part of Client's commitment to be reliable energy supply, ICDA and ECDA was performed to assess the internal and external condition of the pipeline to confirm the health status of the pipeline integrity. ICDA and ECDA are alternative methods when conventional pipeline inspection using in-line inspection is not feasible.

SERVICES

These pipelines were selected for Direct Assessment (DA) to assess its integrity using the NACE Internal Corrosion Direct Assessment Methodology for Liquid Petroleum Pipeline (NACE SP0208) and NACE Pipeline External Corrosion Direct Assessment Methodology (NACE SP0502) methodology. Sonomatic covers three scopes for direct assessment, including pre-assessment, indirect inspection and direct examination.

OUTCOME

Based on pre-assessment and indirect inspection results, the most probable location that internal corrosion might occur was identified. The direct examination was conducted based on indirect inspection results.

Sonomatic performed the direct examination using UT MAG-ST as screening method and ROV-iT scanner for measuring internal and external corrosion.