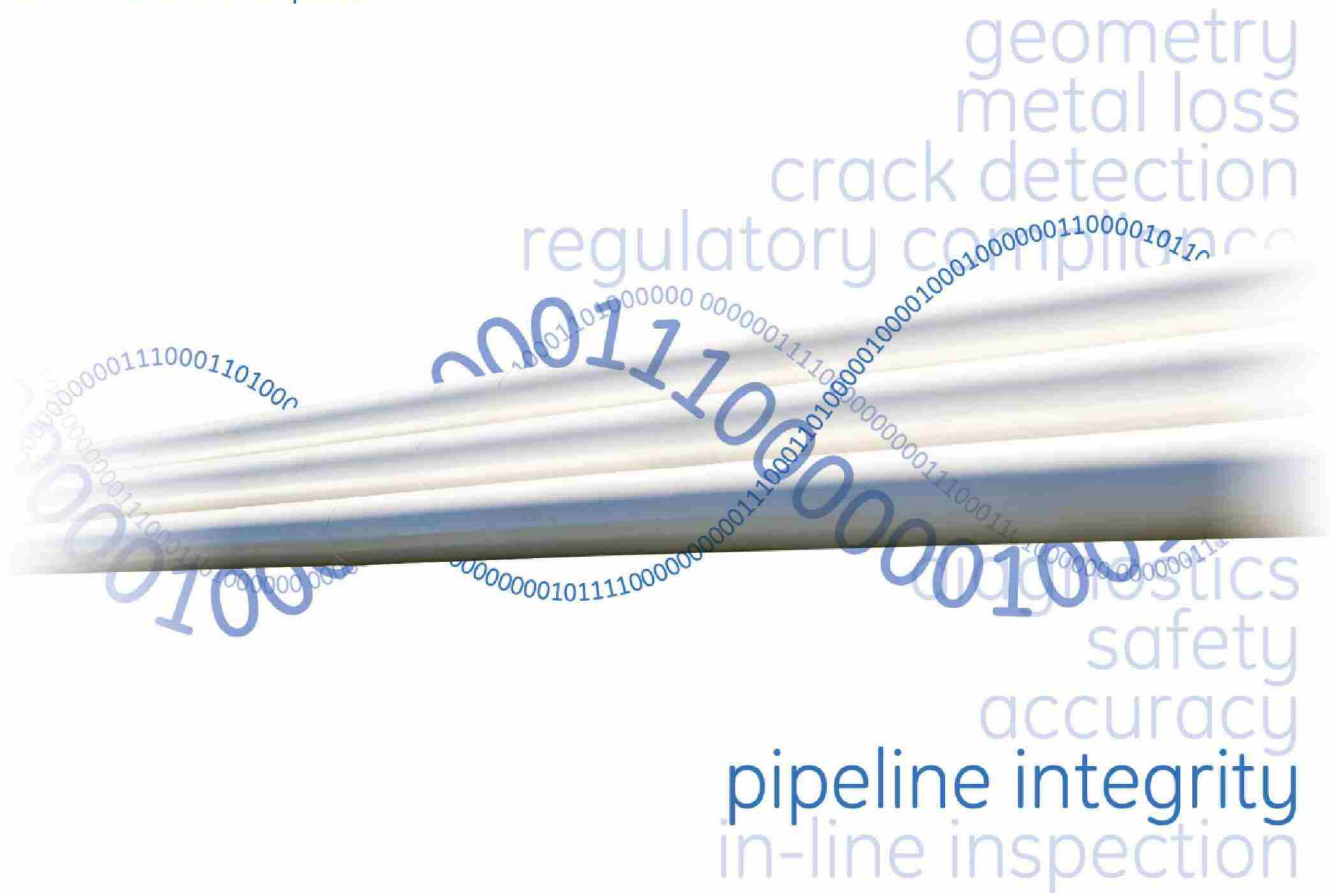


New MagneScan™ HR

Inspection Report for
20 inch Crude Oil Pipeline



Enbridge Energy, Limited Partnership

Line 05: 20" West North Straits to
West Mackinaw (WNO-WMA)
Run Date: 01 July 2020

Work Order Number: W132014251
Contract Number: 31715
Project Number: 451591_B20
Expedited Report (GW3560 – GW3600)
07 July 2020



Summary

A full survey of the Enbridge Energy, Limited Partnership Line 05: 20" West North Straits to West Mackinaw (WNO-WMA) pipeline was successfully completed by Baker Hughes, on the 1st of July 2020. The tool was pulled from the pipeline on the 1st of July 2020. The pipeline survey was performed using Baker Hughes' combined Magnetic Flux Leakage (MFL), Geometry (Caliper), and Mapping (IMU) inspection vehicle.

The inspection has confirmed that the pipeline is 6.656km long, predominantly manufactured from Seamless pipe, with a predominant wall thickness of 20.62mm.

Note: At the request of Enbridge, this report includes the expedited analysis result of spools from GW 3560 – GW 3600.

The following table summarizes the metal loss features and dents identified during the analysis of spools from GW 3560 – GW 3600.

Feature Type	Quantity
External Metal Loss	0
Internal Metal Loss	0
Dents	0

Noted during the analysis of GW3560 – GW3600, 10 external “manufacturing related signal responses” were identified. A manufacturing related signal response is a feature considered as a low-level detectable artefact that arises during or from the original manufacturing processes of the pipe within the detection thresholds of the inspection system. These feature types are considered to have been present in the pipeline since it was delivered/commissioned and do not change over time (inspection to inspection).

Below are the names, roles and certification levels of the analysis team that participated in this project:

Analyst	Role	Certification Level
Yuyu Tan	QA Checker / Report Checker	2
Julian Vilchez	Data Analyst / Report Author	2
John Ma	QA Checker	2

We should hereby like to express our appreciation for the assistance and co-operation that we received from Enbridge Energy, Limited Partnership in the course of this project.

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