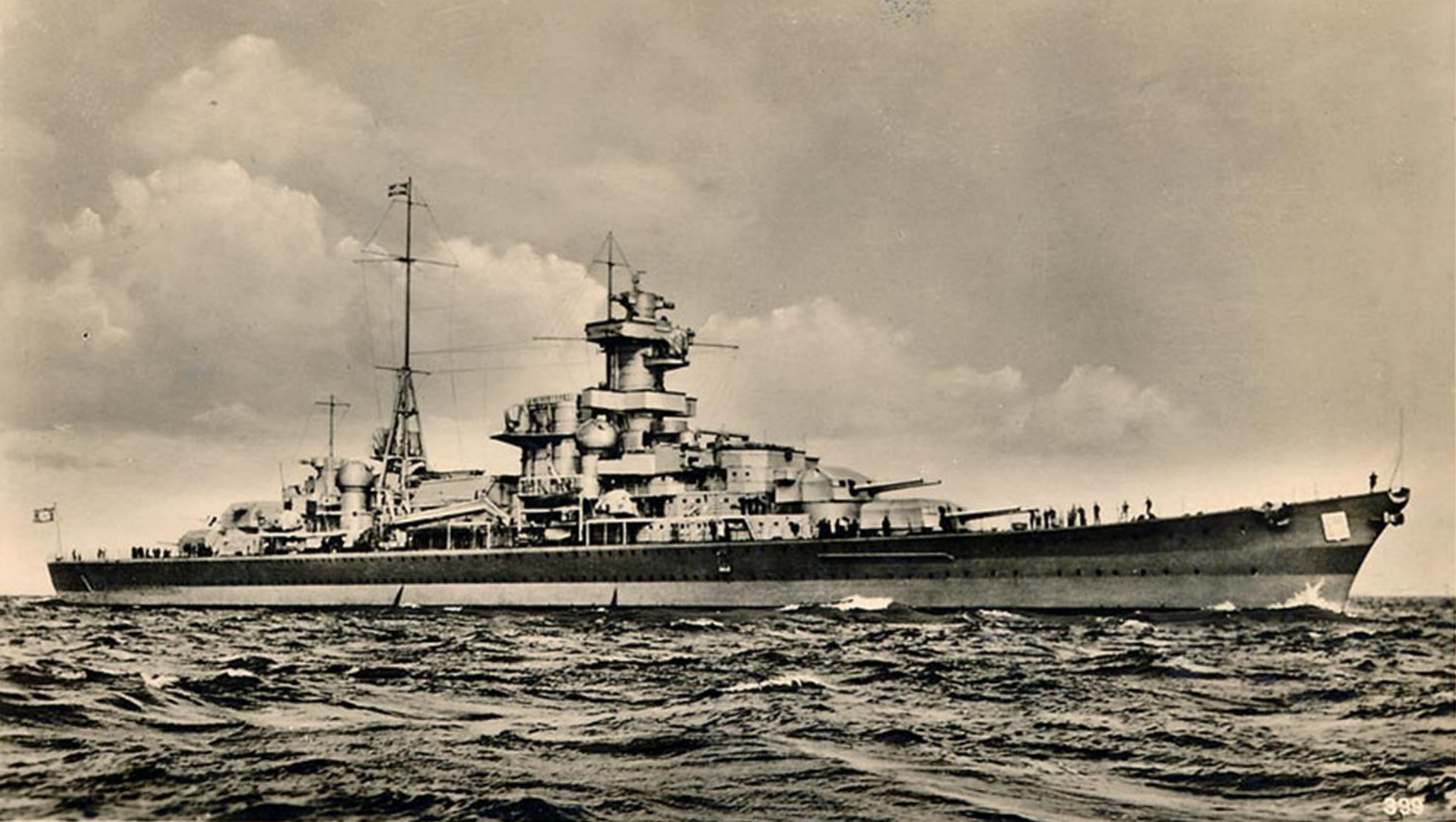
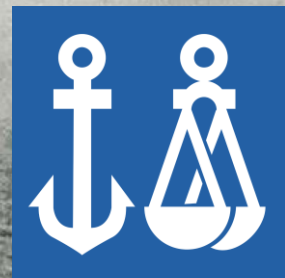
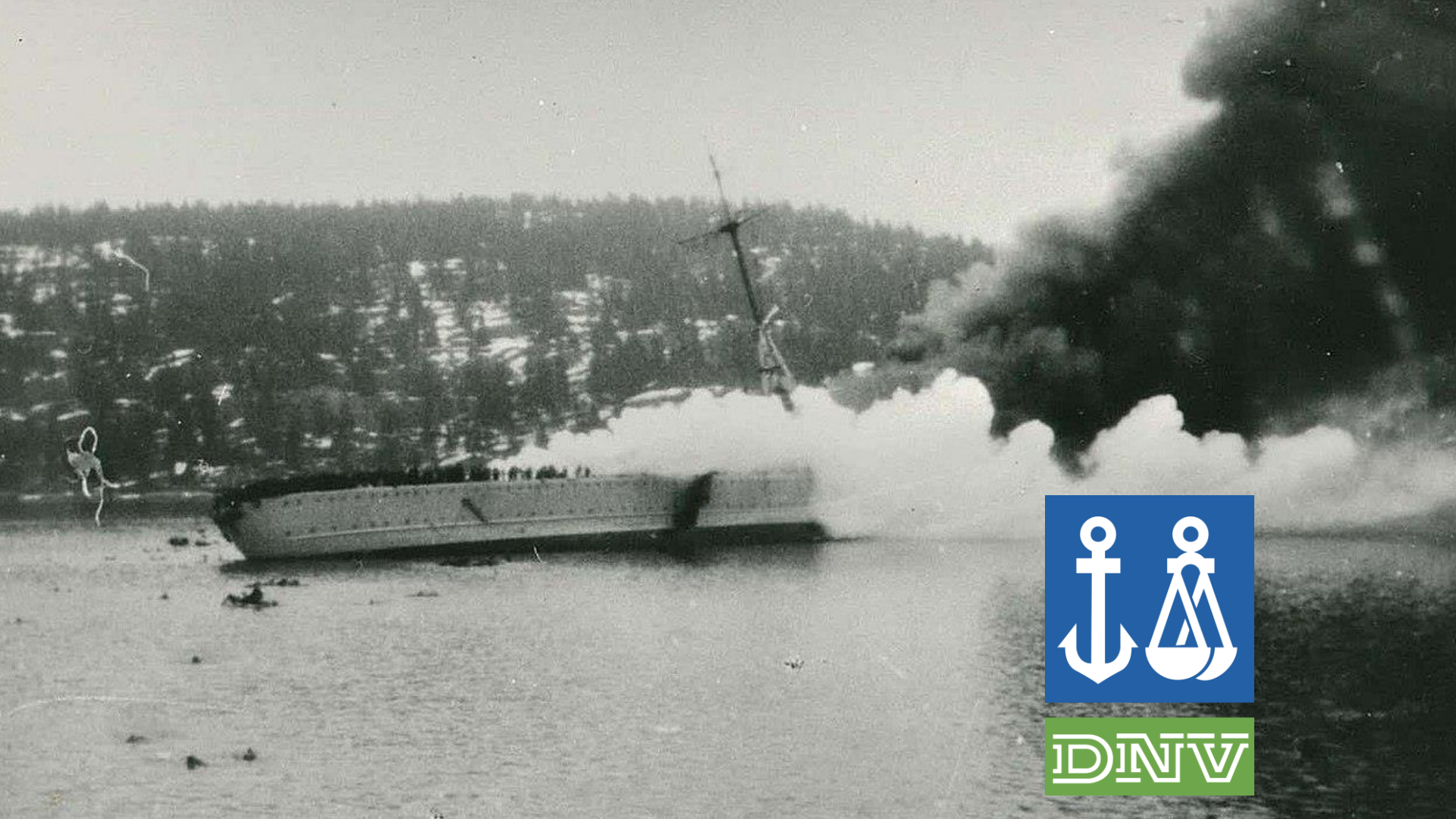


Acoustic Resonance Technology

Sigurður Bergmann Gunnarsson
Veitur Utilities, October 2019





IDINTV

Breivoll founded in 1998



ABOUT US

DIAGNOSTICS

PROJECTS

CLIENT OPINIONS

USEFUL INFORMATION

NEWS

CONTACTS

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DIAGNOSTICS

BIT has developed a method of inspection for water pipes based on the use of advanced acoustic resonance technology. This method makes it possible to estimate the thickness and indicate the internal and external corrosion on water pipes. For our work in developing this inspection technique, we were awarded "Engineering Achievement of the Year 2007" by Teknisk Ukeblad and TEKNA.

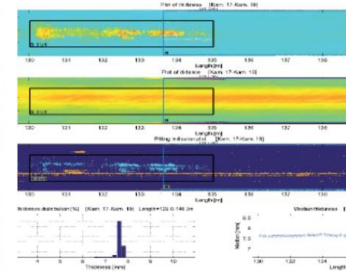
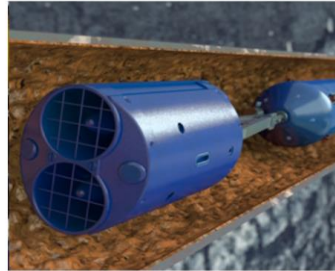
ART TECHNOLOGY

/

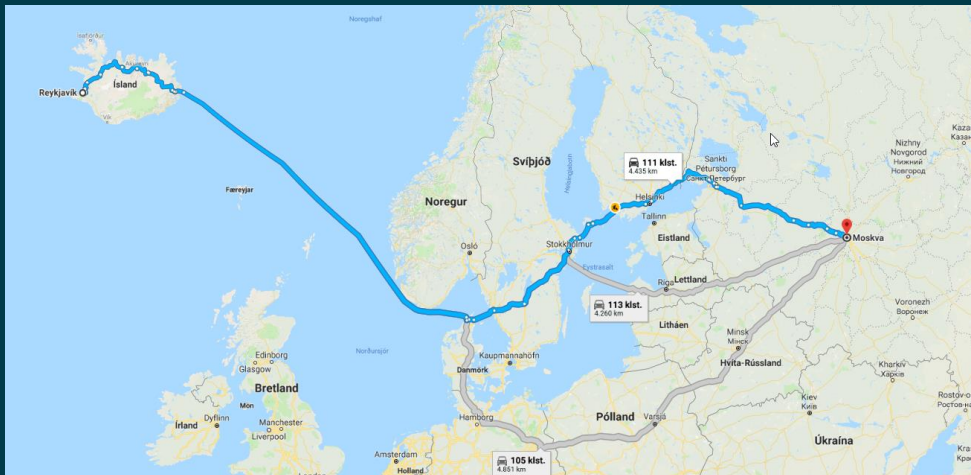
PIPELINE INSPECTION

/

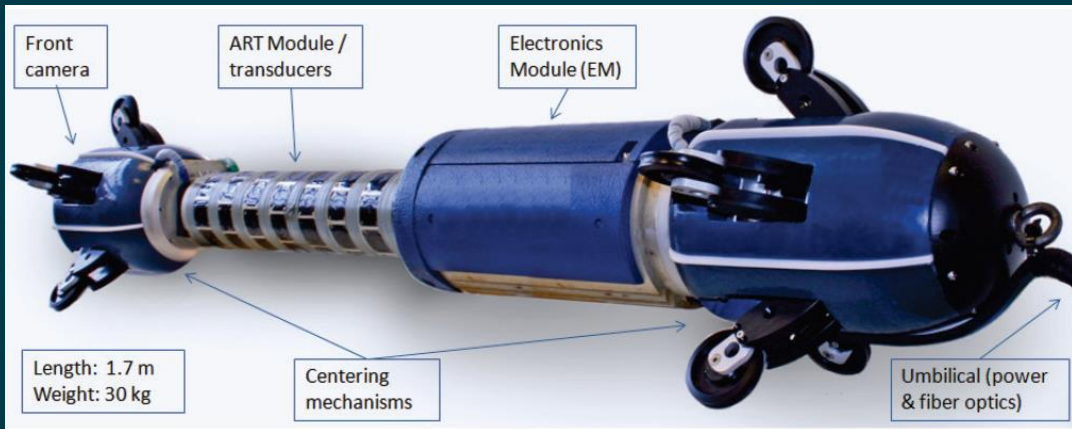
RESULT



The Project



„Pipe Scanner“



The holy grail



General layout



How we do the scanning



Pipe scanner deployed



The scanning





The tether

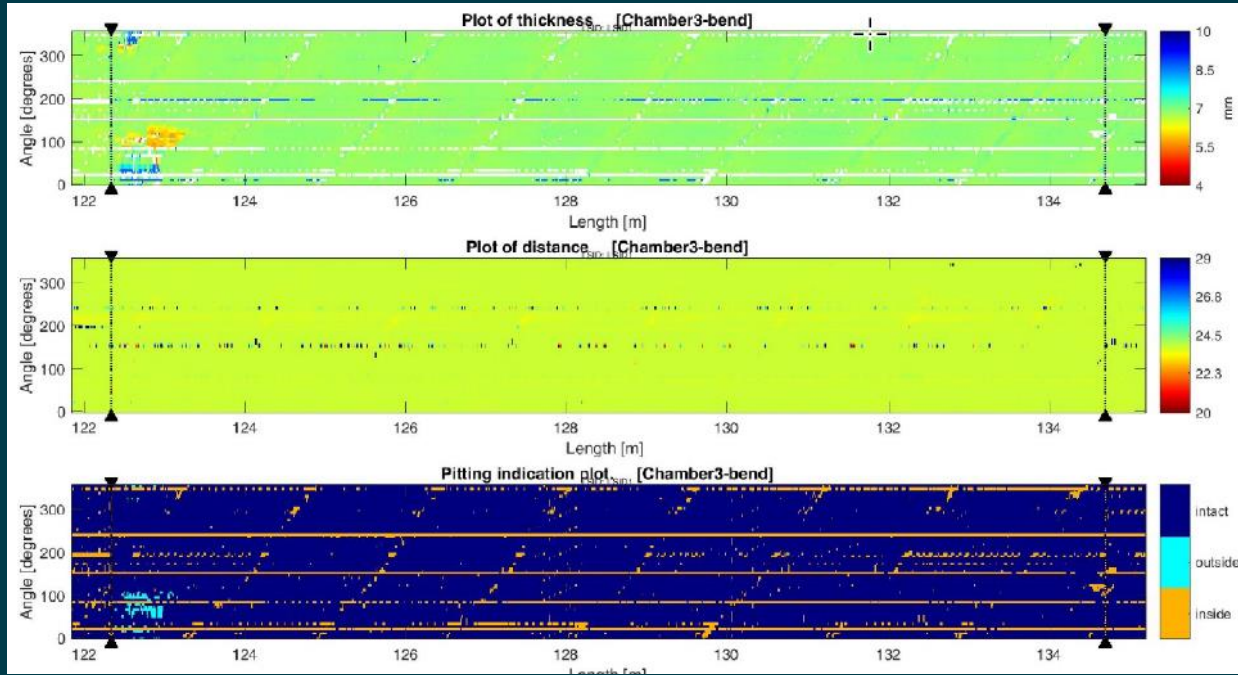
- 2 fiber optic cables for the camera
- 1 fiber optic cable for the ART-unit
- 1 fiber optic cable in reserve



EBV-159-01

FLEIRI VÍDEÓ

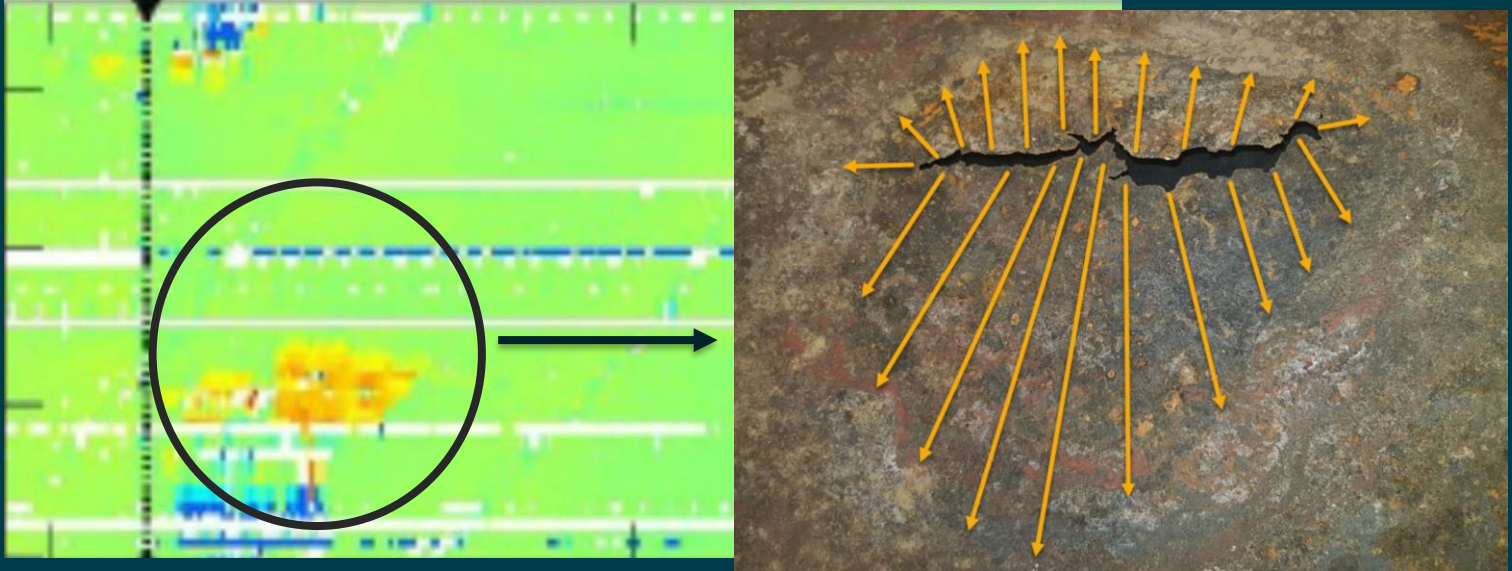
The scanning data



The Leak

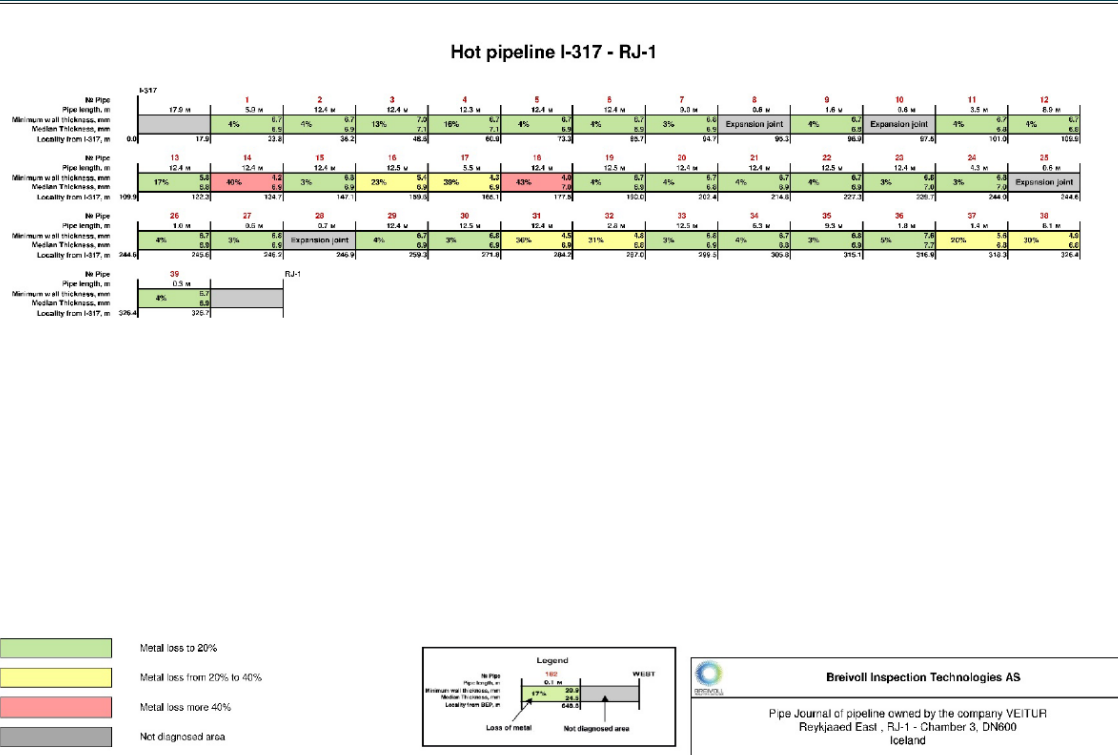


Perfect match



Pipe section map

Pic.3.3 Delivery pipeline map I-317 - RJ-1



Reykjaæð No.2

- 600 mm Dia
- Geothermal watertransfer pipe
- Major repair work



Scanned 6.3 km out of 3066 km network



- Condition based maintenance programs.



HAGSÝNI FRAMSÝNI HEIÐARLEIKI