

HDPE Pipe Electro-Fusion Coupling Inspection and Imaging Using Evisive Scan™ Technology



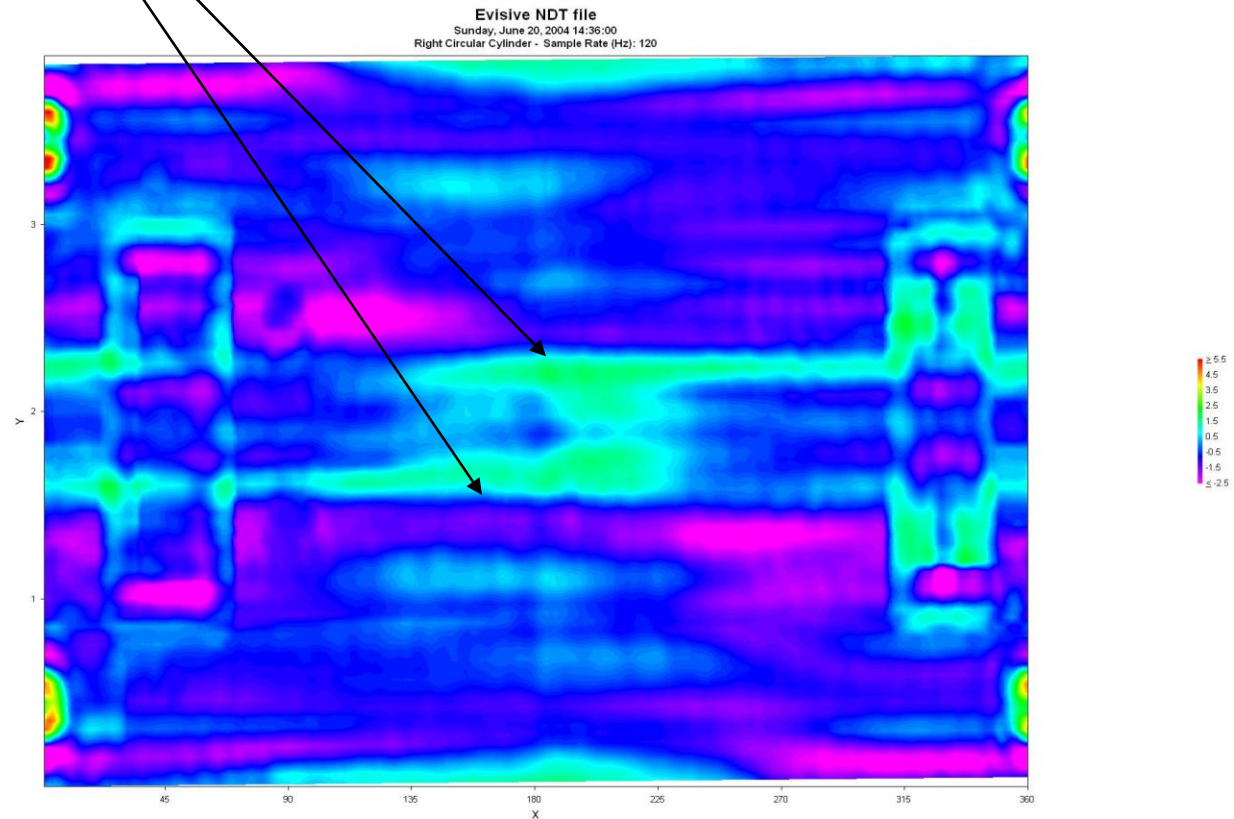
Electro-Fusion Coupling



4" Polyethylene Coupling and Piping

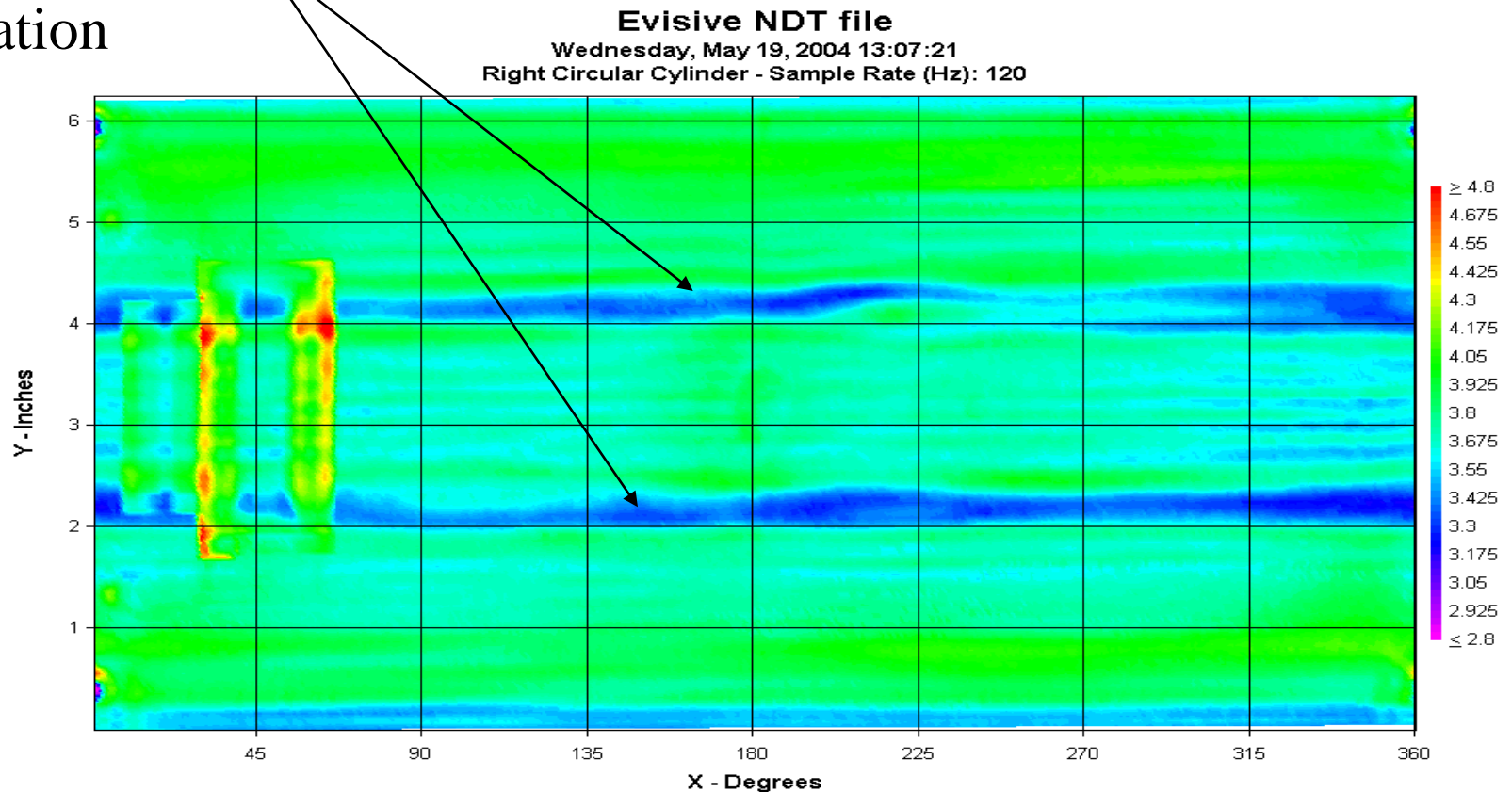
4 Inch Electro-Fusion Coupling Proper Insertion

Edges of pipe
shown at
proper location



4 Inch Electro-Fusion Coupling Poor Insertion

Edges of pipe
not at proper
location

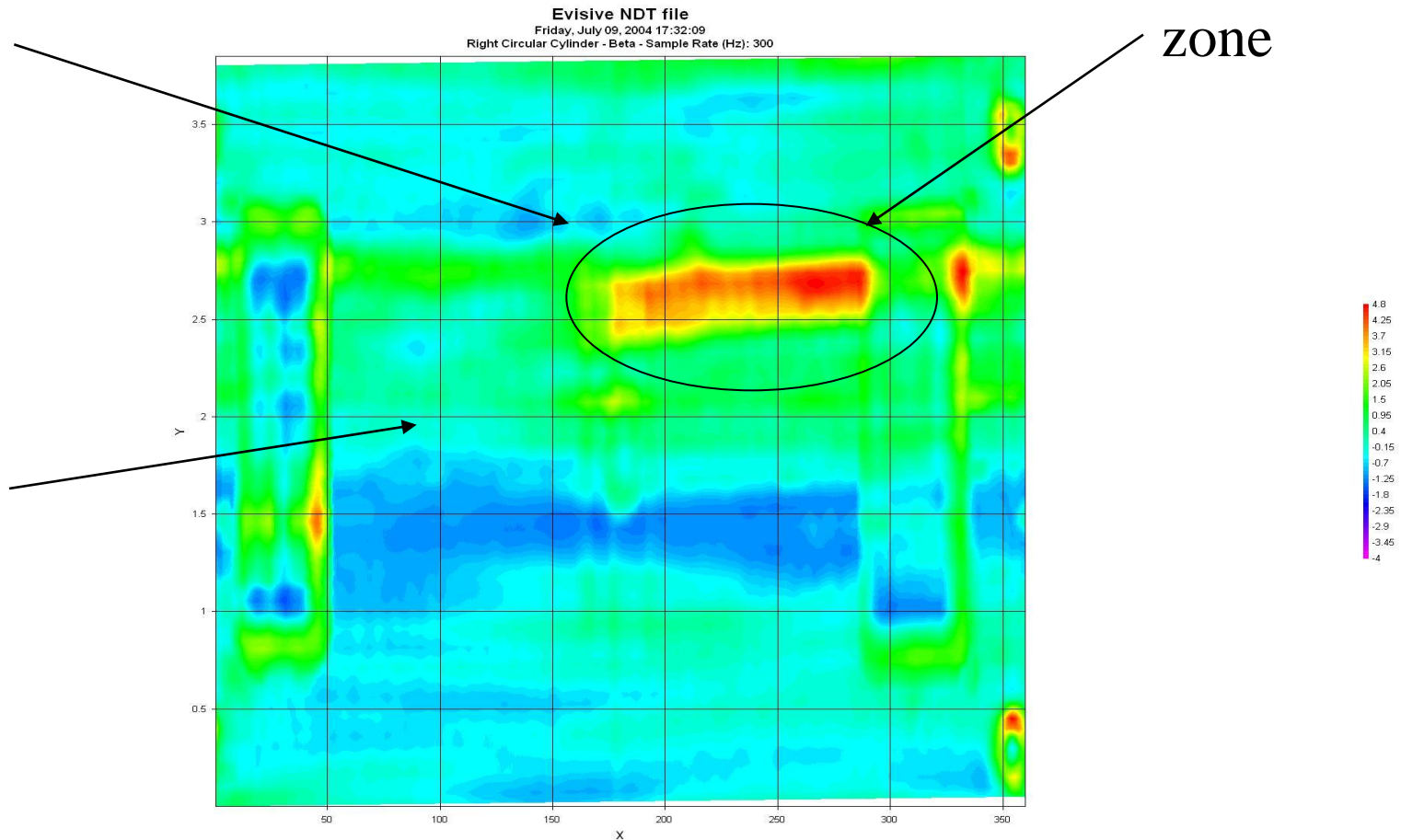


4 Inch Electro-Fusion Coupling Poor Insertion w/Melting

Edge of pipe at
wrong
location

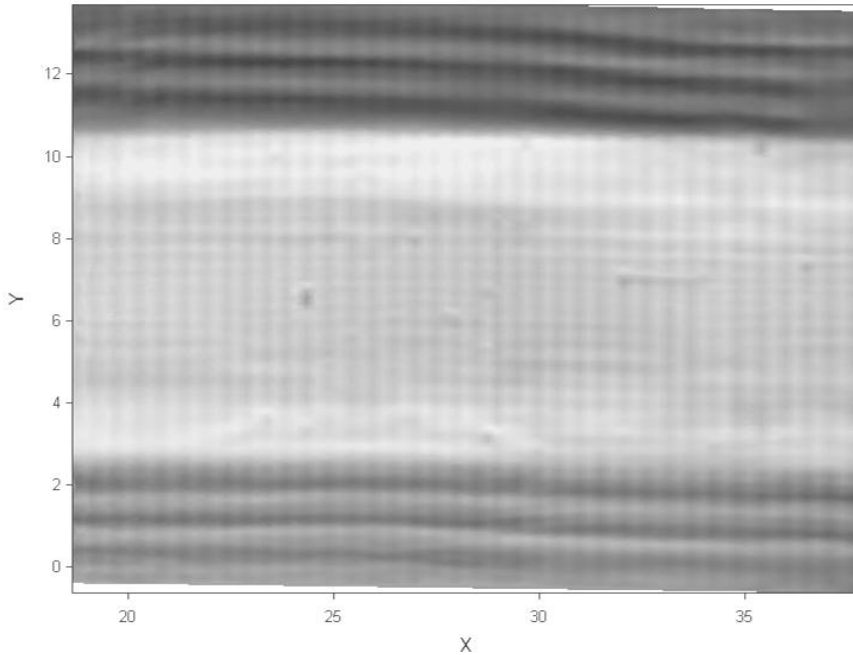
Edge of pipe at
correct
location

Melt
zone



Evisive NDT file

Wednesday, August 11, 2004 17:19:29
X - Y Table (Beta) - Sample Rate (Hz): 100



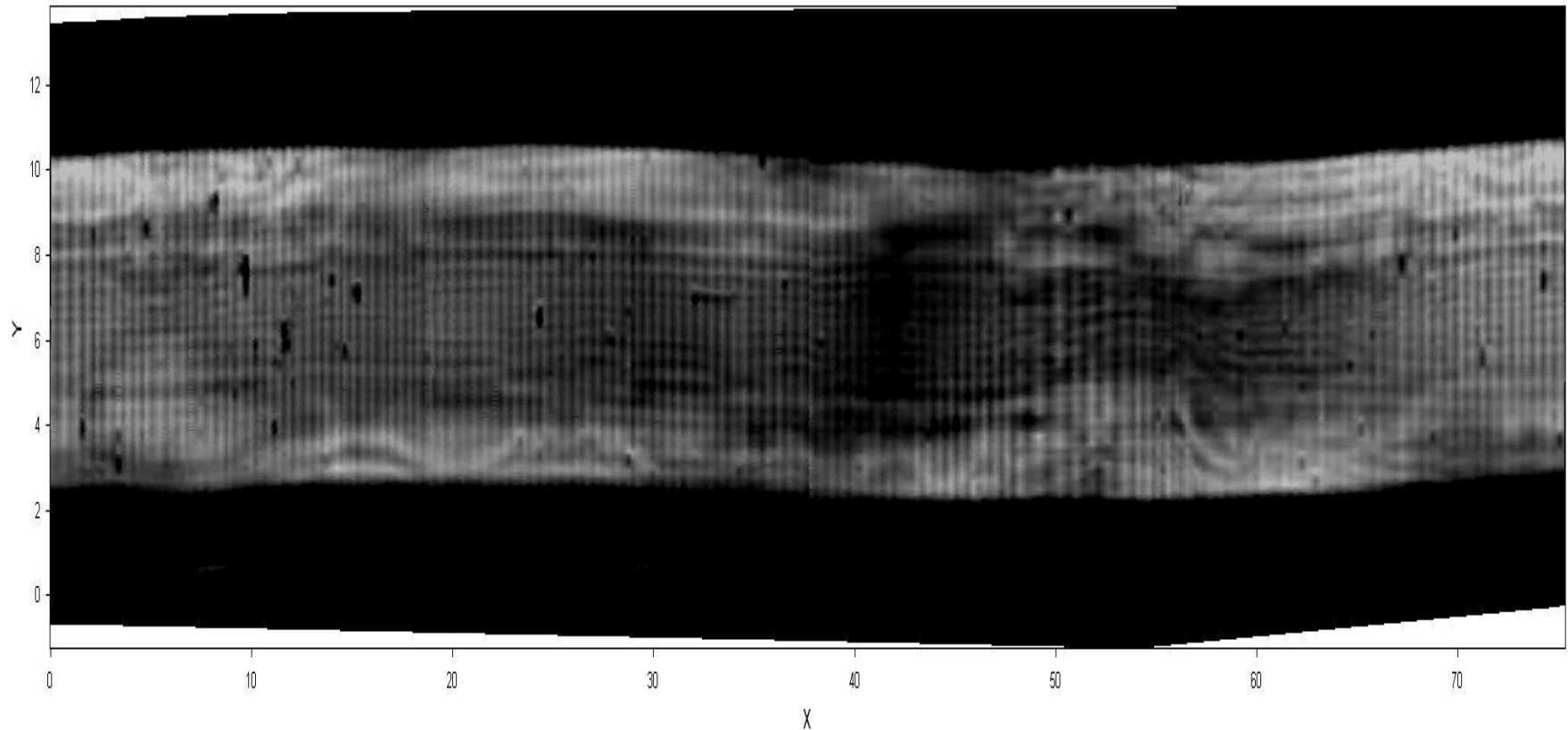
The scan image at left represents the inspection results for the electro-fusion coupling shown at right. These couplings achieve fusion with the pipe ends by resistance heating caused by passing a precise amount of power through wires embedded in the coupling body. Note the small indication near $X=24$, $Y=6.5$. This indication was caused by a small air bubble trapped in the molten plastic, and does not represent a rejectable defect in the electro-fusion coupling installation.

24 Inch PE Pipe Coupling Field Scan



24 Inch PE Pipe Coupling Field Scan

Wednesday, August 11, 2004 17:48:08
X - Y Table (Beta) - Sample Rate (Hz): 100





Defense and Aerospace Applications

Advanced materials require advanced NDE methods.

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