

Repair Comparison.

	Cut out and Replace	Welded Split Sleeve	Clock Spring
Throughput loss or lowering of pipeline pressure	Yes	Yes	None
Labour Force Required	Large	Large	Small
Labour Skill Level	High	High	Semi
Pre inspection for tie in points	Yes	Yes	None
Hot Work	Yes	Yes	None
Fillet Welds	None	Yes	None
Addition of heat affected zones and "new" stress areas	Yes	Yes	None
Post weld inspection	Yes	Yes	None
Annular Corrosion Exposure	None	Yes	None
Heavy equipment required	Major	Major	None
Health, Safety and Environmental Risk	Major	Major	None
Masking of future Intelligent Pig inspection	None	Yes	None
Productivity Rate	Slow	Slow	Fast