

T2+ Case Study - 36" Natural Gas Line

Figures 1-4 were taken following a failed ILI run after a competitor "cleaned" the line.









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We were called in to provide a product that would break down this debris matrix and clean the operators line successfully.

As seen in Figures 5-7, **T2+** broke down the debris into soft, flowable remnants that were pigged out of the line.



Figure 5 - Heavy Duty Cleaning Pig - T2+ Cleaning Run



Figure 6 - Heavy Duty Cleaning Pig - T2+ Cleaning Run

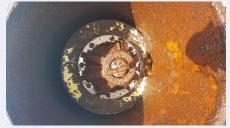


Figure 7 - Heavy Duty Cleaning Pig - T2+ Cleaning Run



Figure 8 - Gauge pig following 2nd cleaning run(unscathed)



Figure 9 - ILI Run with no debris in receiver



Figure 10 - Successful ILI Run after 2 cleaning runs

Note:

All the debris that came in during the cleaning runs was soft and flowable. T2+ broke the matrix and dissolved the iron sulfide and iron oxide debris that was restricting the pipeline flow. The operator was able to increase their profit per MCF from \$0.50 to \$2.50 because of little to no restriction in the line after we cleaned it. The lines throughput increased to 1BCF per day increasing the operators profit by \$2,000,000/day. The operator is extremely happy and is considering adding T2+ injection points along their pipelines to prevent this debris build up and keep their profits at a maximum.