



Production Cleaning Services



Engineering Expertise for Cleaning Production Pipelines

Production Pipeline Cleaning

Debris and deposits in pipelines will reduce product flow and if left unchecked can result in pipelines becoming blocked. A planned cleaning programme for pipelines will prevent the build-up of debris or deposits and therefore help ensure the expected product throughput is achieved.

PE offers a range of specialist engineering services to support the planned cleaning of production pipelines.



Sand and wax removed with a heavy duty cleaning tool

Pipeline Production Cleaning Services provided by PE

PE provides production cleaning services for specific projects or as part of ongoing framework agreements, covering different aspects of pipeline pigging and flow assurance services.

Services available from PE for the cleaning of production pipelines include:

- > Data gathering / site surveys
- > Pre-inspection cleaning
- > Preparation of cleaning methodology
- > Preparation of pigging procedures
- > Design, testing and validation of specialist cleaning tools
- > Supply of specialist cleaning tools and cleaning equipment
- > Progressive cleaning of pipelines
- > Execution of field operations
- > Management of third party services
- > Hazard / risk assessments
- > Design, fabrication and installation of pig launchers / receivers



Test loop and testing of dual-diameter cleaning tools



Wax removed from a 14" line with a dual module cleaning tool

PIPELINE ENGINEERING

"Engineered Solutions for the Pipeline Pigging and Flow Assurance Industry"





Case Study

WAX / SCALE REMOVAL FROM A CRUDE OIL PIPELINE

A client was having problems caused by the build up of wax / scale in 10", 12", 16", 20" and 30" crude oil pipelines. The 30" pipeline had not been pigged throughout its 30 year operational life.

PE prepared a progressive cleaning programme which was discussed and agreed with the client. The pipeline was taken out of service and put into water. Cleaning tools ranging from simple bare foam pigs to bi-directional wire brush cleaning tools and bi-directional bulldozer tools were propelled down the line using water.

Initially large quantities of wax were removed and as the cleaning operation became more aggressive, hard scale and metallic debris were also removed.

The progressive cleaning programme was carried out over a seven day period and a total of seventeen cleaning tools were run. The pipeline was put back into service and is now regularly pigged to avoid wax and scale build-up.



Pigging tool prior to cleaning run



Pigging tool after cleaning run

Industry Focus

PE operates in all industrial market sectors where pipeline flow optimisation is important including:

- > Oil & Gas
- > Chemical
- > Water
- > Pharmaceutical
- > Food & Drink
- > Mining
- > Power Generation
- > Sewage & Effluent
- > Nuclear

Production Cleaning Resources from PE

PE's pipeline production cleaning support team includes:

- > Project Managers
- > Process Engineers
- > Mechanical Engineers
- > Field Service Engineers
- > Specialist Technical Support Services

PE integrates product expertise with service support to provide a total project management capability.



On-site engineering support services