

Pipeline Services
Diagnostics

APPLICATIONS

- Locate position of blockages, obstructions or lost objects
- Mapping of deposit thickness and distribution
- Locate and quantify leaks*
- Pig tracking in real-time *

FEATURES

- No limitation in pipeline diameter
- Location detection to within 0.4% **
- Operable in Zone II harsh environment
- Operating pressure up to 10,000 psi (689 bar)
- Operating temperature range from 0 up to 185°F (85°C)
- Ambient temperature range from 0 to 104°F (40°C)
- Compliant with IATA 2014 regulations for air freight
- Small hand carry equipment case

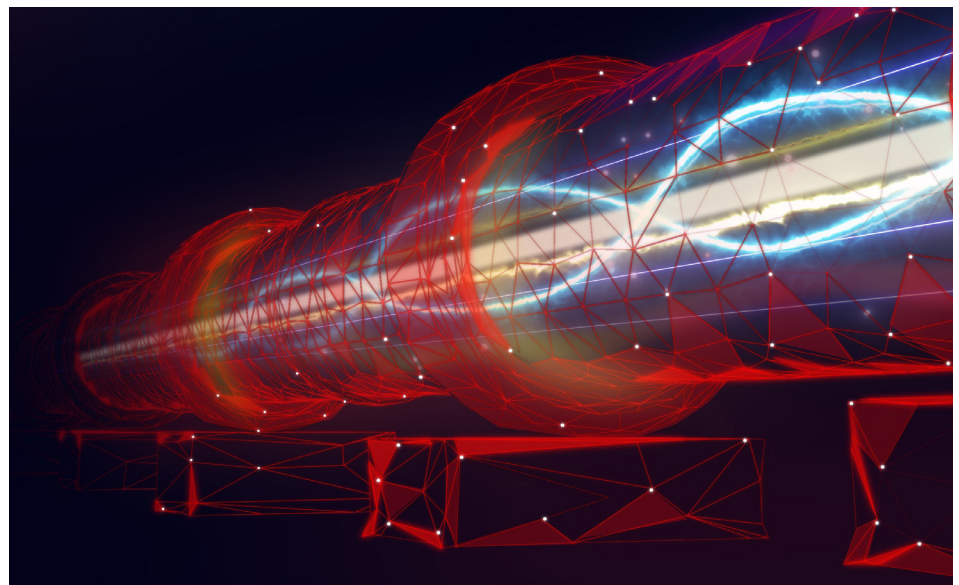
BENEFITS

- Call-out at short notice
- Non-intrusive
- Increase confidence before a clean-out operation
- Reduce the risks of a stuck pig during cleaning
- Track the progress of cleaning operations
- Collect data rapidly, with minimal equipment and personnel



InnerVue™ non-intrusive diagnostics service

Non-intrusive pipeline diagnostics service provides decisive insight to optimize asset performance management



Overview

InnerVue™ is a non-intrusive diagnostics solution for profiling deposits and identifying leaks* or locating blockages in pipelines and flowlines.

It can be used to baseline a pipe during pre-commissioning, to monitor the line conditions before, during and after a cleaning operation, and to diagnose leaks or blockages, and determine the location of stuck pigs. The service requires pressure wave measurement equipment to be tied in directly to the pipeline system for data collection. The data collected is then analysed using proprietary software to provide profiling of the pipe’s internal diameters or to locate leaks* and blockages, or track pigs transit* in near real time.

*Product team to be consulted and to approve application.

**Accuracy is dependent on parameters.

Deposit profiling

Halliburton developed the InnerVue™ deposit profiling technique as a non-intrusive method to measure deposit build-ups that could restrict flow and increase the risk of a stuck pig or blockage.

Blockage location

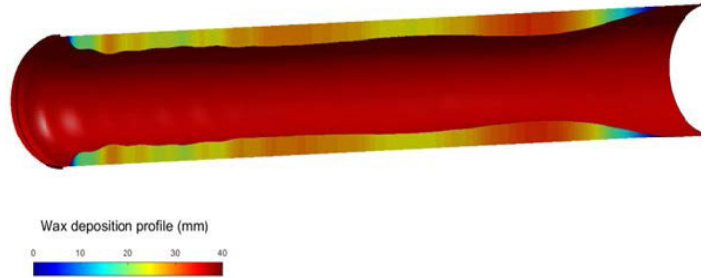
InnerVue™ non-intrusive diagnostics survey significantly reduces the time required to locate pipeline blockages and provides information that aids in determining the best course of action and entry point for remediation.

How it works

Halliburton's advanced technology, employed in InnerVue™, creates a pressure wave (or pulse) at one end of the pipeline, which travels at the speed of sound. This pulse returns a reflected signature response that corresponds to any features detected in the pipeline, including depositions of wax, hydrate, leaks or even a stuck pig or tool, that adversely impacts flow velocity, as well as the flow medium itself (density, viscosity, etc.). A high accuracy transducer is utilized to measure pressure variations, and signals from the transducer are logged at an ultra-high sampling rate. Once the data is collected and extrapolated into profiles, Halliburton's team of experts are available to help with diagnostic analysis and reporting to facilitate decision-making and remediation plans — without sacrificing production uptime and throughput.

Advantages

InnerVue™ can be executed with only one site technician, minimal setup and minimal operational impact to survey asset performance quickly and safely with a repeatable and verified high level of accuracy.



The debris profiling mode provides a lengthwise debris build-up analysis as shown in the figure above. This profile is crucial as an input for flow assurance, optimizing asset performance, lowering maintenance costs, and reducing cost and risk of physical intervention.



InnerVue™ diagnostic equipment, including pressure transducers (with different ranges), data-logger, cables and charger.

Maximize performance and integrity by knowing exactly what is in your pipeline.

Casing Specifications

	LENGTH	WIDTH	HEIGHT	WEIGHT	CONTENT
Interior	28.14-in (71 cm)	14.10-in (35.6cm)	11.72-in (29.8cm)	42-lbs (19 kg)	1 data-acquisition device Standard fittings for pressure transducers 1 Windows laptop 2 data communication cables (USB & Ethernet) 1 compact lithium battery and charger Spool Foam & Cord Storage Reel
Exterior	31.12-in (79 cm)	17.05-in (43.3cm)	13.33-in (33.9cm)	42-lbs (19 kg)	1 data-acquisition device Standard fittings for pressure transducers 1 Windows laptop 2 data communication cables (USB & Ethernet) 1 compact lithium battery and charger Spool Foam & Cord Storage Reel

Data-Acquisition Device Specifications

SIZE	WEIGHT	POWER SUPPLY	CONTROLS	CONNECTIONS
3.28D-in x 6.68W-in x 1.13H-in (83.31 cm x 169.67 cm x 28.7 cm)	0.36-lbs (0.16 kg)	Rechargeable lithium battery via USB interface for up to 96 hours.	Software based.	8 Analog input channels 7 Digital I/O Channels 1 Ethernet connector and 1 USB port

For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

Sales of Halliburton products and services will be in accord solely with the terms and conditions contained in the contract between Halliburton and the customer that is applicable to the sale.

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