

# Pigging Services

ADVANCED PIG TRACKING SOLUTIONS AND ANCILLARY PIGGING SERVICES

# Advanced Pig Tracking



Inline inspection (ILI) provides critical pipeline condition insight and is a commonly used inspection method for operators. ILIs can be costly to perform and must be carefully tracked in order to ensure that additional costs relating to lost tools do not arise.

Advanced pig tracking enables operators to keep track of these costly assets and helps ensure the data derived from a tool run is useful and informative.

The safest and most reliable tracking for any pig on any pipeline

The Armadillo Tracks system relies on a range of sensors to provide operators the most reliable tool tracking data available in the industry. A fully customizable solution, Armadillo Tracks can be used for both conventional and remote tracking based on the requirements for each different ILI run.

Our ability to pre-deploy AGMs and track tools from a remote control room minimizes the safety risks associated with traditional tracking and allows the pig to be tracked through even the most challenging areas.

## The Solution

- Pigs are tracked using multiple sensors for improved accuracy
- AGMs record a snapshot of each pig passage and continuously record data, providing a defensible data log
- LiveMap allows for real-time viewing of a pig's progress
- Accurate site survey

Remote tracking results in significant cost savings by providing reliable benchmarking to reduce repair costs, and by reducing the number of staff and resources needed to track multiple pig runs.



*Over 10,000 pigs tracked  
across North America*

# Permanent Remote Pig Tracking



Many operators face integrity challenges concerning their most critical pipelines and are often under increased pressure from industry regulators to inspect critical lines more frequently to ensure they are being operated safely.

The field resources needed to track tools on routinely pigged pipelines can be significant and costly for operators of critical pipelines. Safety risks also rise with an increased number of field personnel required on the right of way (ROW) and become exacerbated when considering difficult or challenging ROWs.

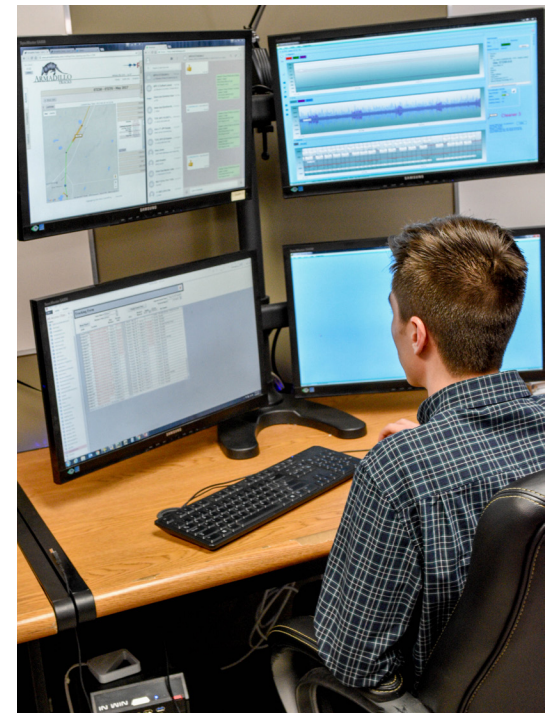
The only permanent remote tracking system in the industry

Permanent deployment of the Armadillo Tracks system is ideal for routinely pigged pipelines or pipelines with ROW access challenges. Permanent AGMs reduce spend on field resources for regularly pigged lines and reduce the safety risks involved with tracking tools along challenging ROWs.

## The Solution

- Pigs are tracked using up to seven sensors for improved accuracy
- AGMs record a snapshot of each pig passage and continuously record data, providing a defensible data log
- Annual site access to service AGMs
- AGMs are powered on and off remotely at the outset and close of tool runs
- LiveMap allows for real-time viewing of a pig's progress
- Accurate site survey

Permanent deployment of the Armadillo Tracks system can be integrated with additional pipeline sensors to provide more comprehensive data for use in making sound pipeline integrity decisions.





# Real-Time Tool Run Viewing



When inline inspection (ILI) tools are operating in a live pipeline, it is important to know their exact location and speed. Not only are some ILI tools very expensive to replace, but a lost or stuck pig can obstruct product flow and lead to unwanted service disruptions, or at worst, a pipeline rupture. Accurate and reliable tracking information provides peace of mind for operators during tool runs.

Tool tracking you can rely on

LiveMap is a web-based application that allows real-time viewing of an inline tool run. When tracking remotely, it allows a single technician at a central location to monitor the pig's position, velocity and estimated time of arrival.

LiveMap also allows any stakeholder in a project to subscribe to run updates and get real-time SMS or email notifications relating to flow changes, stoppages, pig passages, launches or estimated arrivals. This provides operators with better, more reliable data for tracking ILI programs.

## The Solution

LiveMap is included with every PureHM tracking project and provides operators and stakeholders with more reliable information about their tool runs.

- Web-based reporting application
- Real-time information on ILI run
- Customizable SMS or email updates on events
- Live view of a pig's position In GIS viewer for conventional, remote or permanent tracking

LiveMap's ability to provide near-instantaneous updates about what is happening during the run allows for faster response times and better results. The platform is flexible and can be used on both web and mobile applications, and each run can be shared with several stakeholders.



# Ancillary Pigging Services



ILI is the most widely used method for evaluating pipeline integrity across the midstream market.

Many operators dedicate a significant portion of their integrity budgets to ILI in order to gain valuable integrity insights.

Various services are needed to ensure an ILI is successful. Working with a trusted partner to provide these services can save time and resources for operators.

A single source for ancillary pigging services

Our team works with operators to source and schedule the various equipment and services needed ahead of any tool run.

## The Solution

- Pig launchers
- Pig receivers/traps
- Pigs
- Field services
- Conventional, remote and permanent remote tracking services

We aim to simplify your ILI process and ensure that your tool run goes exactly as planned.



## Get More from PureHM

**PureHM, a Xylem brand** provides pipeline integrity solutions that help companies safely and reliably deliver crucial energy resources. Our best-in-class technologies provide operators with actionable information needed to identify problem areas, reduce unnecessary pipeline repairs, and prolong asset life. See how PureHM can help protect your pipelines, your reputation, and your bottom line.



**ABOVE-GROUND  
INSPECTION  
SERVICES**



**LEAK DETECTION  
SERVICES**



**CORROSION  
CONTROL  
SERVICES**



**PIGGING  
SERVICES**

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