FLYSCAN™

CAPABILITIES ANNOUNCEMENT

Hyperspectral Methane Detection

April 22, 2026

Demonstrated and Validated

ONE POD • METHANE AND LIQUIDS • 4,400 MILES • 12 CONFIRMED LEAKS • ONE PASS

A NEW STANDARD FOR PIPELINE INTEGRITY

The world’s first combined methane and liquid detection.

One solution. Complete coverage. Why this matters:

- Most operators rely on costly third-party remote sensing companies, time-consuming ground inspections, periodic walkovers, or members of the public to identify methane leaks.
- These methods miss small, slow, or isolated releases — leaks often go undetected until a regulatory audit or incident.
- No combined Methane, Liquids and threat detection solution has existed — operators must engage separate vendors, adding cost duplication, complexity, and delays.
- Product loss from undetected leaks directly impacts operator revenue.

Undetected leaks undermine operators’ core mission:
ROW Integrity, Safety, Operational Excellence, and Investor Value.

FLYSCAN

Capabilities Demonstration Overview

- **Objective:** Demonstrate Flyscan's new Methane Leak Detection capabilities in a live operator mission.
- **When:** February 2026
- **Assets:** Gas and liquid pipelines and related operations infrastructure
- **Distance:** 4,400 miles
- **Location:** United States
- **Platform:** Cessna 172 with standard Flyscan Pod and onboard Right-of-Way Patrol / Threat Detection Solution
- **Data Processing:** Post-mission processing by Flyscan under standard operating parameters

LAUNCHING Q4 2026

FLYSCAN

EXECUTIVE SUMMARY

Mission Outcomes: 12 Confirmed Leaks

ASSET TYPE	⚠ BEFORE: WHAT THE OPERATORS' KNEW	✓ AFTER: WHAT FLYSCAN FOUND
Compressor Station	Normal operations. No alarms, no sound, no odor flag.	**Active methane leak: leaking valve.** Unknown to operator. Fixed within days of the Flyscan pass.
Underground Pipelines	No surface indicators whatsoever.	**5 confirmed underground leaks** across multiple operators, completely invisible from ground level.
Pig Launcher	Blow down valves in active service. No reported issues or pressure anomalies.	**Methane plume detected aerially.** Ground crew confirmed only with soap & water bubbles. Valve plugs taped and tightened.
Tank	No flag raised. Not on the patrol priority.	**Leak detected and flagged** for immediate investigation.
False Alarms	—	**1 out of 13 events:** 12 confirmed real across 4,400 miles.

Deep Dive into Mission Results

LIVE WALKTHROUGH · EVENT ABC-1686-1

THE LEAK THAT MADE NO SOUND.

⚠ BEFORE — GROUND LEVEL REALITY
Crew on routine rounds. No alarm triggered. No audible hiss. No odor at detection threshold.

FLYSCAN PASS
Hyperspectral sensor registers a methane concentration signature at the compressor station. Algorithm flags it: **Important Event — leaking valve.**

✓ AFTER — RESOLUTION
Operator dispatches crew — not from suspicion, but from data. Valve confirmed leaking. **Fixed. Leak gone.**

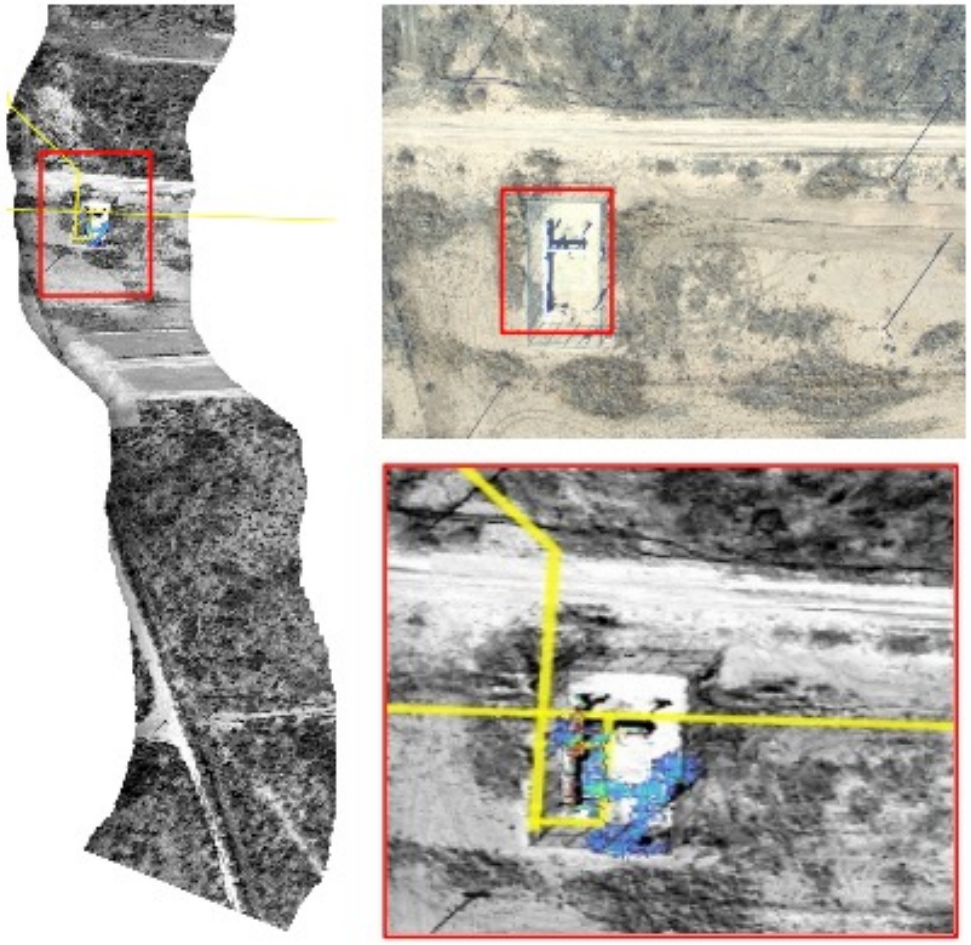
LIVE WALKTHROUGH · EVENT ABC-1719-1

FOUND FROM THE AIR.
CONFIRMED WITH SOAP BUBBLES.

⚠ BEFORE — GROUND LEVEL REALITY
PIG launcher in active service. No audible leak noise. A routine asset on a routine corridor.

THE FLYSCAN PASS
Hyperspectral sensor detects a methane signature at the pig launcher location. Detection confidence: Supplemental Event. Flag raised. Report generated.

✓ AFTER — GROUND CREW RESPONSE
Crew dispatched to investigate. They apply soapy water to the plug threads. Leak confirmed.



LIVE WALKTHROUGH · EVENTS ABC-1702-2 THROUGH 1702-6 · UNDERGROUND SERIES

CROSS-COMPANY UNDERGROUND DETECTIONS.

ABC-1702-2 & 1702-3
Confirmed underground pipeline leak. No surface trace. Third-party operator's infrastructure. Third-party notified.

ABC-1702-4
Confirmed underground pipeline leaks. No surface trace. Third-party operator's infrastructure. Third-party notified.

ABC-1702-5 ★ KEY FINDING
Confirmed underground pipeline leaks. No surface trace. Third-party operator's infrastructure. Third-party notified. Algorithm also picked up liquids signature.

ABC-1702-6 + 1686-2 + 1718-1
2 leaking underground valves (1702-6) + additional underground valve leaks across corridors 1686 and 1718.

"Five leaks. Underground. Invisible from the air. Found in a single pass."

WHAT GROUND METHODS WOULD HAVE NEEDED

✗ Excavation to locate underground source
✗ Prior knowledge of the third-party corridor
✗ A reason to look — there were no surface signs
✗ Manual labor-intensive search with OGI or FID handheld sensor
✓ **Flyscan: one aerial pass**

FLYSCAN™

BEHIND THE NUMBERS

IN-DEPTH ANALYSIS

13 EVENTS TOTAL

EXECUTIVE SUMMARY: COMPLETE EVENTS

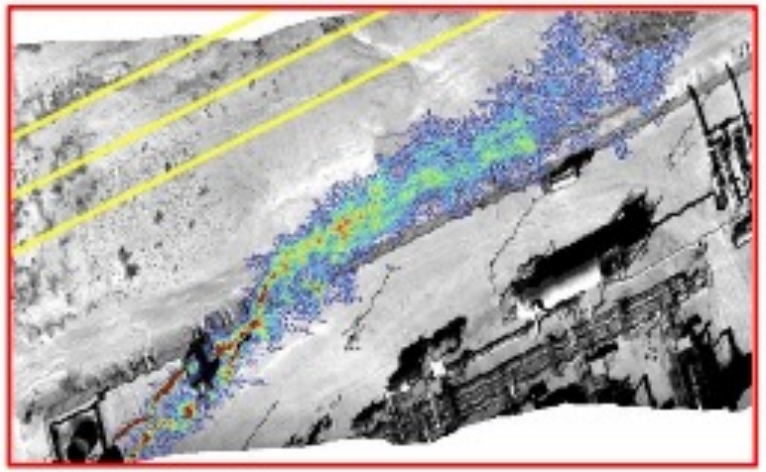
Event ID	Asset Type	Notes
ABC-1702-1	Tank	Leaking tank, third party notified
ABC-1686-1	Compressor station	Leaking valve, unknown to customer — fixed after discovery
ABC-1702-2	Underground pipeline	Confirmed leak
ABC-1702-3	Underground pipeline	Confirmed leak
ABC-1702-4	Underground pipeline	Confirmed leak
ABC-1719-2	Compressor station	Leak at compressor station
ABC-1702-5	Underground pipeline	Gas and Liquid hydrocarbon match — confirmed leak
ABC-1702-6	Vent stack	Investigating source 2 leaking underground valves
ABC-1703-1 ABC-1713-1	Possible valve switching at time of the flyover Dump Line	Leaking line from dump to tank. Operator notified.
ABC-1719-1	Pig launcher blow down valves	Taped valve plugs and re-tightened. (No audible leak)
ABC-1686-2	Underground valves (in vaults)	Leaking underground valves (greased valves / adjusted packing) Barely audible inside vault.
ABC-1718-1	Underground valves (in vaults)	Leaking underground valves (greased valves / adjusted packing) Barely audible inside vault.

**Note: Yellow lines in the following pages are pipelines*

ABC-1702-1

REPORT NOTE

“Leaking Third Party Tank.”



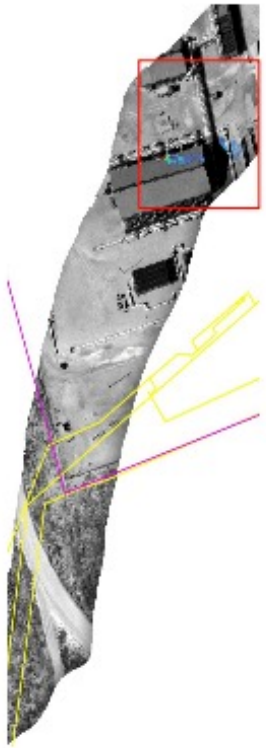
ASSET TYPE

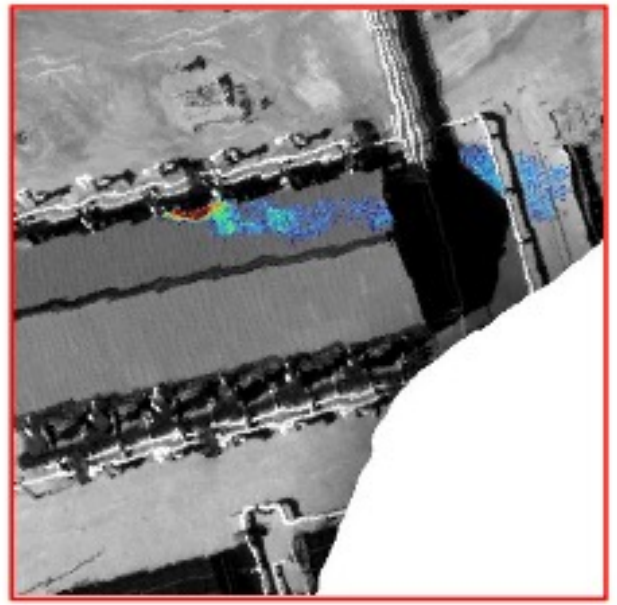
Tank

ABC-1686-1

REPORT NOTE

"Leaking valve, unknown to customer. Was replaced after discovery."





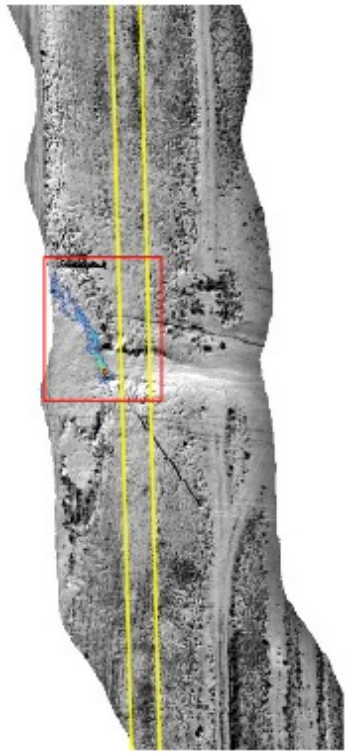
ASSET TYPE

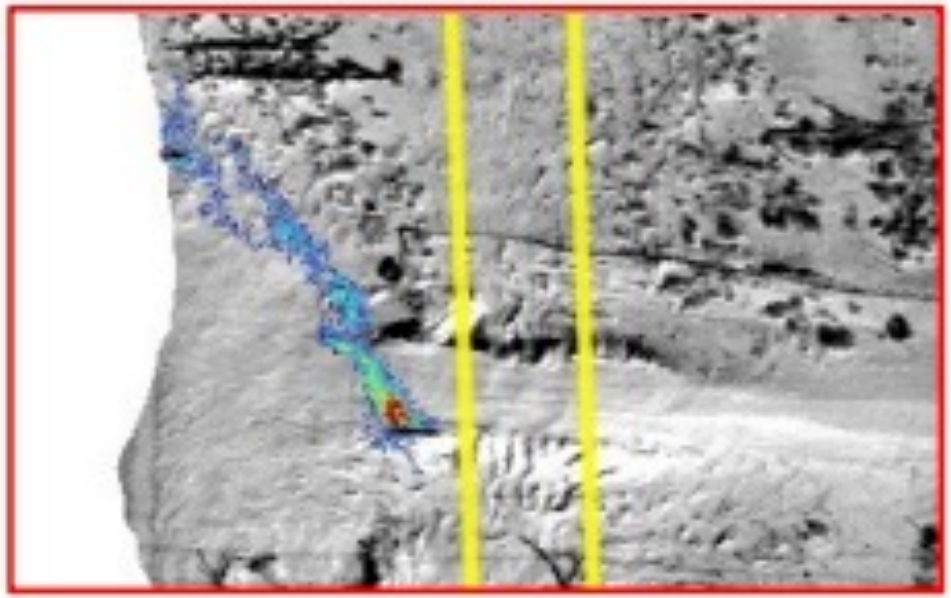
Compressor Station

ABC-1702-2

REPORT NOTE

"Confirmed underground pipeline leak. Third-party operator's infrastructure."





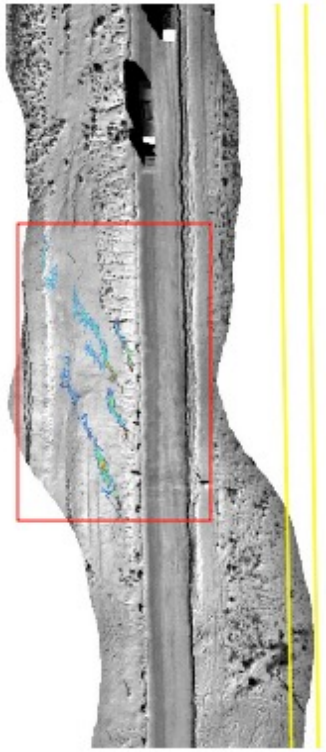
ASSET TYPE

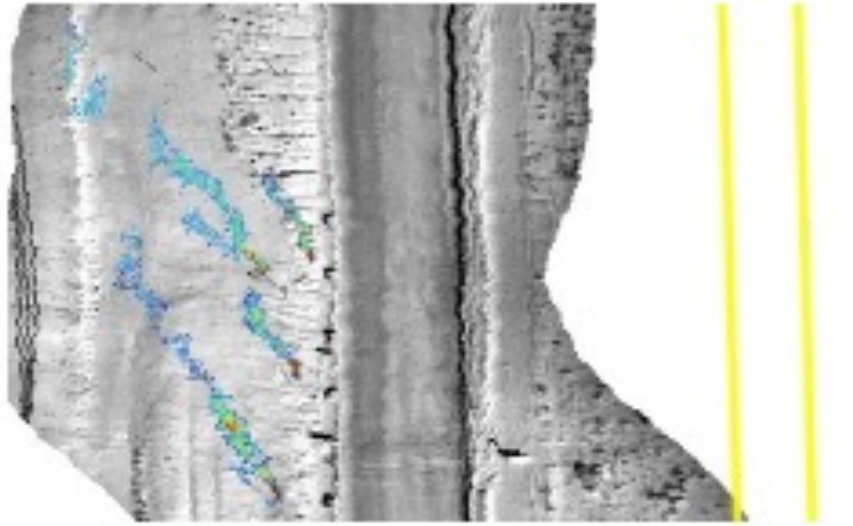
Underground Pipeline

ABC-1702-3

REPORT NOTE

"Confirmed underground pipeline leak."





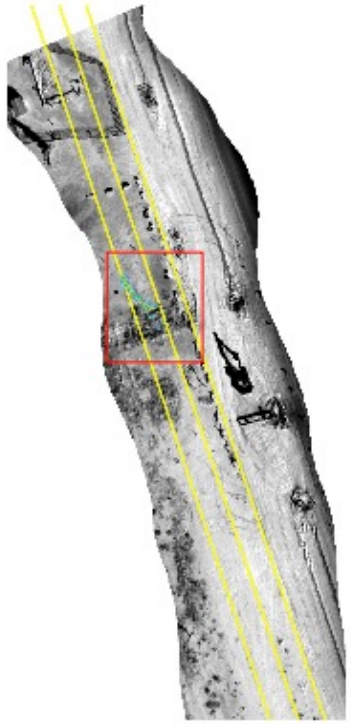
ASSET TYPE

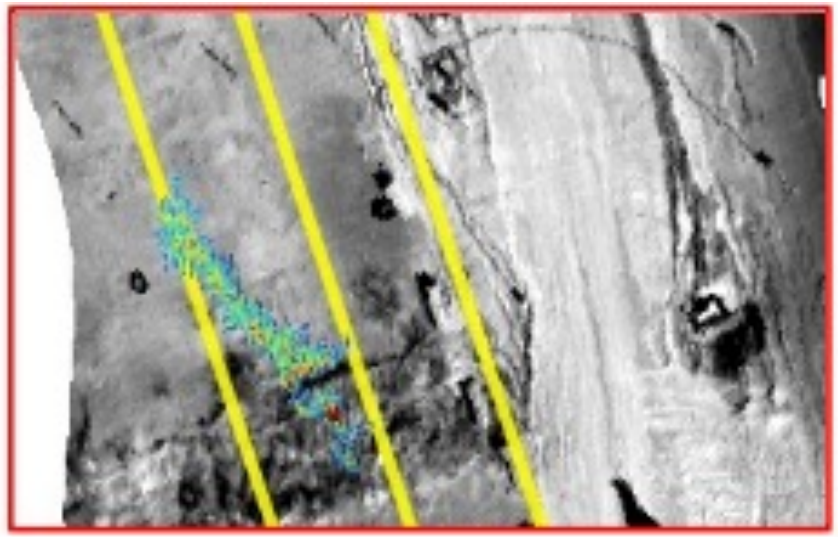
Underground Pipeline

ABC-1702-4

REPORT NOTE

"Confirmed underground pipeline leak."





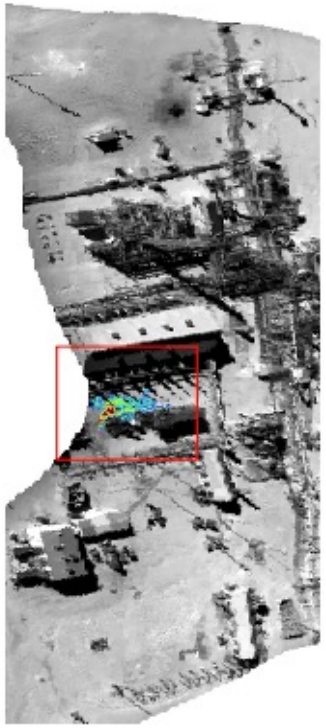
ASSET TYPE

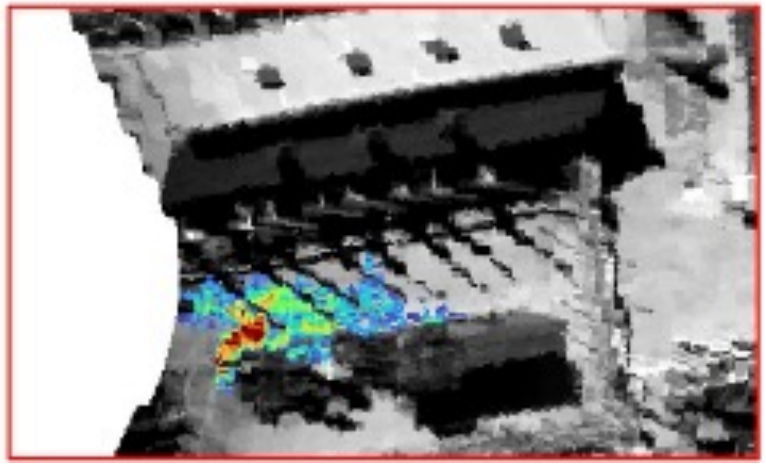
Underground Pipeline

1719-2

REPORT NOTE

"Leak at compressor station."





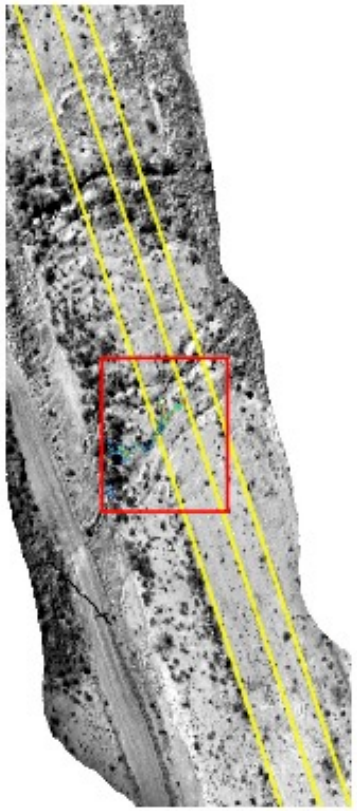
ASSET TYPE

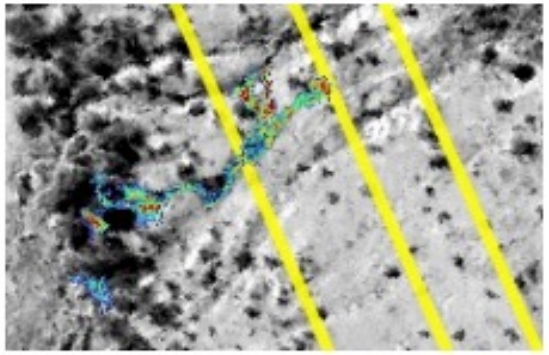
Compressor Station

ABC-1702-5

REPORT NOTE

"Strong detection score on the liquid hydrocarbon algorithm and perfect visual match. Confirmed underground pipeline leak."





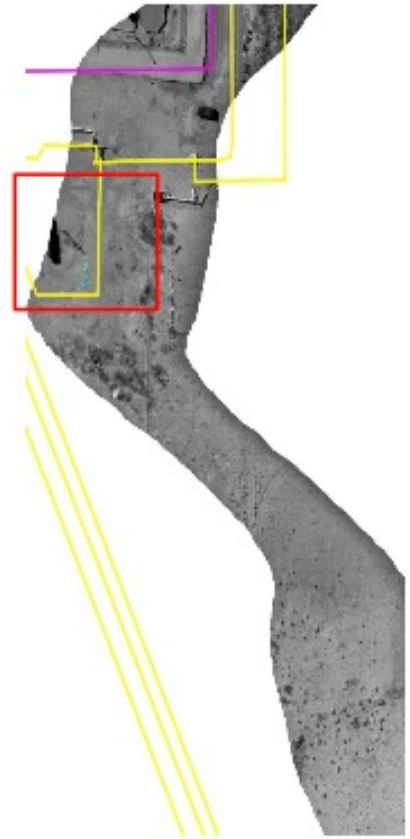
ASSET TYPE

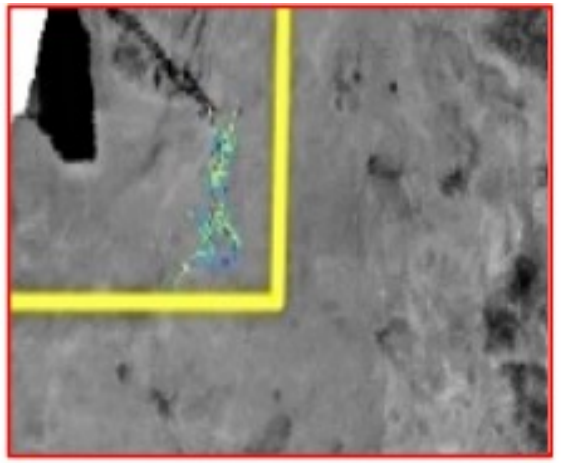
Underground Pipeline

ABC-1702-6

REPORT NOTE

Station vent stack





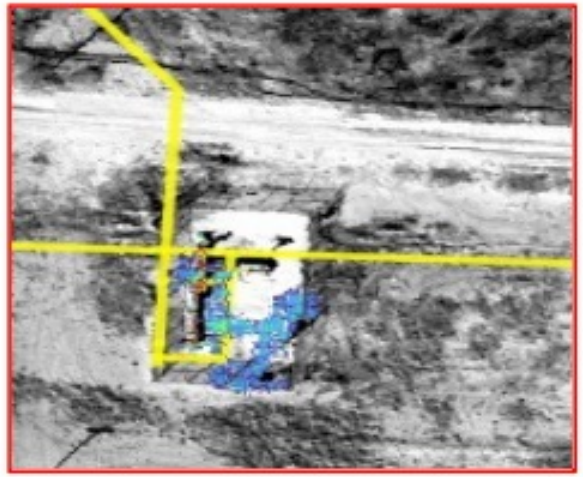
ASSET TYPE

Underground Pipeline

ABC-1719-1

REPORT NOTE

"Pig Launcher blow downs leaking Leak confirmed on the ground using water and soap bubbles."



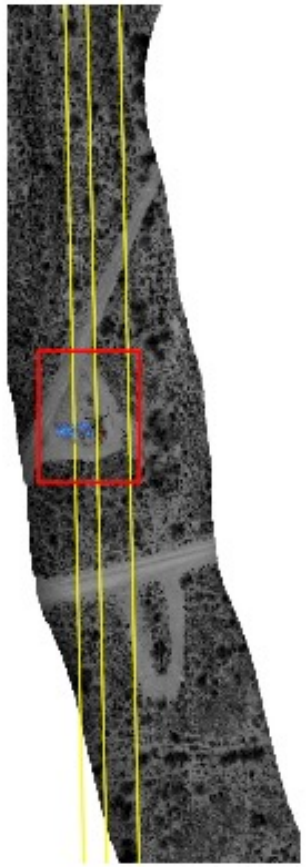
ASSET TYPE

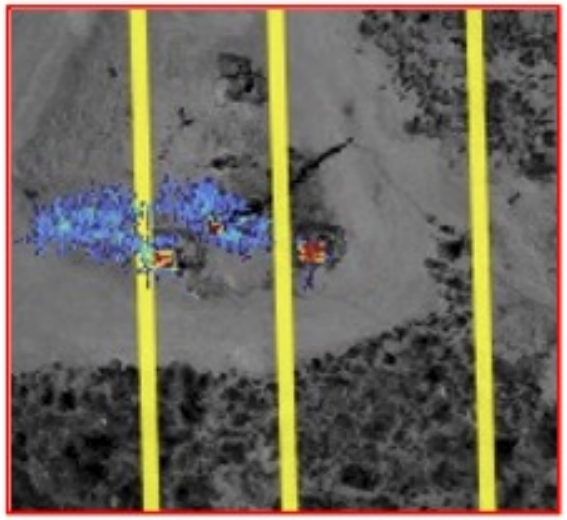
Pig Launcher

ABC-1686-2

REPORT NOTE

"Leaking underground valves in valve vaults."





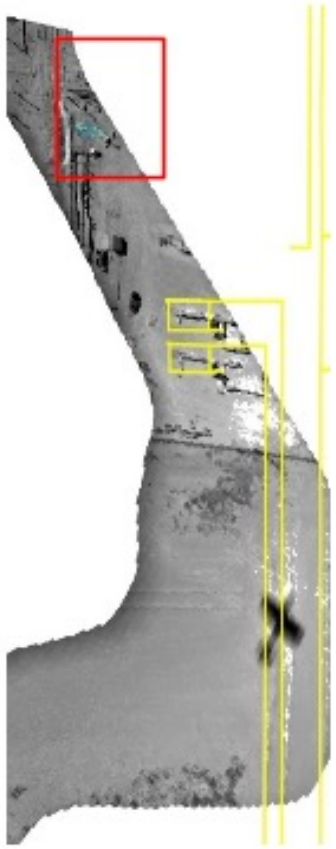
ASSET TYPE

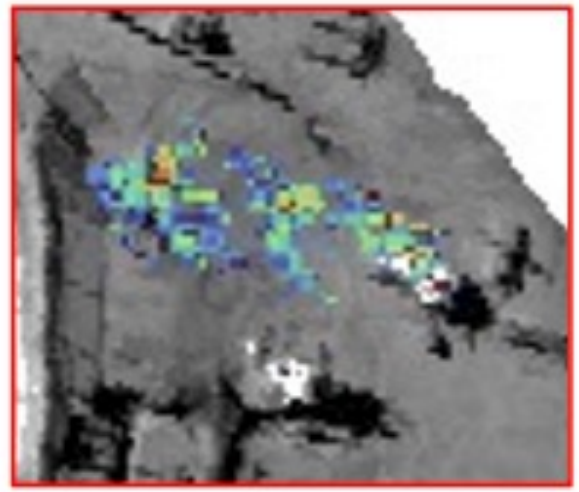
Underground Pipeline

ABC-1718-1

REPORT NOTE

"Leaking underground valves. In valve vaults"



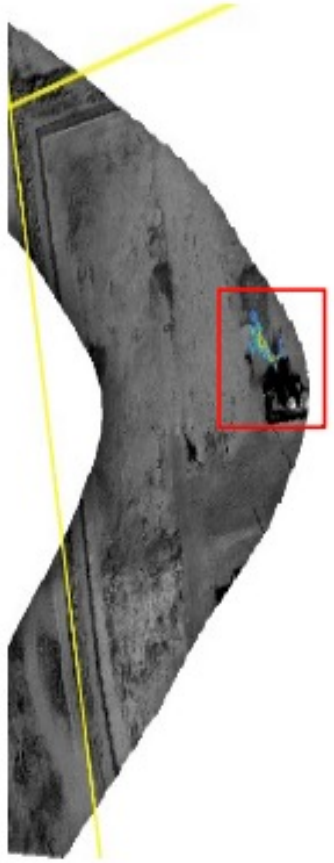


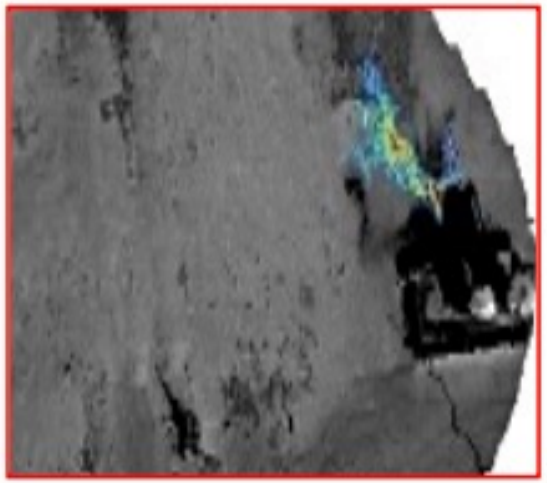
ASSET TYPE

Underground Pipeline

ABC-1713-1

REPORT NOTE
Well site





ASSET TYPE

Underground Pipeline

FLYSCAN

THE POD

Compatible, Effective, Low-burden

- **HySpex Hyperspectral Camera**
  Captures short-wave infrared spectrum images to spot leaks
- **Digital cameras**
  High-res imaging for documentation and Threat Detection
- **AI Object Detection**
  Analyzes and report data in real time, filters relevant threats
- **GPS & Positioning**
  Provides precise geo-referencing for all detections and geospatial models
- **Onboard Computer System**
  Integrates and processes data from all sensors
- **Pilot User Interface (iPad)**
  Displays alerts and images to pilot, provides navigation
- **Compatible with Patrol aircraft**
  Fit for purpose on a Cessna 172, 182 or 206

Positive Outcomes for Pipeline Operators

- **ROW Integrity, Safety & Operational Excellence**
  - Detecting both threats, liquid and methane leaks in one patrol pass strengthens ROW integrity and safety outcomes
  - One vendor for Threats, Liquids and Methane reduces supplier costs, complexity, and scheduling delays
  - Operators with shared product (methane and liquid) achieve compliance and identify risks on a single Flyscan pass

- **One Platform, Multiple Use Cases**

  The same Flyscan pod also supports:
  - Real-time threat detection notifications
  - Exposed pipe detection
  - Geohazards detection
  - Automated post-weather inspections
  - Lidar-like surface and terrain geospatial models

- **Cost Savings**
  - High-resolution imagery captured every patrol (~3 weeks) gives operators full ROW visualization and offsets costs for:
  - Third-party imaging
  - LIDAR
  - Depth of cover survey
  - Vegetation management analysis
  - Class location analysis
  - Change detection

FAQ

- **Q: What changed and why can Flyscan now identify methane leaks?**
- A: Flyscan leveraged deep learning from its liquid leak detection expertise to develop combined liquid and methane detection. The existing HySpex hyperspectral camera, paired with new physics-based methane algorithms and AI-accelerated post-flight processing developed by Flyscan, enabled this breakthrough.

- **Q: Do existing customers need to upgrade their hardware?**
- A: No. The pods are unchanged — Flyscan's software is being updated to enable post-flight liquid and methane leak detection.

- **Q: When will methane leak detection fully launch?**
- A: Q4 2026