



For more information or to view a software demonstration, please visit www.atshelo.com

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AVIATION TECHNOLOGY SERVICES

Advanced Pipeline Leak Detection: Reliable Readings. Fast Results.



AVIATION TECHNOLOGY SERVICES (ATS)

Who We Are:

- FAA-certified, full service helicopter company dedicated to serving the energy industry.
- Our helicopters are turbine powered Bell JetRangers 206B3.

What We Offer:

- Gas recognition/quantification of pipelines.
- Streaming digital video surveillance.
- Transport personnel directly to trouble spots on our pipeline.

How It Works:

- The Boreal Laser is mounted to the bottom of the Bell JetRanger helicopter and measures methane gas particles as it flies over pipelines.
- This system is sensitive to 1ppm CH₄.
- The laser has a built-in stable calibration reference cell, which automatically checks to eliminate zero and span drift.
- The laser can pick out individual gas absorption lines.
- The laser detects and measures CH₄ molecules only and does not suffer from interferences better than infrared/UV systems.
- The system filters out H₂O, CO₂ or other gases to eliminate interference.
- The laser accurately detects leaks while the helicopter is flying between 40 and 50 mph. Environmental conditions such as sun, clouds, temperature and ground cover do not impact the ability to accurately survey and detect methane.

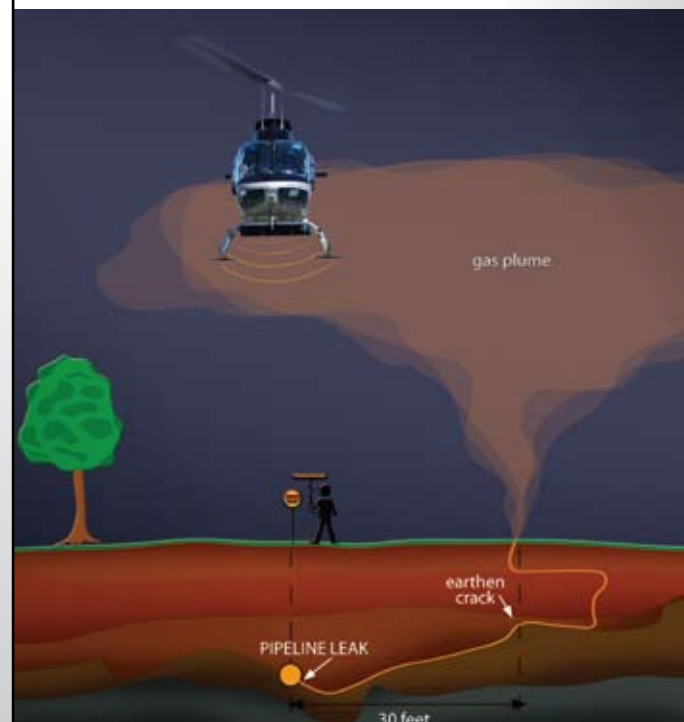
Client Data Delivery:

- Simple to read, easy to review and extremely reliable.
- Cost effective, proven detection.
- No delay in receiving results (data processed in seconds).

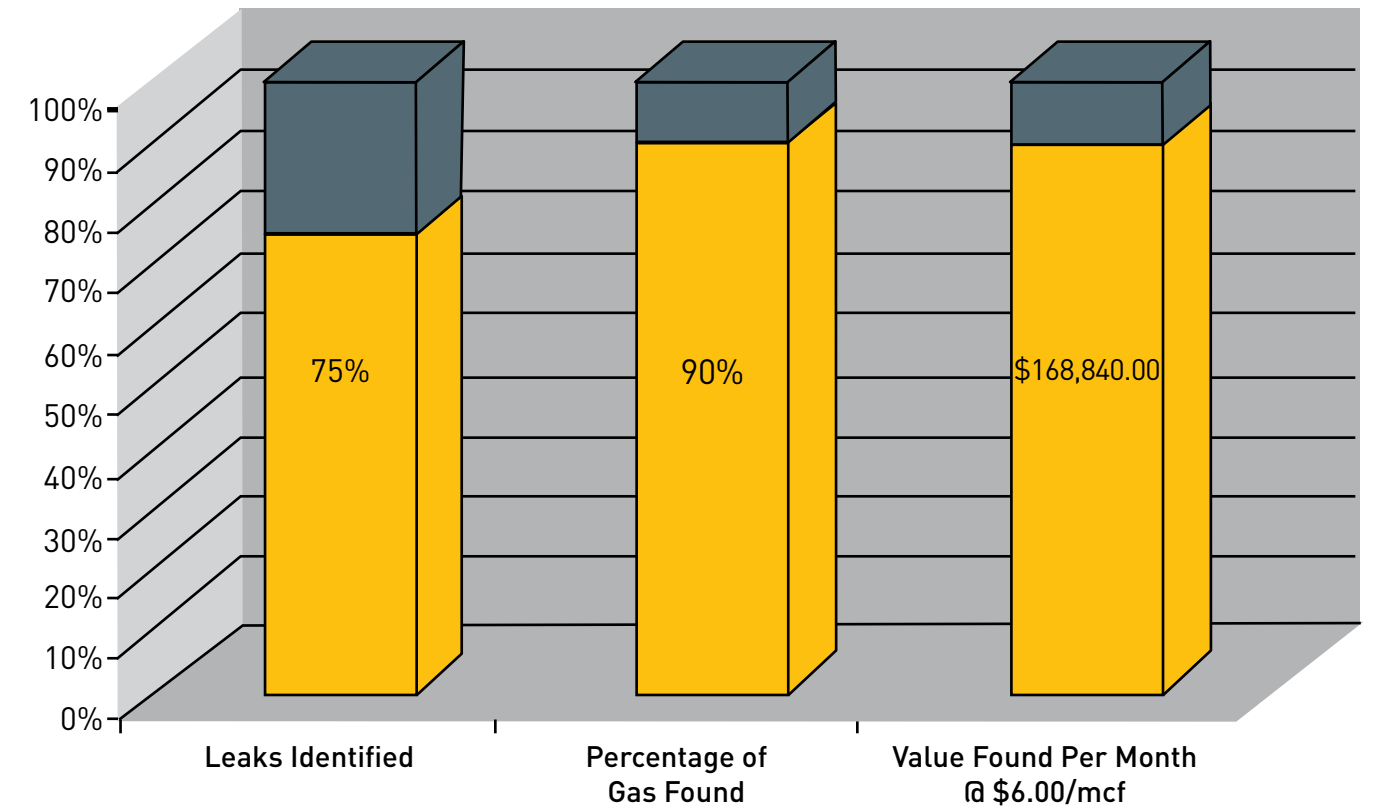
Reviewing the Scan:

- We provide a digital video and audio record of flight, encoded with GPS coordinates.
- Our user-friendly Interface allows you to click anywhere on the flight path and view video recording of what was beneath the helicopter at that moment.
- The Digital Flight Record also allows for examination of areas of interest such as exposed pipe, problems with right-of-way or other concerns.

The Boreal Laser can detect gas plumes from leaks that escape the ground away from the pipeline.



RMOTC Study: ATS Total Findings



Study Results:

The Department of Energy

(Published Jan., 2007)

- ATS detected methane leaks of 500, 100, 10-15 and 1.8scfh.
- Identified 90% of all gas released during the testing period.
- ATS performed better than any other ground or airborne based system.

Why Choose ATS?

- Only company in the U.S. offering the Boreal Laser leak detection system.
- Monitoring pipelines in Canada, Europe and the Middle East for more than a decade.
- Cost effective services: ATS monitoring cost is approximately \$75 - \$100 per mile compared to \$200-\$400 per mile for surveying.
- Reliable: Rocky Mountain Oilfield Testing Center has established that we have a better detection rate than any other pipeline monitoring service available.

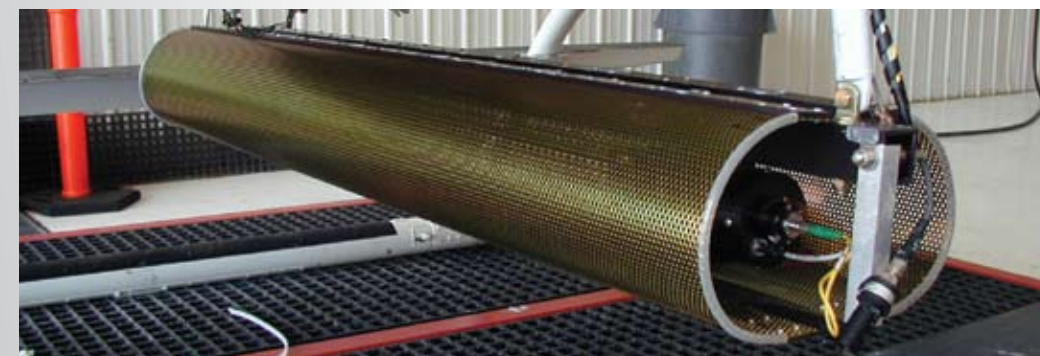


Image of a Boreal Laser attached to the bottom of our Bell JetRanger.