Leak Surveys Inc.
Pipeline Leak Detection

Leak Detection for the 21st Century

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History

- Over 12 years of R&D
- 5 years of actual field experience
- 5000 hrs logged survey hours
- 2008 completed first international pipeline survey
Why Fly?

- Proven method of leak detection
- No incidents – excellent safety record
- All pilots and camera technicians are OQC
- More economical than traditional methods
- Allows you to find problem areas faster
- Allows you to better utilize manpower
- Safer in that it eliminates unnecessary employee exposure to rough terrain
- Reduces product loss, increases profits
Equipment

- Robinson R44 helicopters mounted with IR camera
- Real time image (the camera technician actually sees the leak as it is occurring)
-Leaks are recorded to a digital hard drive
- GPS tracking of gathering system
  - GPS Overlay
- Continuing R & D
Applications

- Transmission Lines
  - Quarterly aerial encroachment and leak surveys
  - Semi Annual leak surveys
  - Integrity Surveys
  - Class Counts
- Gathering lines
  - Master service agreements with several customers to fly specified systems within their operations
- Barge Industry
  - Ship channels, inter-coastal waterways, mooring, loading and unloading
Survey Time!

- What we actually do.
  - Morning safety pre-flight and fueling
  - Contact local and federal authorities of our survey intentions
  - Travel to start point
  - Survey pipelines using DeLorme software
  - Log leaks and record
  - Notify company contact of major leak sources and/or safety issues as they are located
  - Compile data into report back at LSI hdqtrs
Awards

- L.S.I. received the 2007 TCEQ’s Environmental Excellence Award for Innovative Technology
- L.S.I. received in 2007 the E.P.A.’s Clean Air Excellence Award
What does a leak look like?
Leaks Cont.
Customer Comments

- “When Leak Surveys Inc. flies our pipelines, we make money!”
- “We get so much more out of the survey than just leak detection!”
- “Our operations are so much more efficient since we started using Leak Surveys Inc.”