

Directed Inspection and Maintenance and Optical Imaging

Lessons Learned
from Natural Gas STAR

Producers and Processors
Technology Transfer Workshop

New Mexico Oil and Gas Association and
EPA's Natural Gas STAR Program
Farmington, NM
February 21, 2006



DI&M by Leak Imaging

- 💧 Real-time visual image of gas leaks
 - 💧 Quicker identification & repair of leaks
 - 💧 Screen hundreds of components an hour
 - 💧 Screen inaccessible areas simply by viewing them
 - 💧 Aerial surveillance of flow lines
- 💧 Most very large leaks (> 3cf/hr) clearly seen
- 💧 Man-portable
- 💧 Require battery or power cord



Leak Surveys, Inc.



Infrared Leak Detection

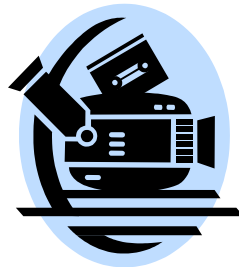
- ⦿ The following companies have helped Natural Gas STAR partners reduce methane emissions with remote leak imaging
 - ⦿ **FLIR Systems**
 - ⦿ <http://www.flir.com/>
 - ⦿ **ITT Industries – ANGEL Service**
 - ⦿ <http://www.ssd.itt.com/angel/>
 - ⦿ **Leak Surveys Inc.**
 - ⦿ <http://www.leaksurveysinc.com/>
- ⦿ The following companies have helped Natural Gas STAR partners reduce methane emissions with remote leak detection
 - ⦿ **Heath Consultants**
 - ⦿ <http://www.heathus.com/>

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Infrared Gas Imaging

- ⦿ Video recording of fugitive leak found by infrared camera



- ⦿ More video available from FLIR Systems:
www.flirthermography.com/smartLDAR

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