Aerial Gas Detection
“Ancillary” Benefits

John Cordaway
El Paso Pipeline Group
Field Validation Results – Body bleed on a valve, valve repairman was dispatched.
ITT Leak Survey Data

Visible Light Video allows for ROW Inspection.
Aerial Technology Providers

- FLIR
- Lasen
- Aviation Technology Services
- ITT
- Leak Surveys Inc.
- Apogee Scientific

Question - Are they providers of “Just” aerial leak detection information?
Ancillary Benefits

- ROW Clearance
- Exposed Pipe
- Damage Assessments
- Augment ROW Patrols
  - Access Mountain Areas
- Incorporate w/ GIS
Evolution of Gas Leak Survey Technology

**Flame Ionization Spectroscopy**
- Hand-held device
- Speed – 1 mph
- Need to come in contact with the plume
- Terrain and property issues

**Aerial Gas Detection**
- Gas speciation and sensitivity
- Speed – 60 to 100+ mph
- Productive – 100’s of miles of coverage a day.
- Practically no terrain or property issues
- Visible Light Footage with Gas Detection

**Pass-through Optical Sensors**
- Truck mounted sensor
- Speed – 15 mph
- Need to come in contact with the plume
- Terrain and property issues
El Paso Pipeline Group
Structures intended for human occupancy added
1320 Foot Corridor and Pipeline Classification Calculated
Aerial Gas Detection or Aerial Data?

▶ Not just a Gas Detection Tool
▶ Compliance Tool?
  ➔ Enhance ROW Surveillance
  ➔ HC, HCA tracking
▶ Communication of Fugitive Sources Tool
  ➔ Heightens awareness
  ➔ Video worth a 1000 words
▶ GHG & Public Relations Tool
Final Point

Consider means to use the flight to benefit other departments or efforts.