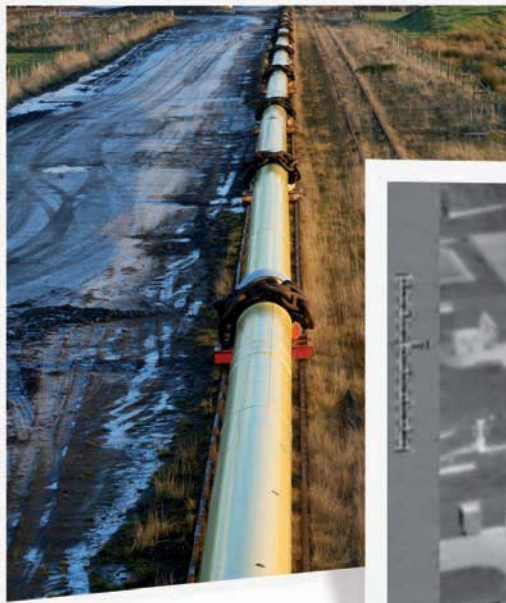


## Pipeline Monitoring Corridor Mapping & Leak Detection

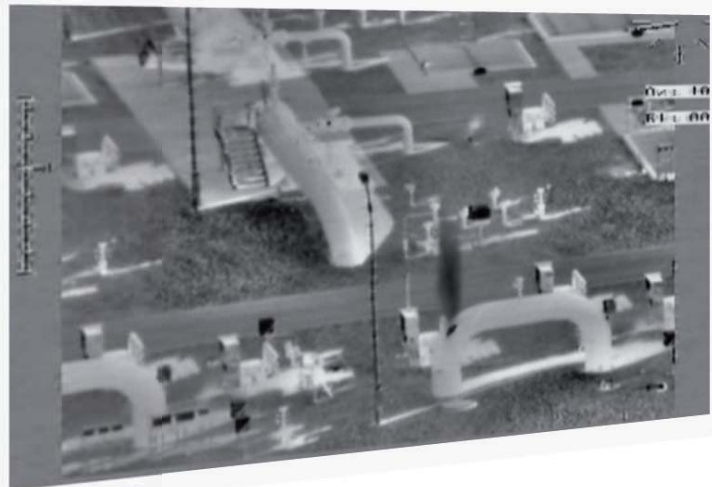
By their very nature, pipelines are extremely difficult to monitor and access due to the large geographic area they occupy. Therefore, monitoring and inspecting pipelines and their corridors from the air is the most efficient, economical, safe and accurate method. Airborne Technologies provides comprehensive pipeline monitoring and inspection services from the air.

Our dedicated and purpose-built aircraft are particularly suitable for such operations because of their low operating costs and their thirteen hour plus endurance capability. Furthermore, these fixed wing aircraft are designed specifically to be exceptionally quiet and visually concealed for maximum discretion and unobtrusive operation, even in sensitive areas.

These services are now available from Airborne Technologies as a comprehensive, use-based, services package.



Overground pipeline



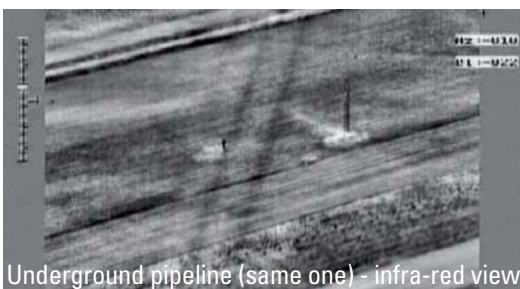
Compressor station - gas leak



## Proactive and regular pipeline inspection and monitoring is a cost-effective preventive measure

### Optimized approach

- Recurring pipeline surveillance flights using unassisted visual observation.
- Supplemented observation using gyro-stabilized thermal imaging and sensing for day and night detection of unauthorized activity.
- Early stage leak detection using thermal imaging and sensing. Underground leaks detected by temperature differences using thermal sensors.
- All detections are geo-referenced for immediate location and dispatch of remedial actions.
- Specialized gas leak sensors can be integrated with, or used in combination with other sensor arrays.
- Ground station personnel can be provided with situational information via real-time video downlink.



### Service Package Components

- Scheduled and recurring inspection and monitoring
- Day and night surveillance to detect unauthorized activity
- Comprehensive and client-defined observation reporting
- Immediate relaying of information requiring urgent response
- Aircraft, support equipment and crew
- Flight planning and mission management
- Trend monitoring, change detection, intelligence gathering
- Laser scanning of the corridor and creation of digital terrain models (DTM) for planning or detection purposes

