

# Directed Inspection & Maintenance Program Using an Infrared Video Camera

Keith Hubbard, Sam Leger, Alan Gradet Natural Gas STAR's 2009 Annual Implementation Workshop

San Antonio, Texas October 2009

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#### **Defining Our Purpose**

El Paso Corporation provides natural gas and related energy products in a safe, efficient, and dependable manner



#### **New Culture in Place**

the place to work the neighbor to have the company to own



#### **TANKS**





## **East Texas Tank Battery**





#### **East Texas Tank Battery**



#### South Louisiana Tank Battery

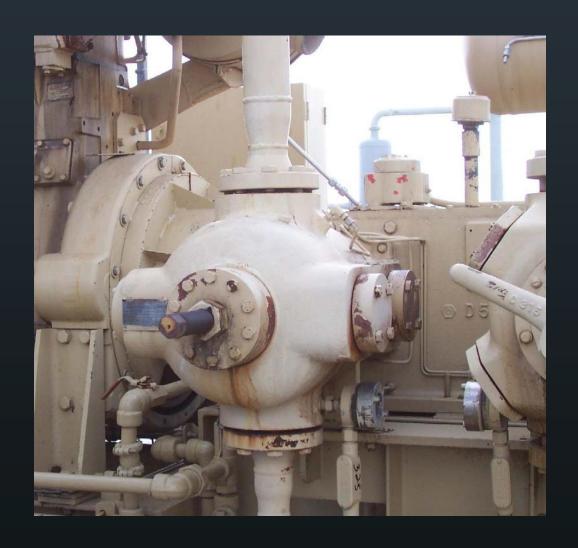


## Compressors





## **Compressor Head**



#### **Compressor Head**



#### **Valve Covers**



#### **Valve Covers**



## **Underground Pipelines**

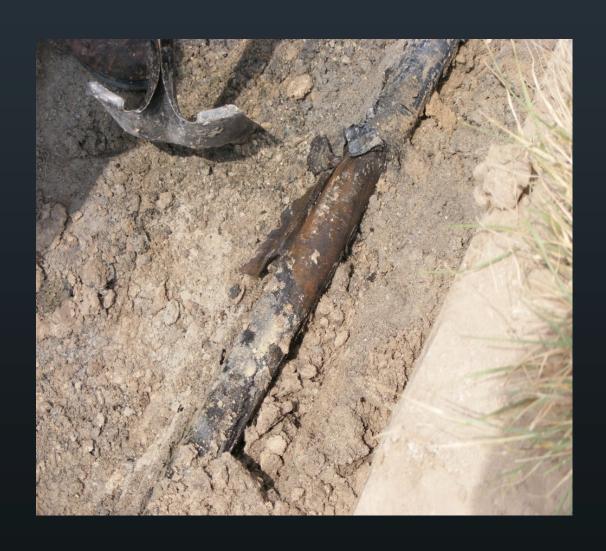
#### **Underground Pipeline**



#### **Underground Pipeline**



## **Underground Pipeline**



## Safety Issues

## Gas Leak Near Light Fixture



## Gas Leak Near Light Fixture



#### **Cracked Nipple Under Compressor**



#### **Cracked Nipple Under Compressor**



#### Miscellaneous

#### **Measuring Rod Packing Vent Lines**





#### **Measuring Rod Packing Vent Lines**



#### **Compressor PSV**



#### **Compressor PSV**



#### Take-Aways

- ▲ Take your time
- Use the thermal imaging capabilities
- Find the right angle
- Notes and digital pictures
- Consider the conditions
- Expect the unexpected



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