

**QUESTAR**<sup>®</sup>  
*Southern Trails  
Pipeline*

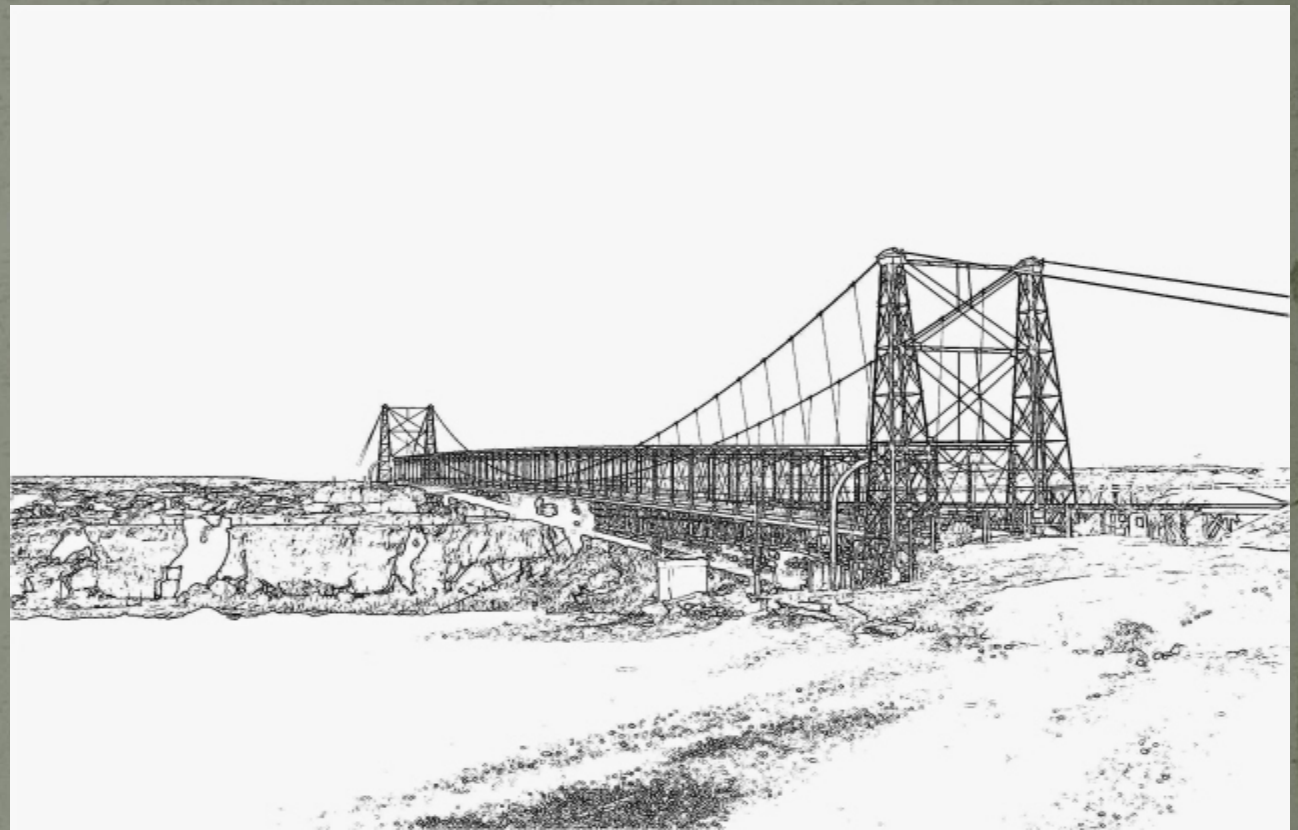
Arizona Corporation  
Commission

Winter Preparedness Meeting

Pipeline Safety Update

Phoenix, AZ

Oct 6, 2012



**Little Colorado River Pipeline Crossing  
Cameron, AZ**

# Pipeline Safety Update

# In line Inspection (ILI) Through AZ as of August-2012



# ILI completed in 2012



# 6 Anomalies Inspected 4 Replaced as a result of 2012 ILI survey



Created by D.Celby - 06/11/2009

# Remaining Assessment Schedule

Continue non critical anomaly investigation from 2012 ILI survey .

42 miles, Mohave to Essex California- Scheduled 2012

- In Line Inspection, Caliper, MFL, XYZ Mapping

# Additional Preventive and Mitigative Measures 2011

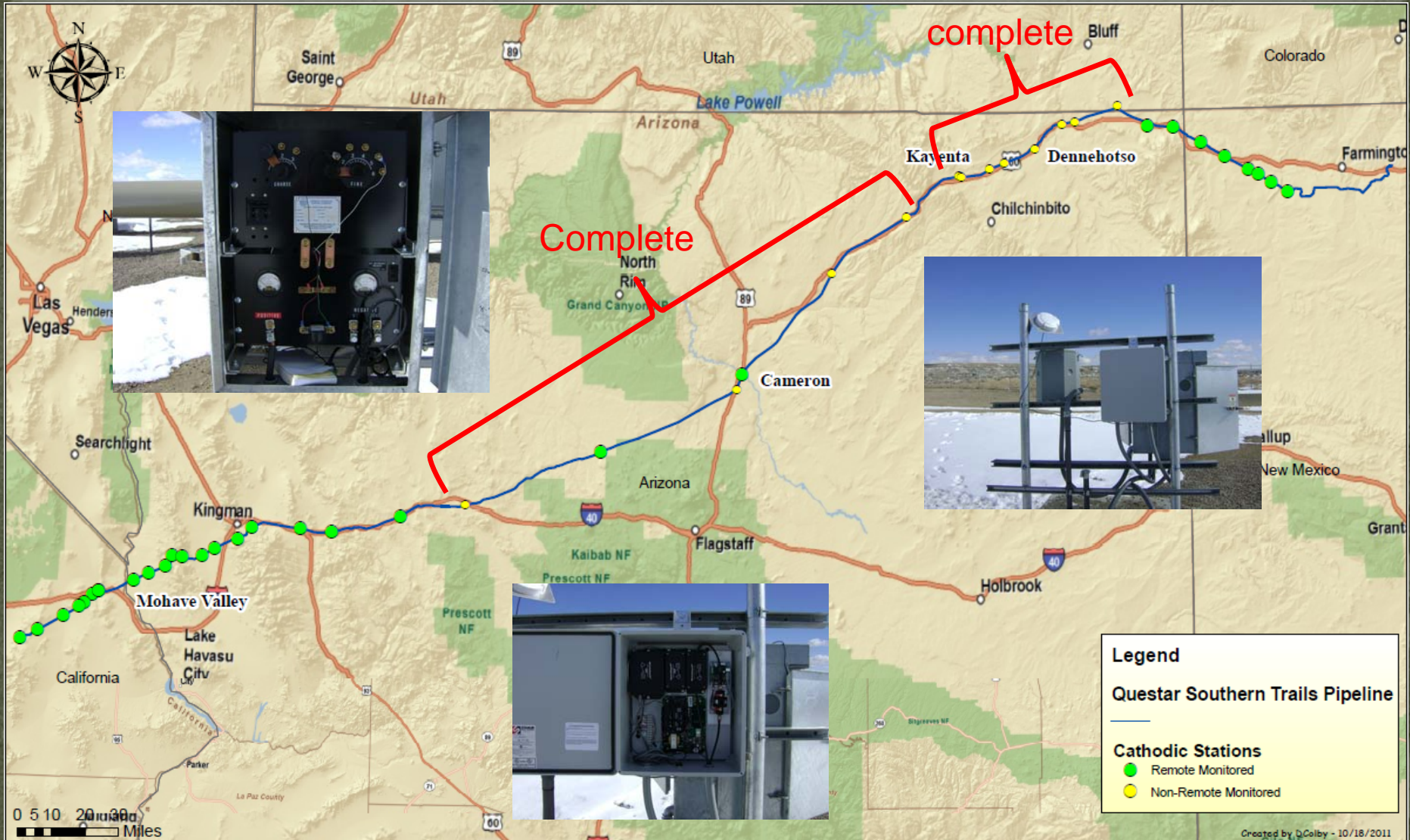
## Cathodic Protection Enhancements

- Installation of Remote Monitors
- 46 cathodic stations in NM, UT, AZ, CA
- Currently in year 2 of a 3 year implementation
- Improved Awareness
- Improved Response Time
- Capability to easily perform on/off surveys
- Facilitates more effective interference testing

## Update:

- Installations of Remote Monitors are now complete.

# Cathodic Protection





2012 Damage Prevention  
Emergency Response  
Public Awareness Meetings  
Coordinated with Arizona Blue Stake and local utility and  
transmission companies



# 2012 Meetings Attended



- Mohave County – Blue Stake Excavator Awareness Meeting, Emergency Responder meeting.
- Kingman AZ – City of Kingman, Emergency Response, & Blue Stake Excavator Awareness Meeting
- Flagstaff AZ – City of Flagstaff, Emergency Response, & Blue Stake Excavator Awareness Meeting
- Prescott AZ – Emergency Response & Blue Stake Excavator awareness meeting
- Window Rock AZ – Navajo Nation Emergency Response & Blue Stake Excavator Awareness Meeting



# Purpose Of Meetings

- Inform public and cities of pipelines in their areas
- Train excavators on Blue Stake laws, excavation safety, and safe marking practices
- Make emergency responders aware of pipelines and high consequence areas in their response zones
- Train emergency responders on leak recognition and response  
Product hazards and characteristics
- Share pipeline emergency numbers and introduce local operators to public and responders
- Define Emergency Planning partners - pipeline operators, police, fire, ambulance hospitals, LEPC, and public officials



# Continued Benefits of Transmission Integrity Management

- Studied, technical basis for Integrity Management
- Questar program is based on In-line Inspection
  - ✓ “Smart pigging” at 7 year intervals
- Adoption of risk-reducing additional P&M measures
  - ✓ Remote monitoring and control of cathodic protection
- Provides foundation for incident avoidance through public, excavator and emergency responder communication.
- Helps maintain system reliability and safety

Questions?

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