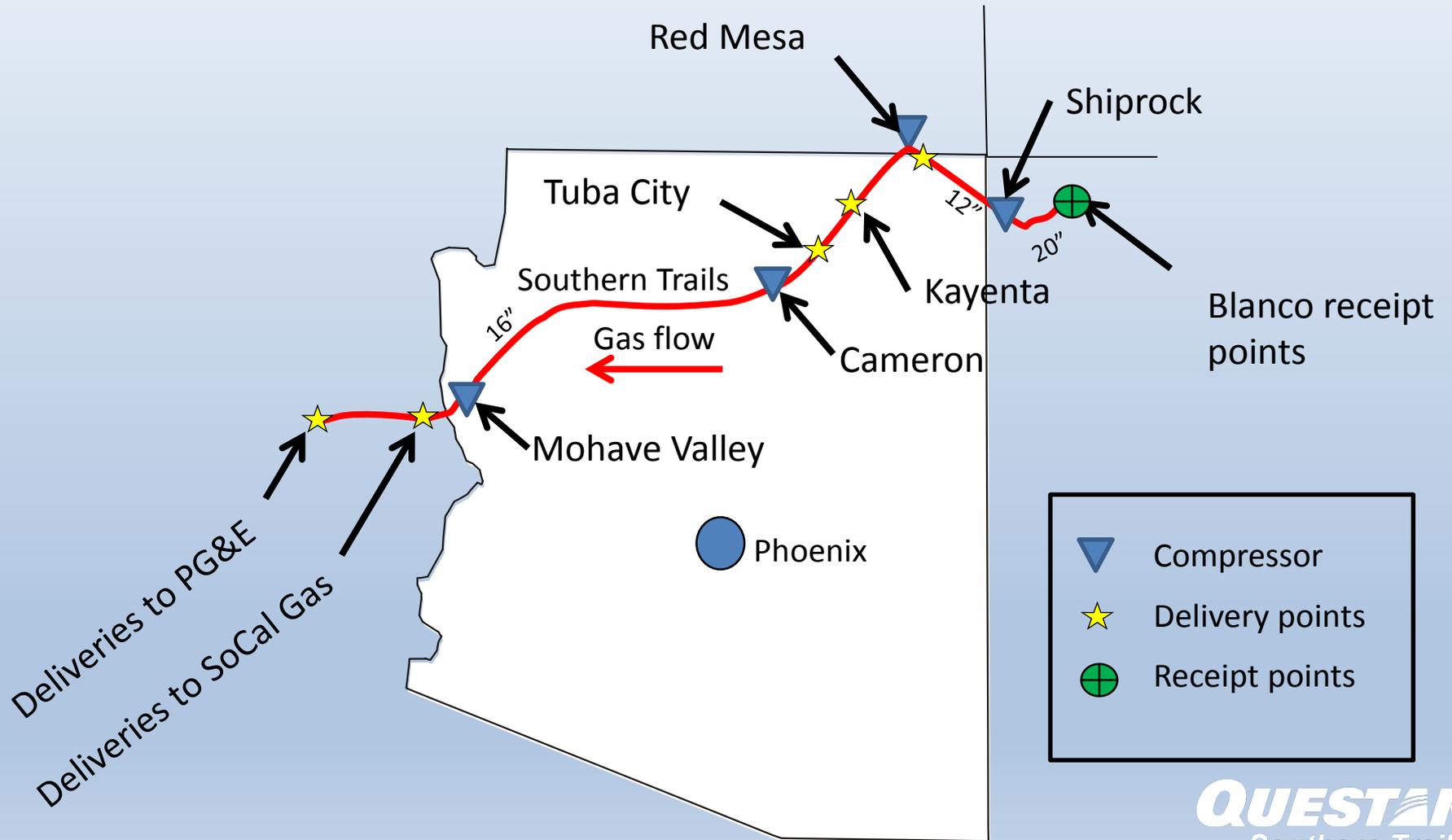


ARIZONA CORPORATION COMMISSION
WINTER PREPAREDNESS MEETING
OCTOBER 18, 2016

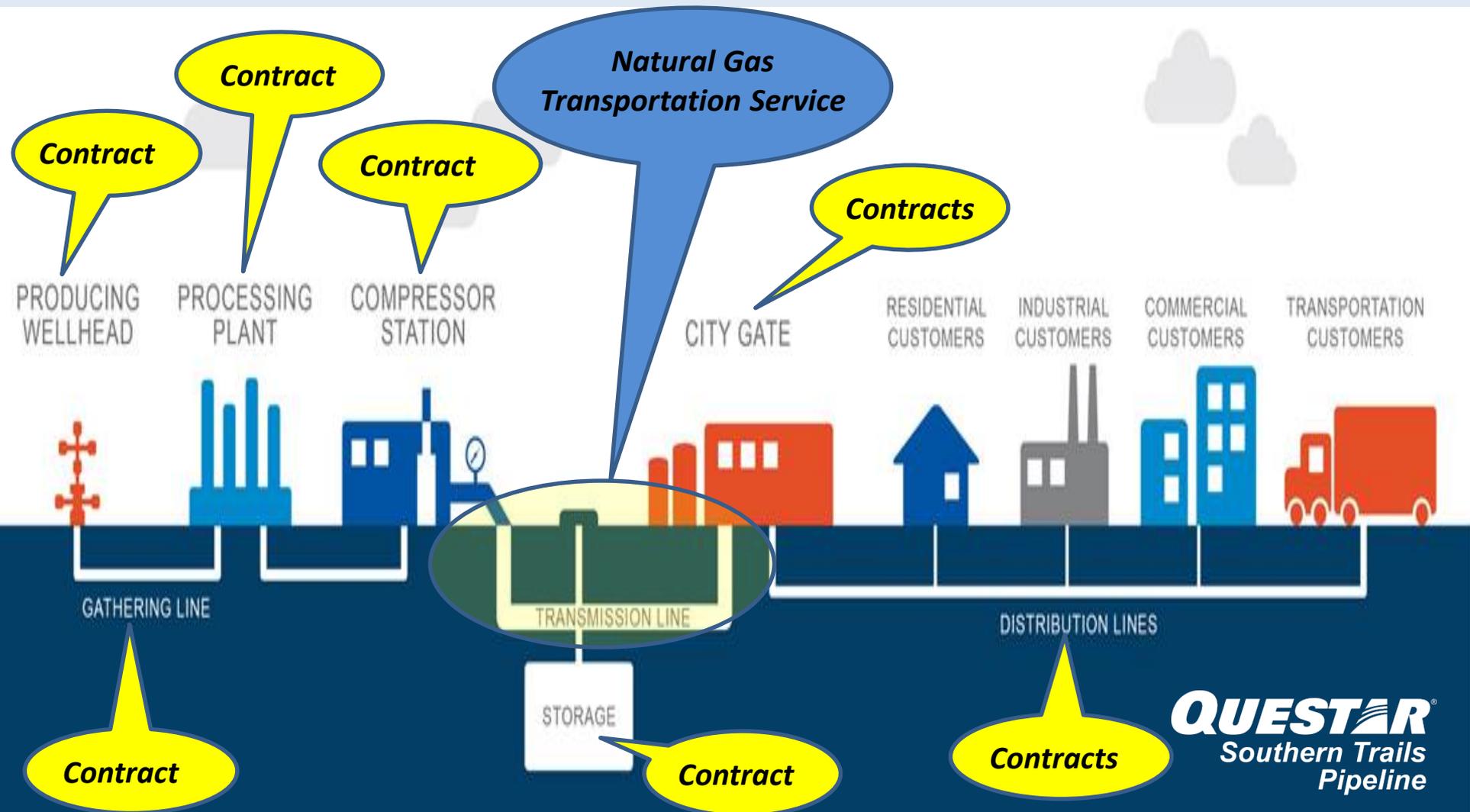


Questar Southern Trails Pipeline Company

Southern Trails Primary Facilities



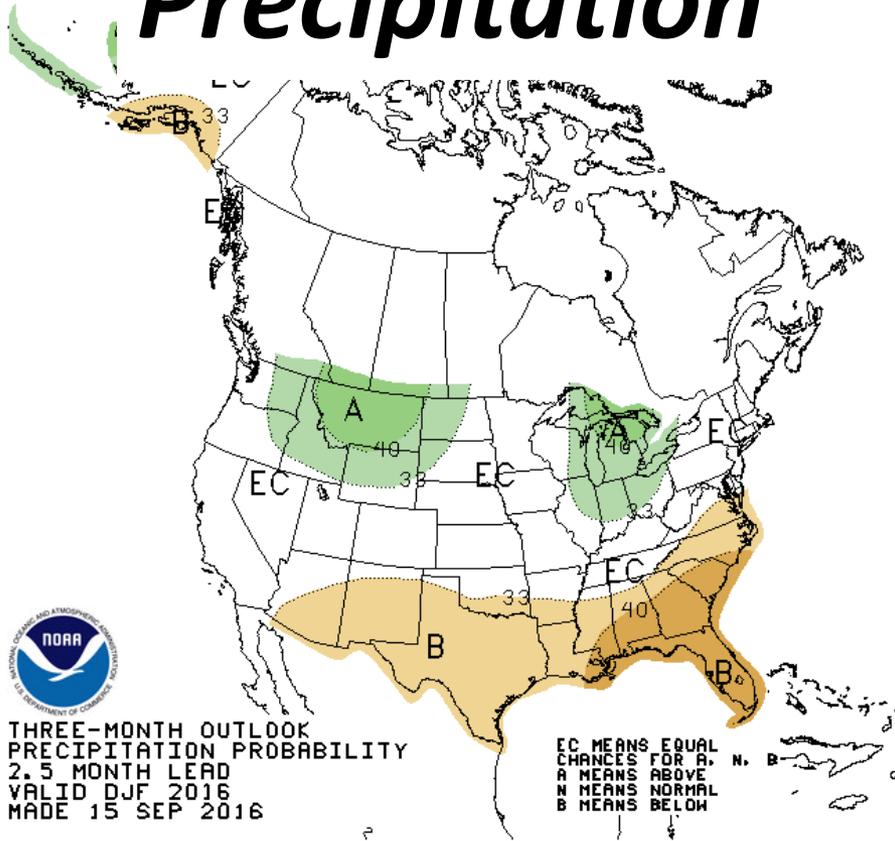
Natural Gas Chain



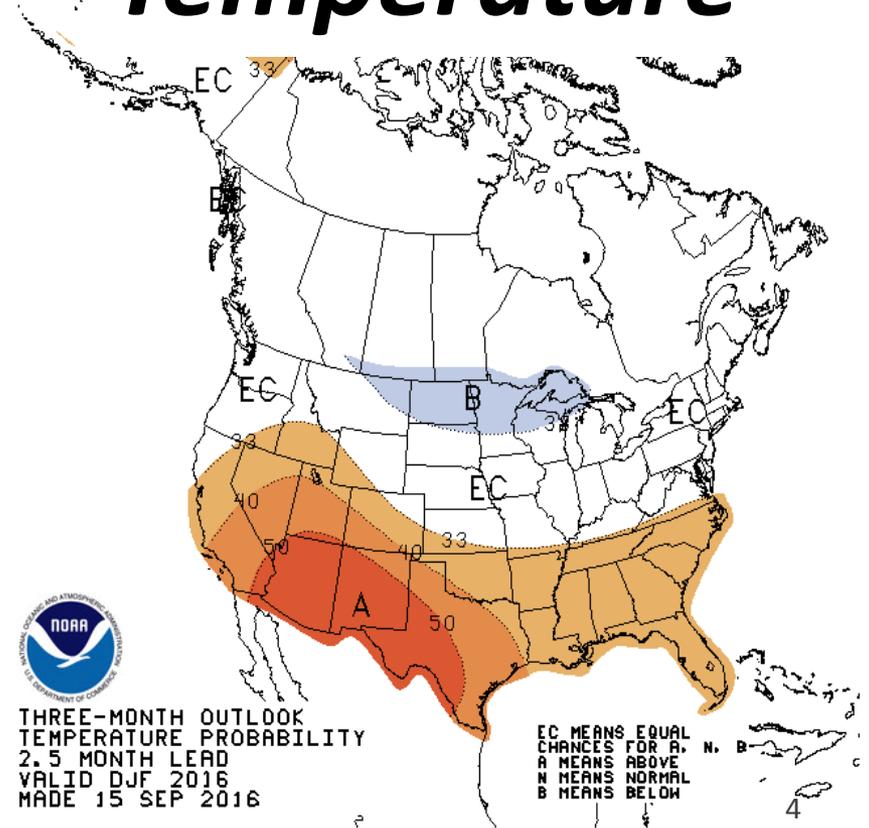


NOAA 2016-2017 Winter Weather Forecast December, January and February

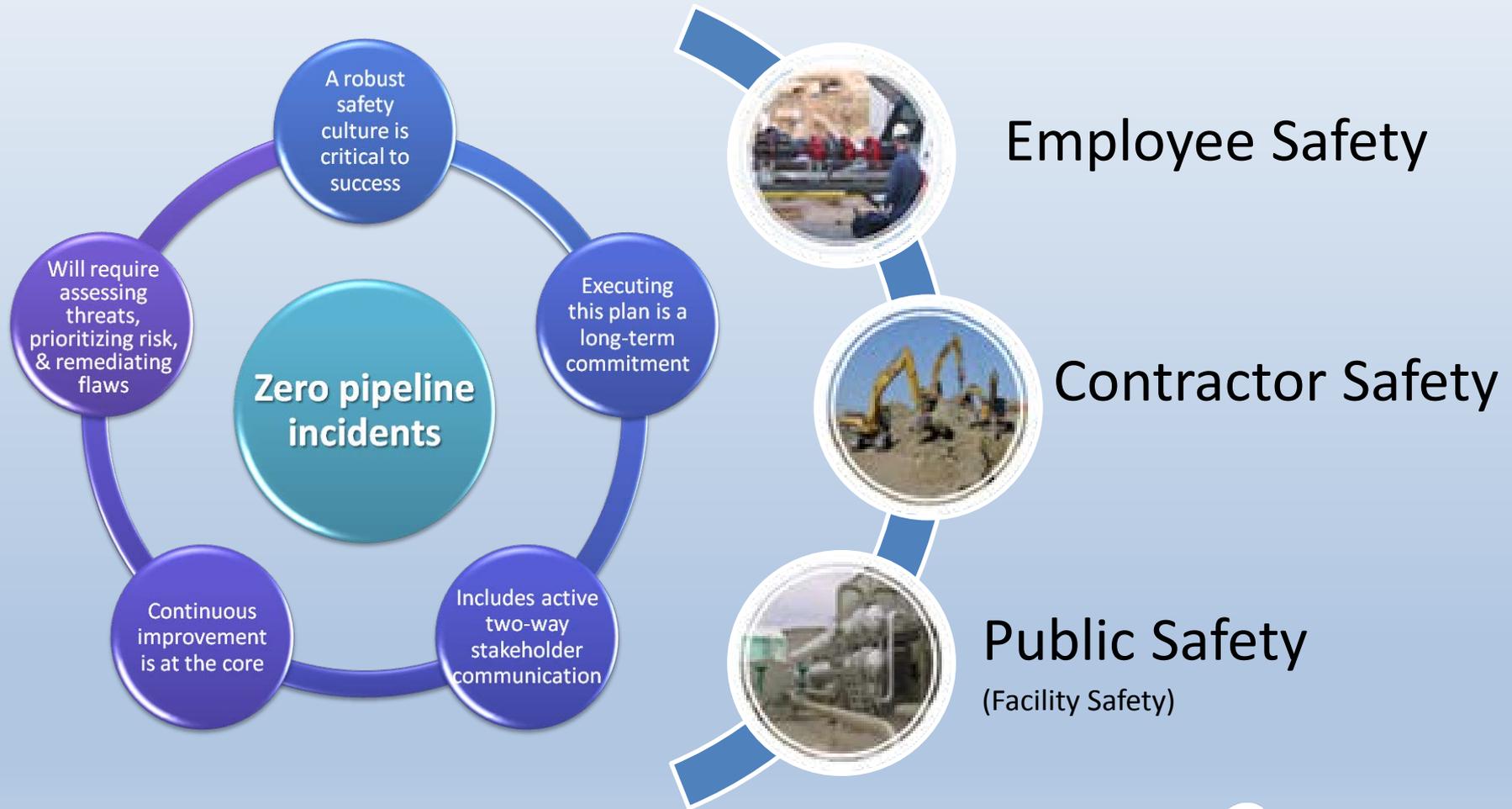
Precipitation



Temperature



Aspects of Safety Culture

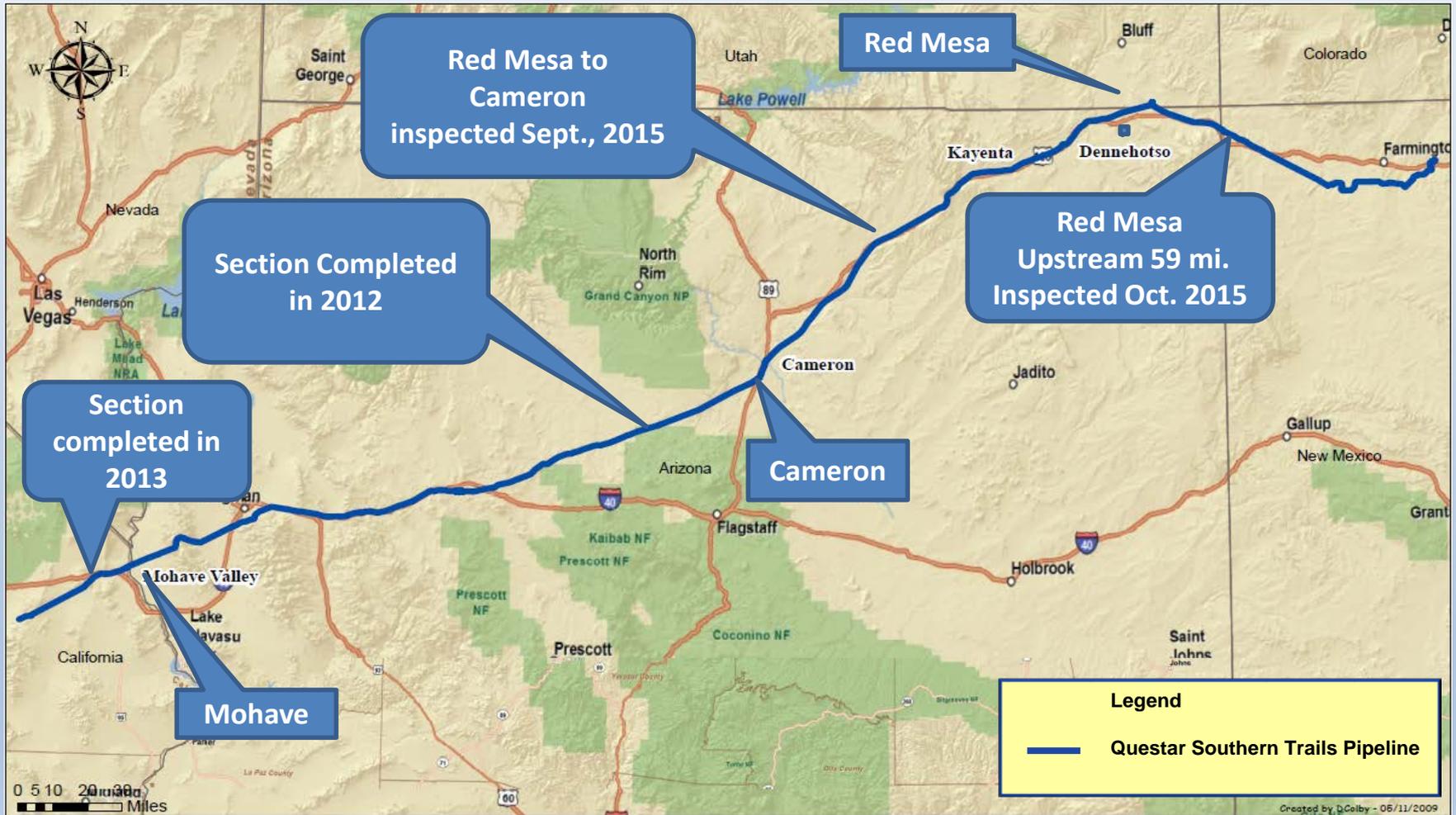


Pipeline Safety Update

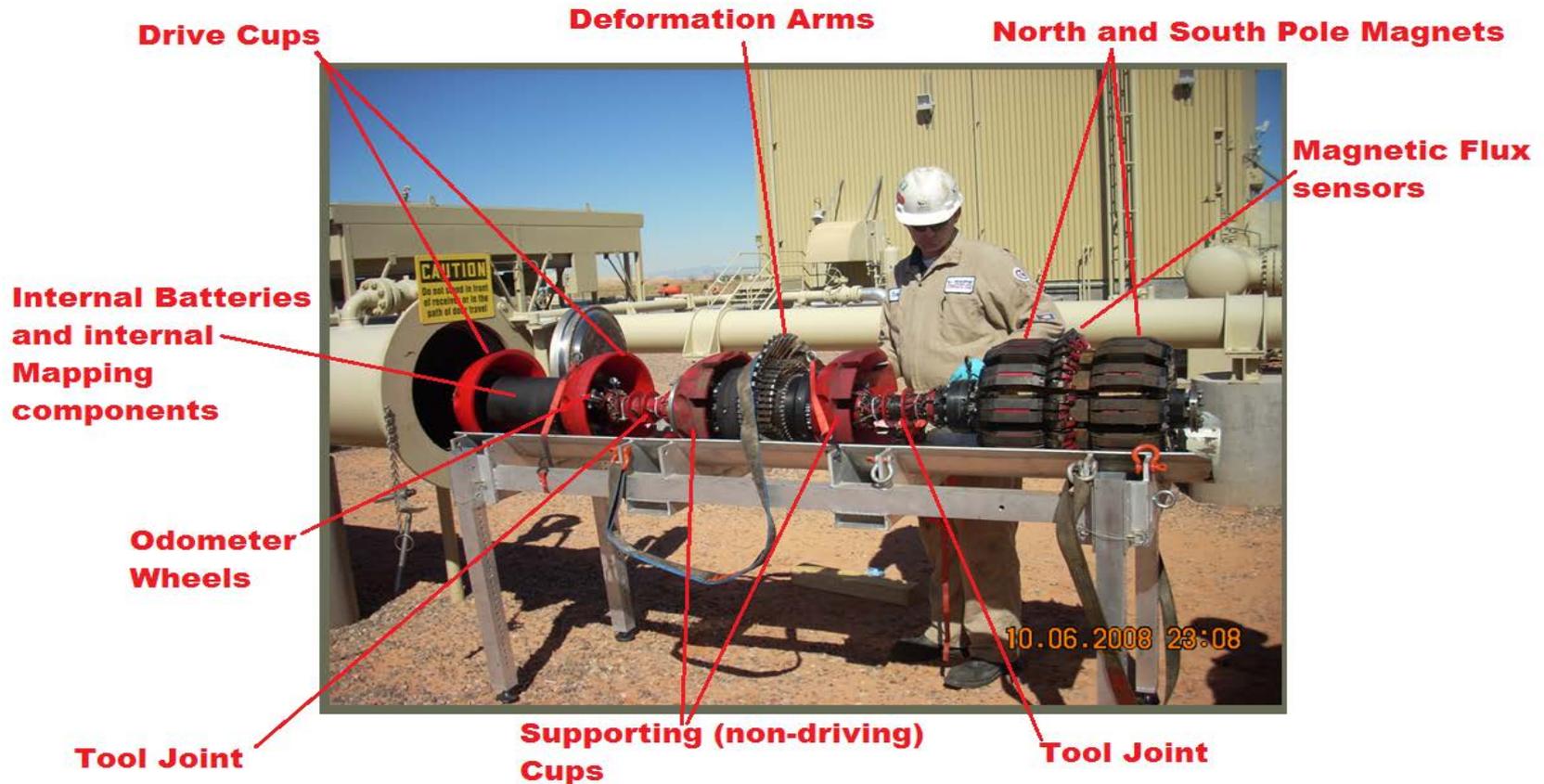
- ✓ In-Line Inspections: All of pipe in AZ has been inline inspected and repaired.
- ✓ 2016 Arizona Pipeline Safety meetings
 - Excavators
 - Emergency Responders & Public Officials
 - Land Owners/Public



In-Line Inspection



Preparing to Launch an ILI Tool (a.k.a. "Smart Pig")



New Signs Installed

Nationwide, a primary cause of pipeline emergencies is third-party hits.

To assist our damage-prevention efforts we posted additional signs on gradable dirt roads that cross our pipeline.

These highly visible signs help road crews and equipment operators know our pipeline is in the road right-of-way.

These signs are in addition to our traditional pipeline marker signage.



Emergency Training Drills

- Questar operations employees participate in emergency-training drills throughout the year.
 - These table-top drills can be:
 - **Internal**, with fellow employees and management, or
 - **External**, with emergency responders and public officials usually through local emergency-planning councils.



2016 Public Awareness Meetings

Damage Prevention, Emergency Response & Public Awareness Meetings:
Coordinated with Arizona 811, local utilities, transmission companies and
the Arizona Corporation Commission



Meeting Purposes

- ✓ Inform the public and communities of pipelines in vicinity & their locations
- ✓ Train excavators on Arizona 811 laws, excavation safety, and safe digging practices
- ✓ Make emergency responders and public officials aware of pipelines and high-consequence areas (HCAs) in their jurisdictions
- ✓ Train emergency responders on pipeline emergency and response
- ✓ Review product hazards and characteristics
- ✓ Share pipeline emergency numbers and introduce local pipeline operators to public and responders
- ✓ Define emergency-planning partners -- pipeline operators, police, fire, ambulance, hospitals, LEPC, and public officials



2016 Meeting Participation

- ✓ Mohave County – Arizona 811 Excavator Awareness Meeting, Emergency Responder Meeting
- ✓ Kingman, AZ – Emergency Response & Arizona 811 Excavator Awareness Meeting
- ✓ Flagstaff, AZ – Emergency Response & Arizona 811 Excavator Awareness Meeting
- ✓ Lake Havasu, AZ – Emergency Response & Arizona 811 Excavator Awareness Meeting
- ✓ Prescott, AZ – Emergency Response & Arizona 811 Excavator Awareness Meeting
- ✓ Window Rock, AZ – Navajo Nation Emergency Response & Excavator Awareness Meeting



Safety Benefits

Transmission Integrity Mgmt. & Public Awareness

- ✓ Thorough, up-to-date analysis of pipeline integrity
- ✓ Continue “smart pigging” at 7-year intervals (HCA’s)
- ✓ Develop baseline knowledge & track history of known pipeline anomalies
- ✓ Real-time remote monitoring and control of cathodic protection
- ✓ Provides foundation for incident avoidance through public, excavator, public official and emergency responder communications
- ✓ Give knowledge to local communities of pipelines
- ✓ In summary, this all helps maintain system reliability and safety of our pipeline through the state of Arizona



Questions?

