



**Transwestern Pipeline Company**  
**Pipeline Safety Update**  
**Arizona Corporation Commission**  
**November 1-2, 2011**

# Transwestern Pipeline Operations



## – Pigging

- TW AZ Mainline Pipeline and Phoenix Lateral Laterals are piggable
- AZ Mainline (HCA and non HCA) has been smart pigged
- Phoenix line has had cleaning pig runs, scheduled for smart pigging in **2015**

## – Automation

- Gas control center operation 24/7
- All TW Arizona compressor stations are automated
- All block valves have automatic line-break controls. Phoenix Lateral block valves can be closed remotely.
- Threatscan vibration monitors in strategic locations
- Back-up computer servers in the event of telecommunications problems

## – Pressure Records

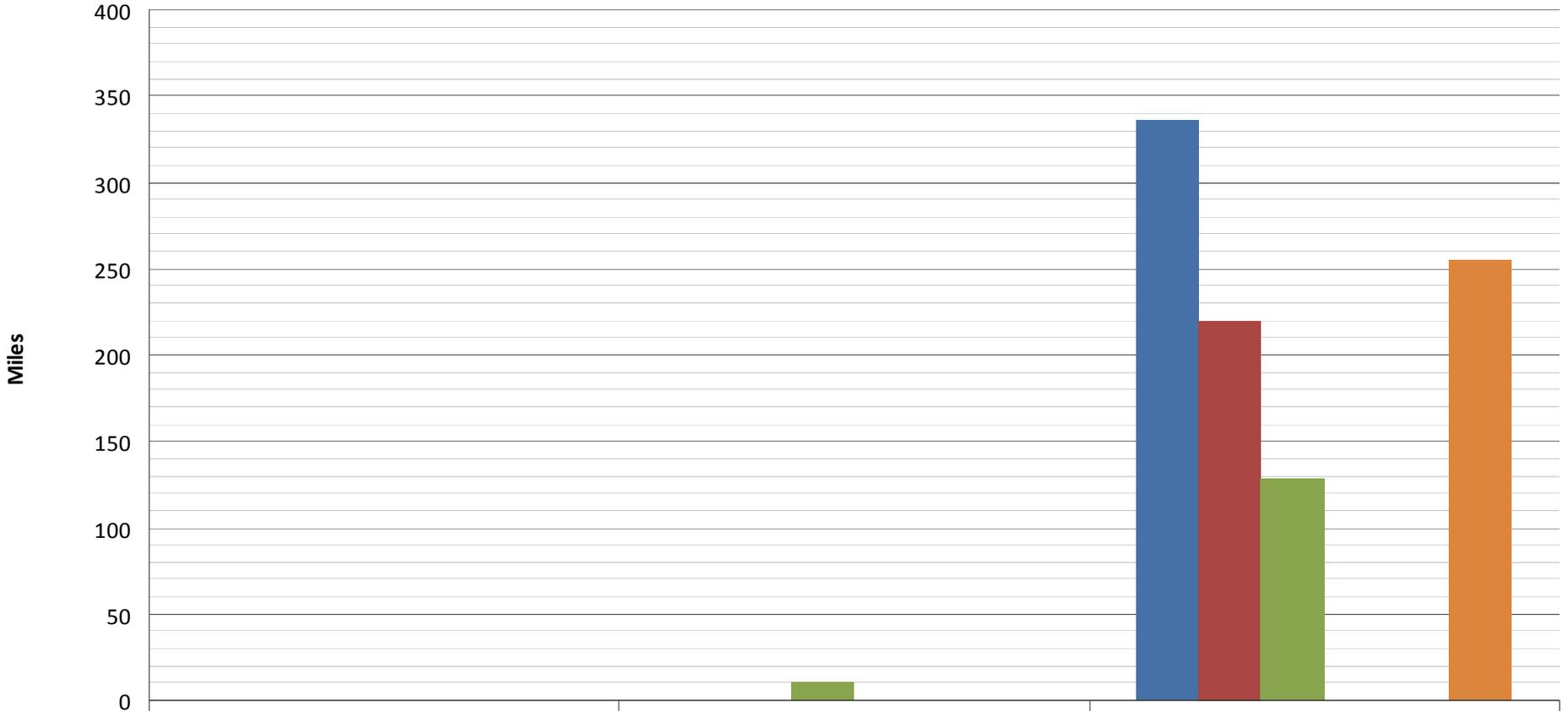
- TW MAOP at 1008 psig
- Phoenix line hydro tested before it was placed in service

# Pipeline Integrity Performance Indicators



• <b>Total system miles (Arizona)</b>	<b>949.11</b>
• <b>Total HCA miles required to be assessed</b>	<b>19.31</b>
• <b>Miles assessed in excess of IMP requirements</b>	<b>920.8</b>
• <b>Anomalies found requiring repair or mitigation</b>	<b>None</b>
• <b>Anomalies remediated which may have resulted in rupture</b>	<b>None</b>
• <b>Anomalies remediated which may have resulted in leaks</b>	<b>None</b>
• <b>Number of IMP changes requested by PHMSA</b>	<b>None</b>
• <b>Jurisdictional reportable incidents in IMP areas</b>	<b>None</b>
• <b>Actions completed that impact safety</b>	<b>None</b>
• <b>Unscheduled outages during performance of IMP</b>	<b>None</b>
• <b>Scheduled outages exceeding the plan duration</b>	<b>None</b>
• <b>System age: 1960-2009 (Phoenix Lateral Built 2009, 255 Miles)</b>	

# Age and Miles of Pipe in Arizona



	Diameter <= 06"	Diameter > 06" to 20"	Diameter 24" to 42"
■ 1960		0.007954545	335.7034091
■ 1969		0.002840909	219.6833333
■ 1992		10.52035985	128.1283144
■ 1994	0.029356061		
■ 1995	0.007007576	0.02405303	
■ 2009			255

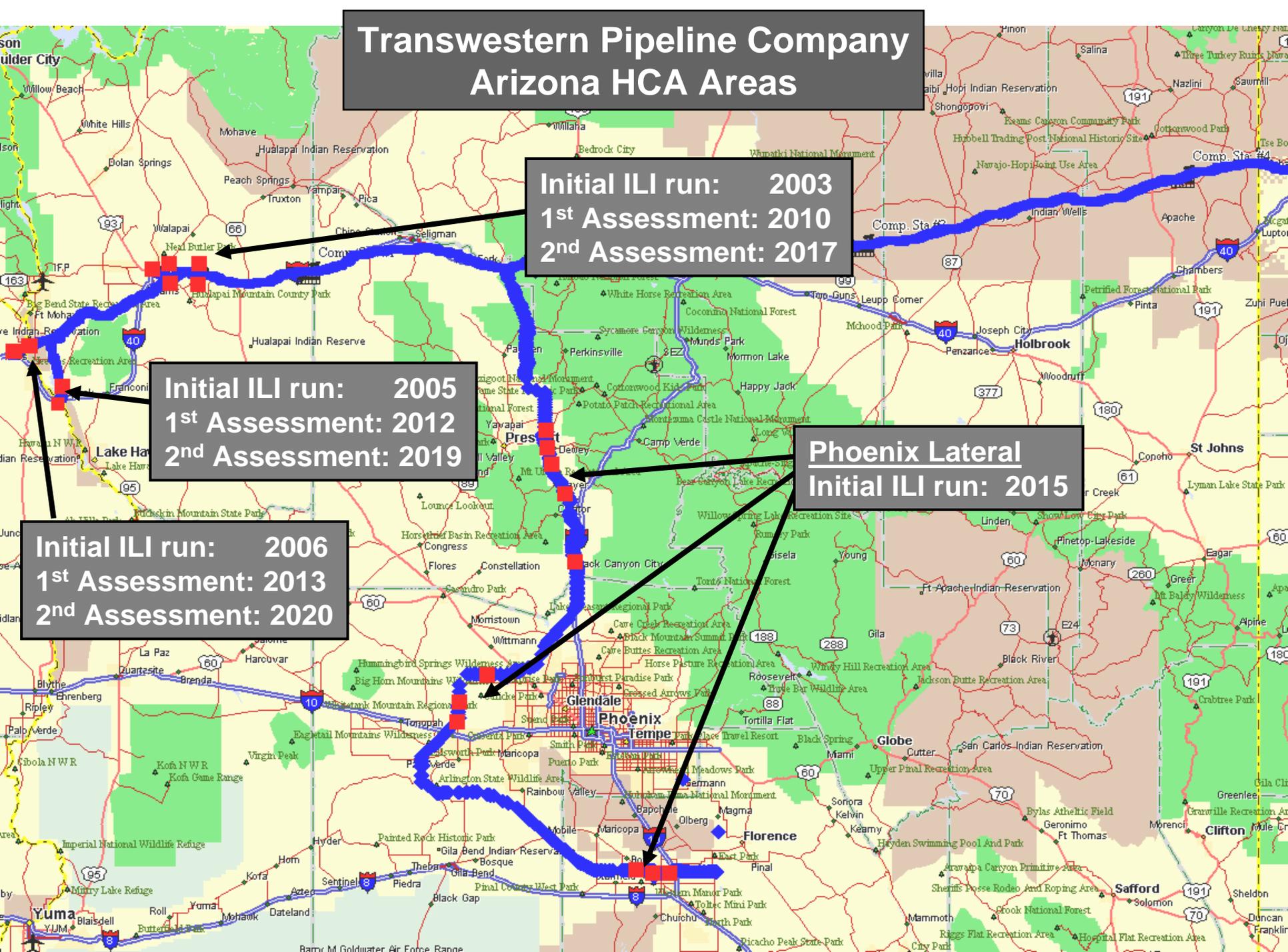
# Transwestern Pipeline Company Arizona HCA Areas

**Initial ILI run: 2003**  
**1st Assessment: 2010**  
**2nd Assessment: 2017**

**Initial ILI run: 2005**  
**1st Assessment: 2012**  
**2nd Assessment: 2019**

**Initial ILI run: 2006**  
**1st Assessment: 2013**  
**2nd Assessment: 2020**

**Phoenix Lateral**  
**Initial ILI run: 2015**



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