

Field Data Collection
(2009 Standard Inspection)

Company: Williams Gas Pipeline - West

Unit: Battle Ground District

Pipe-to-Soil Potential Readings, Rectifiers and Others

Date	Location	Pipe (Volts) Power On	Casing (Volts)	Comments
7/22/2009	Chehalis Compressor Station (MP 1289.38)			The compressor station was inspected. A-Plant fire eyes FD-005 & FD-007 were tested and were fine. A-Plant gas detectors HG-001 & HG-002 were tested and were fine (alarm at 20% LEL, and ESD at 40% LEL). Rectifier #1018 DC outputs: 14.15 V; 3.9 A.
	Pulsation dampener	-1.423		
	30" Discharge line	-1.327		
	Inlet fuel line to unit 1.	-1.023		
7/22/2009	Castle Rock Meter Station (MP 1270.91) 2" outlet pipe to Cascade Natural Gas (CNG)	-0.992		The meter station was inspected. The insulating flange with CNG was not shorted.
7/22/2009	South Longview Meter Station (MP 1258.4) 12" outlet line to CNG	-1.372		The meter station was inspected. Rectifier # 1120 DC outputs: 20.79 V; 4.3 A. The insulating flange with CNG was not shorted.
7/22/2009	Fish Pond Road at MP 1257.38	-1.282		
7/22/2009	Mainline valve (MLV) station 16L-2A at MP 1256	-1.168		The MLV was partially operated by Rudger Barnes and was acceptable.

7/22/2009	Kalama River span at MP 1251.	-1.284		The exposed pipe over the river was repainted in 2008 and painting condition appeared to be good.
7/22/2009	Washougal Compressor Station			The compressor station was inspected.
	CP test site #6	-1.462		NW corner of Unit 1 fire eye was tested and was fine. B-Plant south gas detector was tested and was fine.
	CP test site #14	-1.715		Rectifier #180T DC outputs: 14.03 V; 0.2 A.
	CP test site #92	-1.093		
	CP test site #93	-1.096		
7/23/2009	Mainline valve (MLV) 14-6 at MP 1158.9, east of Willard Compressor Station.			The MLV was partially operated by Ben Kirsten and was fine. The bypass valve was partially operated by Rod Johnson and was fine.
7/23/2009	Appleton Road crossing	-1.371	-0.216	The casing was not shorted.
				Rectifier #1033 DC outputs: 20.64 V; 2.0 A.
7/23/2009	Willard Compressor Station MP 1175.14			The compressor station was inspected.
	CP test site #16 (Unit 2 relief)	-0.773		Rectifier #1563 DC outputs: 23.20 V; 3 A.
	CP test site #17 (Unit1 relief)	-0.816		Met 100mv shift requirement.
	CP test site #51 (4" fuel gas line at NE corner of B-plant)	-0.865		Met 100mv shift requirement.
	26" pig launcher to Washougal	-1.373		
	26" pig receiver from Goldendale	-1.566		
7/23/2009	Carson Meter Station (MP			

	1184.95) MLV 14-8 2" outlet line to Northwest Natural Gas (NWN)	-1.330 -1.446		The MLV was partially operated and was fine. The insulting flange to NWN was not shorted.
7/23/2009	Stevenson #2 Meter Station (MP 1189.51) 2" outlet line to Avista	 -1.992		Rectifier #443 DC outputs: 22.47 V; 5.0 A. The insulting flange to Avista was not shorted.