Field Data Collection
(2010 Standard Inspection)

Company: Yellowstone Pipe Line Company

Unit: Spokane and Moses Lake

Pipe/Structure-to-Soil potential readings and other items.

Date	Location	Pipe/ Structure to soil (Volts)	Casing (Volts)	Comments
10/13/2010	Spokane (Parkwater) Terminal Breakout tanks T-70, T-71, T-72, T-73, T-74 trans-mix/out of service. T-75, T-80, & T-85			The operator had turned off the rectifiers at the terminal in coordination with construction work to redesign the meter station. Therefore, no CP potential readings were taken at the terminal. All the tanks inspected appeared to be in good working condition.
10/13/2010	New 10" mainline valve at Idaho border. MP 518	-1.56 1.3 Vac		The valve was closed because of construction work at the terminal meter station.
10/13/2010	10" mainline (from Idaho border) block valve on west side (downstream side) of the Spokane River MP 527.5	-2.22 7.8 Vac		The valve was partially operated by Mike Kuntz and it appeared to be in good working condition.
10/13/2010	10" transfer line block valve (Y10-3) on north side of the Spokane River.			The valve was inspected and remotely operated by Pressure Control.
10/13/2010	Spokane North Terminal 10" block valve Y10-5 to Hillyard Manifold.	-1.755		The valve was partially operated by Mike Kuntz and it appeared to be in good working condition.
10/13/2010	Breakout tank T-103 at North Spokane Terminal	-1.933 (N) -2.370 (E) -1.860 (S) -1.630 (W)		CP readings were acceptable.

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10/13/2010	Breakout tank T-97 at North Spokane Terminal	-1.380 (E) -1.699 (S)		CP readings were acceptable.
10/13/2010	Breakout tank T-101 at North Spokane Terminal	-3.59 (N) -2.12 (E) -2.00 (S) -2.54 (W)		CP readings were acceptable.
10/13/2010	8" main line valve at 65th Street & Regal Street in Spokane ML-540.25	-1.886		This mainline valve is on the 8" main line from Spokane Terminal to Fairchild. It was partially operated by Mike Kuntz. The exposed pipe span at this location was also inspected.
10/13/2010	Highway 195 crossing for 8" mainline from Spokane to Fairchild.	-1.80	-0.484	The readings were acceptable and no shorted casing.
10/13/2010	Spokane-Cheney highway crossing at MP 544	-1.867	-0.186	The readings were acceptable and no shorted casing.
10/13/2010	Geiger Junction at MP 547	-1.85		The reading was taken on the 8" main line and it was acceptable. Since 2005, the 6" lateral was idled.
10/13/2010	Holly Road rectifier #M-2 and road crossing near Geiger Junction.	-3.54	-0.630	Rectifier DC output: 6.25 V; 5.03 A. The casing was not shorted.
10/13/2010	Geiger Delivery Station Rectifier M-1 6" in-bound line from Geiger Junction. 3" out-bound line to Spokane International Airport.	 -1.80 -2.16		Rectifier DC output: 29.7 V; 2.2 A. Both CP readings were acceptable.

Date	Location	Pipe/ Structure to soil (Volts)	Casing (Volts)	Comments
10/13/2010	Fairchild Station			
	Station rectifier #M-3			Rectifier DC output: 19.66 V; 18.12 A to tanks and pipeline.
				CP reading was acceptable.
	8" incoming line from Spokane	-1.46		
				CP reading was acceptable.
	6"outgoing line to Moses Lake	-1.18		
	Breakout Tank #1	Tank CP on outer edge of chime -0.962 (N) -0.927 (W)		The anodes are nearby.
				The anodes are nearby.
	Breakout Tank #2	-0.600 (E) -1.020 (W)		
10/14/2010	Edwall Rectifier #M-4 at MP 570 (6" Moses Lake line)			Rectifier DC output: 13.89 V; 4.96 A
	Road crossing	-1.964	-0.774	CP readings were acceptable. No shorted casing.
10/14/2010	Gulke Road at MP 580			
	Rectifier #M-4A			Rectifier DC output: 16.76 V; 3.4 A
	Road crossing	-3.27	-0.204	CP readings were acceptable. No shorted casing.
10/14/2010	Highway 28 at road crossing. MP 592	-1.17	-0.51	CP readings were acceptable. No shorted casing. Note: Avista's natural gas line crosses the 6" Fairchild-Moses Lake line at this location.
	Pipeline Crossings with: Avista Utilities	-1.34		

Date	Location	Pipe/ Structure to soil (Volts)	Casing (Volts)	Comments
10/14/2010	Pipeline Crossings with: Yellowstone Line Chevron Line Yellowstone Line Williams	 -2.70 -1.30 -2.28 -1.71		
10/14/2010	Odessa 6" mainline block valve at MP 612. Road crossing under Dobson Road	 -1.46	 -0.468	The valve was partially operated by Mike Kuntz. CP readings were acceptable. No shorted casing.
10/14/2010	Road "W" NE, road crossing at MP 630 Rectifier #M-13	-2.26	-0.27	CP readings were acceptable. No shorted casing. Rectifier DC output: 90.2 V; 6.0 A
10/14/2010	East Low Canal at MP 635 Rectifier #M-14 CP test station	 -1.57		 Rectifier DC output: 51.5 V; 19.1 A CP reading was acceptable.
10/14/2010	CP test station at MP 636	-0.842		
10/14/2010	East Low Canal mainline block valve station at MP 638. CP test station	 -2.13		**A new rectifier was installed at this location since the last inspection.** Rectifier DC output: 86.5 V; 4.75 A

Date	Location	Pipe/ Structure to soil (Volts)	Casing (Volts)	Comments
10/14/2010	Moses Lake Mainline block valve ML-644-0 (MP 644)			The mainline block valve was partially operated by Mike Kuntz.
	CP test station at the valve station	-1.71		The CP reading was acceptable.
	CP test station for 6" line at Boeing Junction > > >	-1.70		
	Cascade Natural Gas Pipeline crossing > > > >	-1.25		
	CP test station for 6" line to Grant County Airport>	-1.21		
	Cascade Natural Gas Pipeline crossing > > > >	-0.809		
10/14/2010	Moses Lake Terminal Breakout tank T-28	-0.975 (N) -2.252 (S)		This tank is used as a pressure relief tank and a trans-mix tank. Tank CP readings were acceptable.
	6" incoming line from Fairchild	-3.788		
	6" outgoing line to Grant County Airport	-2.21		CP readings were acceptable.
	Rectifier #M-16			Rectifier DC output: 71.7 V; 11.1 A