<u>Field Data Collection</u> (2009 Standard Inspection)

Company: Kinder Morgan Canada Inc.
Trans Mountain Pipeline (Puget Sound) LLC

Unit: Trans Mountain Pipeline (Puget Sound) LLC

Pipe-to-Soil Potential Readings, Rectifiers and Mainline Valves (MLV)

Date	Location	Pipe (Volts) Power On	Pipe (Volts) Power Off	Casing (Volts)	Comments
9/23/2009	Breakout Tank T-170 at Laurel Station Bottom plate chime				
	East side West side	-1.349 -1.642	N/A N/A	N/A N/A	Potential readings were acceptable.
9/23/2009	Breakout Tank T-180 at Laurel Station Bottom plate chime East side	-1.427	N/A	N/A	Potential readings
9/23/2009	West side Mainline Valve (MLV) MU-14 north of Nooksak River on Sumas to Laurel segment	-1.568	N/A	N/A	were acceptable. The MLV was inspected & partially operated by Rick Axelson and was fine.
	Rectifier R-68 MU-14 valve stem	-1.155			Rectifier DC output: 7.6 V; 1.8A Potential reading was acceptable.
9/23/2009	MLV ML-6 on the Laurel to Ferndale segment next to I-5 Freeway.				The MLV was inspected and was partially operated by Rick Axelson and was fine.
9/23/2009	CP test site 1L-5.647 Next to I-5 Freeway	-1.434	N/A	-0.797	Potential readings were acceptable. Casing was not shorted.
9/23/2009	MLV ML-8 on the Laurel to Ferndale				This MLV with a check valve were inspected. The MLV was not partially operated as it

					requires a confined
					space entry permit.
9/23/2009	Rectifier R-69 next to MLV ML-8				Rectifier DC output: 29 V; 2.2 A
9/23/2009	Ferndale Station				
	Tank rectifier R-87		e "		Rectifier DC output: 33.86 V; 0.1 A
	Pipeline rectifier R-60				Rectifier DC output: 7.58 V; 1.6 A
	CP test site 1L- 11.250	-1.064	N/A	N/A	Potential reading was acceptable.
	Tank T-130 North side of chime	-0.998	N/A	N/A	Potential reading was acceptable.
	West side of chime	-0.911	N/A	N/A	Potential reading was acceptable.
9/24/2009	Anacortes Meter Station				
	16" Incoming line from Burlington	-1.757	N/A	N/A	Potential reading was acceptable.
	12" surge relief line to T-7 in Shell Refinery	-1.849	N/A	N/A	Potential reading was acceptable.
	CP test station 1F- 1B-8.959	-1.395	N/A	-0.765	Potential readings were acceptable. Casing was not shorted.
	Rectifier R-76				Rectifier DC output: 21.08 V; 6.4 A
	Breakout tank T-7 inside Shell Refinery				T-7 was inspected and there were two NOPVs concerning corrosion on chime and inadequate drainage around the
					tank.

9/24/2009	MLV MB-3 downstream of Burlington scraper trap area				The MLV was inspected and was partially operated by Rick Axelson
	CP test site 1B-2.500 Burlington to Anacortes segment	-1.489	N/A	N/A	Potential reading was acceptable.
9/24/2009	Burlington Scraper Trap Station Rectifier R-40				Rectifier DC output: 9.31 V; 3.3 A
	CP test station 1B- 0.045	-1.616	N/A	N/A	Potential reading was acceptable.
9/24/2009	Manley Road CP test sites				
	1A-34.196	-1.208	-0.683	N/A	Most of the instant off potentials did not
	1A-34.059	-1.431	-1.001	N/A	meet the -850 mv criterion. However,
4	1A-33.916	-1.068	-0.590	N/A	they did meet the 100 my shift criterion.
	1A-33.882	-0.892	-0.351	N/A	
	1A-33.813	-1.373	-0.846	N/A	
	1A-33.764	-0.934	-0.446	N/A	