

Field Data Collection
(6/20-21/2012 Standard Inspection)

Company: Olympic Pipe Line Company

Unit: Intrastate Laterals

Pipe-to-Soil Potential Readings and Rectifiers

| Date | Location | Pipe (Volts) Power On | Casing (Volts) | Comments |
|-------------|--|--------------------------------------|---------------------------|---|
| 6/20/2012 | <u>Renton Station</u> 12" pig launcher for Seattle Lateral 12" Sea-Tac launcher Rectifier #190 Rectifier #195 Rectifier # 196 (for breakout tank T- 116) | -3.949 -2.376 | N/A N/A | Rectifier DC output: 9.30 V; 14.64 A Rectifier DC output: 20.14 V; 11.5 A Rectifier DC output: 6.4 V; 2.7 A |
| 6/20/2012 | Seattle Lateral first block valve station north of the Renton Station at MP 1.5 | -1.911 | N/A | This mainline block valve is a manual valve. It was partially operated by Ken Carlton (Central Area Team Leader) with no difficulty. |
| 6/20/2012 | Seattle Lateral Henderson Street block valve station at MP 6 | -2.220 | | This block valve is a MOV with remote control. |
| 6/20/2012 | Seattle Lateral Rectifier #200 at the intersection of S. Trenton Street & MLK Jr. Street S. | N/A | N/A | Rectifier DC output: 7.70 V; 3.05 A. |
| 6/20/2012 | Seattle Lateral block valve station at the intersection of 6 th Street and | -1.738 | N/A | The mainline block valve is a MOV with remote control. It was partially operated by Ken Carlton. The line was down (not delivering products) |

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| | Charleston Street (MP 10). A CP test station is located at this site. | | | during the field inspection. |
| 6/20/2012 | <u>Seattle Lateral Delivery Facilities (DF) at Harbor Island (end of the line).</u> Pig receiver Rectifier #210 (for station) Rectifier #220 (for pipeline) Breakout Tank T-102, south side of the bottom plate. | -1.720 -1.616 | N/A N/A | Rectifier DC output: 17.00 V; 9.3 A. Rectifier DC output: 3.53 V; 1.50 A. The spill containment and impoundment project around the tank was completed in July, 2010. |
| 6/20/2012 | <u>Sea-Tac Lateral</u> Sea-Tac Lateral at MP-1 main line valve north of the Green River | -2.418 | N/A | This MLV is a manual valve and it is in a vault. It requires a confined space entry permit to operate the valve. |
| 6/20/2012 | Sea-Tac Lateral CP test station for carrier pipe and casing under I-5 Freeway | -2.900 | -0.380 | The test lead was relocated after the 2010 inspection as it was broken and not easily accessible. |
| 6/20/2012 | Sea-Tac Lateral at the airport (end of the line) near the 12" pig receiver. Rectifier #250 | -2.658 | N/A | Rectifier DC output: 28.95 V; 0.9 A |
| 6/20/2012 | <u>Tacoma Junction</u> Tacoma Lateral at the Tacoma Junction 8" pig launcher Rectifier #255 for the junction | -2.175 | N/A | Rectifier DC output: 10.98 V; 0.46 A |

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| | Rectifier #260 for the 8" lateral | | | Rectifier DC output: 23.56 V; 4.0 A |
| 6/20/2012 | Tacoma Lateral CP test station at MP-2 | -1.626 | N/A | |
| | Railroad crossing | -1.510 | -0.637 | |
| | The Puyallup River crossing at Lincoln Ave with 10" casing for the 8" pipe. | -1.275 | -0.577 | |
| 6/20/2012 | <u>Tacoma Lateral Delivery Facilities (DF)</u> | | | |
| | Railroad crossing outside the DF | -1.090 | 0.362 | |
| | 8" incoming line to the DF | -1.170 | | |
| | Rectifier #270 | | | Rectifier DC output: 14.31 V; 2.28 A |
| | Rectifier #275 | | | Rectifier DC output: 5.85 V; 14.3 A |
| | Breakout tank T-103 | | | An API 653 In-Service inspection was conducted in July 2011 and the inspector recommended that the operator should consider repairing the narrow cracks on concrete apron. The operator completed the repair within a week after this inspection. |
| 6/21/2012 | <u>Vancouver Junction</u> | | | |
| | CP test station at the junction | -2.670 | N/A | |
| | Rectifier #355 for the junction | | | Rectifier DC output: 5.9 V; 0.32 A |
| | Rectifier #357 for the pipeline | | | Rectifier DC output: 2.9 V; 0.15 A |
| 6/21/2012 | 12" Vancouver lateral at the Lower | -1.982 | -0.484 | The casing was not shorted. |

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| | River Road | | | |
| | Road crossing under the Lower River Road outside of the Port | -1.889 | -0.384 | |
| | Road crossing under port access road | -1.830 | -0.288 | |
| | Railroad crossing inside the port | -2.307 | -0.093 | |
| 6/21/2012 | <u>Vancouver Lateral Delivery Facilities (DF)</u> | | | |
| | Incoming 12" line to the DF | -2.165 | N/A | |
| | Breakout tank T-107 | -1.503 (south side of the tank) | | The potential readings were taken at the edge of the chime (tank bottom plate). An API 653 In-Service inspection was conducted in July 2011 and a recommendation was made by the inspector to repair the seal between the chime and the concrete foundation. The operator has scheduled the repair by the end of 2013. |
| | Rectifier #350 at the DF | | | Rectifier DC output: 61.6 V; 7.25 A |
| 6/21/2012 | <u>Rainier Pump Station</u> | | | |
| | Olympia Lateral 6" pig launcher | -1.522 | N/A | |
| | Rectifier #300 (for station) | | | Rectifier DC output: 52.84 V; 1.8 A |
| | Rectifier #310 (for pipeline) | | | Rectifier DC output: 4.31 V; 0.82 A |
| 6/21/2012 | 6" Olympia Lateral crossing under | -1.954 | -0.236 | |

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| | Waddell Road SE in Tenino | | | |
| 6/21/2012 | 6" Olympia Lateral crossing under State Highway 507 in Tenino | -1.470 | -0.014 | |
| 6/21/2012 | Old light rail (trail) crossing in Tenino | -1.332 | 0.076 | |
| 6/21/2012 | Railroad crossing in Tenino | -1.740 | -0.058 | |
| 6/21/2012 | Olympia Lateral crossing under 138 th Street in Tenino | -1.450 | -0.128 | |
| 6/21/2012 | Olympia Lateral crossing under Military Road | -1.685 | -0.055 | |
| 6/21/2012 | Olympia Lateral idled & disconnected last 3.5 miles segment | | | This segment is with galvanic system and not impressed current system. |
| | Near the end of the segment | -1.721 | | |
| | At the end of the segment under 83 rd Ave SW | -1.381 | -0.062 | |