

POST INSPECTION MEMORANDUM

Inspector: Al Jones / WUTC
Reviewed: Joe Subits / WUTC
Follow-Up Enforcement: No Violation
PCP* PCO* NOA WL LOC
Director Approval* _____

Date: January 13, 2013

Operator Inspected:
Northwest Pipeline Corp (WGP)

OPID: 13845

Region: Western

Unit Address:
606 South Oregon Avenue
Pasco, WA 99301

Unit Inspected: Pasco

Unit ID: 8385

Unit Type: Interstate

Inspection Type: I-03 – Failure Investigation **NRC#1068710**

Record Location: Pasco, WA

Inspection Dates: December 17 - 20, 2013

AFOD: 4.0 (I-03 = 4 days)

SMART Activity Number:

Operator Contact: Paul Fincher, District Manager

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Emergency: 800-972-7733

Unit Description:

The Pasco District extends from the 26” main line valve (MLV) 14-5 east of the Willard Compressor Station along the Columbia River gorge to the Plymouth LNG Plant, and the 20” line from the Plymouth LNG Plant to MLV 28-3W in Tri-Cities, and the Wenatchee lateral from Plymouth LNG Plant to Wenatchee. The Wenatchee lateral includes the following: a 10” and a 12” looped pipeline from Plymouth (MP 0.0) northwest to Prosser (MP 26.2), a 10” line from Prosser to Yakima (MP 71.9), an **8” line from Yakima to Alcoa Meter Station (MP 134.4), and a 6” line from Alcoa Meter Station to Wenatchee (MP 137.8)**. There are 2 compressor stations for the 26” line at Goldendale and Roosevelt, and a portable compressor station for the Wenatchee lateral at Zillah, approximately 20 miles to the southeast of Yakima. Class III locations for this district are in Kennewick and Yakima.

Facilities Inspected:

On Monday, December 16, 2013 the 8-inch Wenatchee Lateral pipeline near Malaga, Washington developed a leak while the pipe was being sandblasted in preparation for recoating. Prior to the leak, soil erosion from storm water runoff exposed the pipe in Dry Gulch. Between

August and October, 2013 heavy rain storms flooded Dry Gulch basin exposing the pipeline, washing out the highway near the Columbia River, and damaging personal property. Debris flow dented the pipeline in 31 locations. Remediation included placing large boulders near the exposed pipe, sandblast the exposed pipe to evaluate for SCC, sandblasted a second time to prepare for the clock springs, and recoating the pipe. There plans were cancelled when the leak occurred on Monday, December 16, 2013. A new pipe section was installed about one foot lower in elevation on Sunday, December 22, 2013. The damaged pipeline was API 8-inch diameter, 0.188 inch wall thickness, grade 42,000 psig. The pipeline has MAOP of 850 psig (46.4% SMYS) and typically operates at 700 psig (38.2% SMYS).

During the summer of 2013 the Wenatchee Lateral was evaluated using a geometry and MFL inline inspection tools. The geometry tool identified a number of pipe anomalies in the area where the leak occurred. In other areas where the pipe was exposed from erosion the backfill was replaced over the pipeline. The MFL tool stopped short in Yakima because of a pipe restriction. The MFL tool did not complete the inspection and there are no ILI scheduled in 2014. The HCAs for Williams' Wenatchee line #2417 includes the 10", 8" & 6" line are:

- 10" pipeline: Starting MP 70.41 and Ending MP 71.12 has mileage 0.68. The In-Line-Inspection "ILI" has been completed on this section.
- 10' pipeline: Starting MP 71.50 and Ending MP 72.02 has mileage 0.54. The ILI has been completed on this section. This area was hydro tested in 2012.
- 8" pipeline: Starting MP 72.25 and Ending MP 72.51 has mileage of 0.27. The ILI has been completed on the HVA section in 2013. The MFL too did not make the full run, although the tool did complete the HCA section. This area was hydro tested in 2012.
- 6" pipeline: Starting MP 137.56 and Ending MP 137.87 has mileage of 0.30. (Facility mods planned for 2015, ILI planned for 2016.)

The damaged pipe section was transported to Pasco and will be transported to Houston, TX for evaluation. UTC staff inspected the pipe section during the week of January 6, 2014 at the Pasco office.

Persons Interviewed:

Paul Fincher District Manager
Jeremy Weaver Senior Operations Technician

Recommendations:

Staff recommends the pipeline from Yakima to Wenatchee be evaluated using an ILI tool for damage that may have occurred from the recent heavy rain storms. The integrity of the pipeline from Yakima to Wenatchee is important because the line is not looped and several gas distribution systems depend on the lateral including: the City of Ellensburg, Suncadia

Development (Puget Sound Energy), Quincy, Alcoa Aluminum Plant, and Wenatchee (Cascade Natural Gas).

Comments: Scott Rukke will follow up on this work during his 2014 Williams IMP inspections

Attachments:

Field Photos

Version Date: 5/5/08

Photos for the Williams' Wenatchee Lateral Leak Report

December 2013



Photo #1 of 6

View to the north of the ROW at the Wenatchee Lateral crossing at Dry Gulch near MP 131. Remediation included placement of large rocks in the stream bed on each side of pipeline crossing at Dry Gulch.

Photo taken by Al Jones 12/18/2013



Quincy
Lateral

Photo #2 of 6

View to the southeast at the terrain and drainage basin for Dry Gulch and the Quincy lateral connection at the Wenatchee lateral.

Photo taken by Al Jones 12/19/2013



Photo #3 of 6

Looking east at Williams' 8-inch Wenatchee Lateral exposed in Dry Gulch. Remediation included placement of large rocks in the stream bed at pipeline crossing and replacing the pipe. The leak was at about the nine o'clock position on the pipeline where the wooden timbers are located. The timbers deflect gas from the work area. About 31 dents were discovered on the exposed pipe section. At the top of photo is the temporary bypass pipe.

Photo taken by Al Jones 12/19/2013



Photo #4 of 6

Williams' 8-inch Wenatchee Lateral. The leak was at about the nine o'clock position and 3/16 inch diameter hole. About 31 dents were discovered on the exposed pipe section.

Photo taken by Al Jones 1/6/2014



Photo #5 of 6

Williams' 8-inch Wenatchee Lateral. The leak was at about the nine o'clock position and about 3/16 inch diameter hole.

Photo taken by Al Jones 1/6/2014



Photo #6 of 6

View of flood damage and debris flow from the August through October, 2013 storm near the Quincy lateral. The flood water washed out the Chelan County road at several locations.

Photo taken by Al Jones 12/19/2013