

**OPTIONAL FIELD DATA COLLECTION FORM FOR INTRASTATE INSPECTORS**

**NOTES-FIELD INSPECTION**

**Company:** Cascade Natural Gas Corp

**Date(s):** June 20-21, 2012

**Unit:** Grays Harbor/Mason County

Field Readings									
Line & Location	Line		CP Volts		Rectifier		Pressures		Remarks
	Size	In.	P/S	Casing	Volts	Amps	Set	Actual	
Tecumseh and Young			- 1832mV neg lug potential		4.33 DC 1.949 AC	2.56			5/50 Shunt 25.6mV Read value Rectifier Installed 9/30/74
Chenault and Tyler				-.357mV					
SR 105 and Newshaw			- 1364mV		3.6	.066			.01 Shunt Galvanic System
Hwy 12 Casing RR Xing				-460mV -373mV					
Elma and Satsop GB5			- 1530mV		4.283				
R-4 Camp Creek							Standby LU 120 Operator 130	Standby LU 107 Operator Did not lockup	257 inlet 117 Flow downstream 135 MAOP downstream. Relief SP ~138 pilot operated at 135. Lifted at 144 148.5 is MAOP plus 10% There were sections of dis-bonded coating and some external corrosion present needing evaluation on the line pipe. The operating run had corrosion needing evaluation on a welded pipe nipple and

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									the outlet valve housing. There was a chart box that was bolted to the manifold and the operator could not confirm if it was removed during the last atmospheric corrosion survey.
RR and 1 <sup>st</sup> Casing				-304mV					
R-45							LU op run 30 sp	LU op run 30 as found	MAOP 150 Fracture disk 125 upstream Flow point 29.5
Hwy 8 West				-560mV					
Hwy 8 East				-311mV					
McCleary R-10									MAOP 771 inlet MAOP 809 276 flow point oper 285 standby 280 sp relief 300 as found 294 pilot 300 lift 305 downstream MAOP. R-10 - McCleary-Sine Rd at Williams Pipeline, McCleary, Wa There were sections of dis- bonded coating and some external corrosion present needing evaluation on the line pipe.
7 <sup>th</sup> and Fir McCleary			-	1376mV	2.58 DC 1.3 AC	.73			14% of rectifier output 100%
Shelton Rectifier			-	5175mV	19.1DC 8.61AC	3.66			18.3*.2 shunt
Casing @ W. Dayton				-962mV	-218mV				
R-38							Oper run LU sp 22	Oper run LU act	478 inlet 499 MAOP outlet flow 21.9

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							Stdby LU sp 17	Stdby LU act 17	R-38 – Old Olympic Highway at Kitsap Peninsula Line, Shelton, Wa There was a chart box that was bolted to the manifold and the operator could not confirm if it was removed during the last atmospheric corrosion survey.
							Relief SP 24	Relief actual 23.8 pilot 24.2 lifted	
R-53									MAOP 60# LU25# Set Flow 23#
R-15							Op reg lu 120 Standby reg 115 Relief 125	478.6 inlet flow 112 Stndyby lu 115.9 left 114.7	MAOP inlet 499 MAOP 125
R-30									MAOP in 499 out 60 op reg 55 lu stdby 52 lu 59 relief 478inlet 48.8 lu as found reset to 52 relief aqs found 55.9 set to 59
R-18									499 MAOP MAOP 60 oper reg sp lu 25 stdby sp lu20 relief sp 31 478 inlet operating 24.1 actual relief