

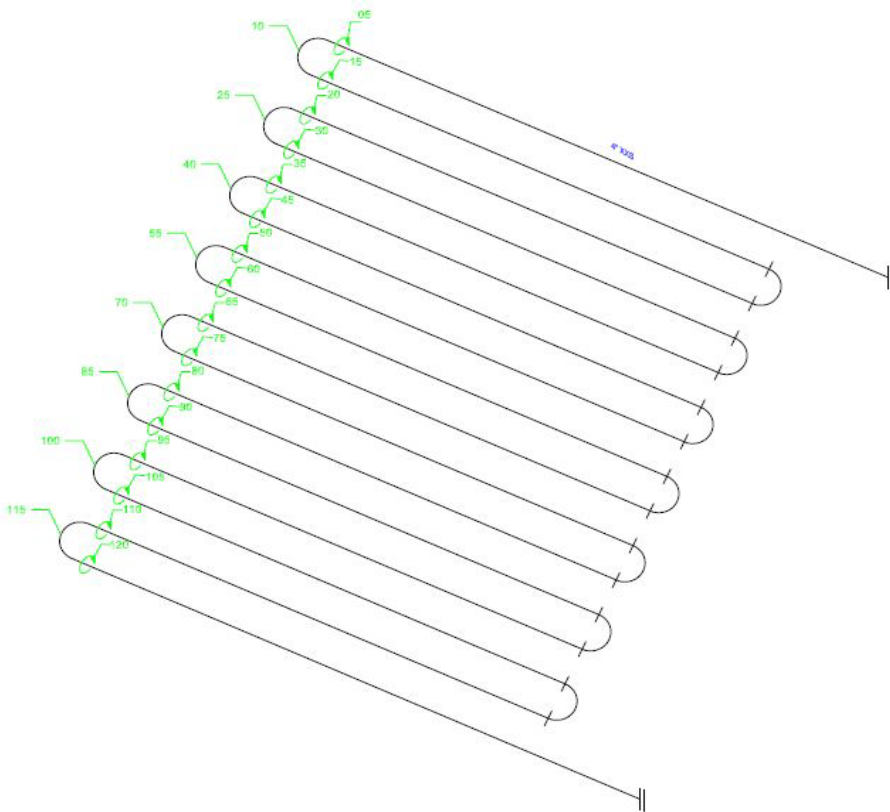


**EQUIPMENT UT DATA REPORT**

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<b>Customer:</b>	Chevron - Canada	<b>PE No.:</b>	N/A	<b>UT No.:</b>	N/A
<b>Facility:</b>	W007	<b>Reg No.:</b>	A0573595	<b>Year Built:</b>	2010
<b>LSD:</b>	D-34-K/094-O-05	<b>CRN:</b>	P9417.213		
<b>Field:</b>	KUS Liard	<b>S/N:</b>	2631-01		
<b>Equipment</b>	Line Heater Coil	<b>Last Survey:</b>	11/1/2015		

<b>UT Data Review Date:</b>	7/18/2016	<b>Comments:</b>	No flags on last survey. No previous data available.
<b>Reviewed By:</b>	Matthew Mackay		Internal access required. Next survey due Nov 2019.



**EQUIPMENT UT DATA REPORT**

Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	5	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 15.9  
 Ave/End (mm) 15.290  
 Min (mm) 14.96

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	14.960	1.040	BASE	BASE	BASE	

Test Location	10	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 17.65  
 Ave/End (mm) 17.630  
 Min (mm) 16.97

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	16.970	3.050	BASE	BASE	BASE	

Test Location	15	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.69  
 Ave/End (mm) 15.240  
 Min (mm) 15.06

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	15.060	1.140	BASE	BASE	BASE	

**EQUIPMENT UT DATA REPORT**

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Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	20	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.21  
 Ave/End (mm) 16.260  
 Min (mm) 16.13

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	16.130	2.210	BASE	BASE	BASE	

Test Location	25	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 18.19  
 Ave/End (mm) 18.290  
 Min (mm) 17.53

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	17.530	3.610	BASE	BASE	BASE	

Test Location	30	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.59  
 Ave/End (mm) 16.760  
 Min (mm) 16.38

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	16.380	2.460	BASE	BASE	BASE	

**EQUIPMENT UT DATA REPORT**

Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	35	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 15.49  
 Ave/End (mm) 16.100  
 Min (mm) 15.32

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	15.320	1.400	BASE	BASE	BASE	

Test Location	40	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 17.4  
 Ave/End (mm) 18.030  
 Min (mm) 17.17

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	17.170	3.250	BASE	BASE	BASE	

Test Location	45	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.13  
 Ave/End (mm) 15.140  
 Min (mm) 14.86

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	14.860	0.940	BASE	BASE	BASE	

**EQUIPMENT UT DATA REPORT**

Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	50	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 17.27  
 Ave/End (mm) 21.670  
 Min (mm) 17.22

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	17.220	3.300	BASE	BASE	BASE	

Test Location	55	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 18.44  
 Ave/End (mm) 19.130  
 Min (mm) 17.93

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	17.930	4.010	BASE	BASE	BASE	

Test Location	60	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.81  
 Ave/End (mm) 16.810  
 Min (mm) 16.76

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	16.760	2.840	BASE	BASE	BASE	

**EQUIPMENT UT DATA REPORT**

Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	65	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 15.7  
 Ave/End (mm) 14.860  
 Min (mm) 14.63

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	14.630	0.710	BASE	BASE	BASE	

Test Location	70	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 18.26  
 Ave/End (mm) 17.530  
 Min (mm) 17.32

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	17.320	3.400	BASE	BASE	BASE	

Test Location	75	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.26  
 Ave/End (mm) 15.700  
 Min (mm) 15.6

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	15.600	1.680	BASE	BASE	BASE	

**EQUIPMENT UT DATA REPORT**

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Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	80	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.18  
 Ave/End (mm) 15.900  
 Min (mm) 15.62

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	15.620	1.700	BASE	BASE	BASE	

Test Location	85	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 18.64  
 Ave/End (mm) 18.420  
 Min (mm) 18.11

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	18.110	4.190	BASE	BASE	BASE	

Test Location	90	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.76  
 Ave/End (mm) 16.080  
 Min (mm) 15.98

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	15.980	2.060	BASE	BASE	BASE	

**EQUIPMENT UT DATA REPORT**

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Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	95	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.64  
 Ave/End (mm) 16.460  
 Min (mm) 15.95

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	15.950	2.030	BASE	BASE	BASE	

Test Location	100	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 17.98  
 Ave/End (mm) 18.470  
 Min (mm) 17.81

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	17.810	3.890	BASE	BASE	BASE	

Test Location	105	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 15.27  
 Ave/End (mm) 15.900  
 Min (mm) 14.91

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	14.910	0.990	BASE	BASE	BASE	



**EQUIPMENT UT DATA REPORT**

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Equipment Line Heater Coil  
 UT No. N/A

PE No. N/A  
 Reg No.: A0573595

Test Location	110	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 15.11  
 Ave/End (mm) 16.810  
 Min (mm) 14.88

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	14.880	0.960	BASE	BASE	BASE	

Test Location	115	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 17.48  
 Ave/End (mm) 17.600  
 Min (mm) 16.99

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	16.990	3.070	BASE	BASE	BASE	

Test Location	120	Nominal Wall Thickness (mm)	17.120
Loc Description		Corrosion Allowance (mm)	3.2
Other		Minimum Allowable (mm)	13.920
Survey Direction			

UT SURVEY THICKNESS READINGS

Date (d/m/y) 1-Nov-15  
 Max/Start (mm) 16.41  
 Ave/End (mm) 16.380  
 Min (mm) 16.18

REMAINING LIFE CALCULATIONS (API 510)

Date (d/m/y)	Min WT (mm)	Allow WT (mm)	STCR (mm/yr)	LTCR (mm/yr)	Rem Life (yrs)	Flag
1-Nov-15	16.180	2.260	BASE	BASE	BASE	