



NOTE:

N1 - PREHEAT  
N2 - REHEAT

COMPLETE @ T/A. NO ACCESS  
INTERNAL. 2010

N1-E9867.213

Equip. No. H-100 Prov. Reg. No. Ⓐ 458976 C.R.N. N2-E9868.213 Serial No. 6569-50 Yr. Inst. \_\_\_\_\_  
 Code/Div. \_\_\_\_\_ Size: \_\_\_\_\_ Manufacturer: PRESSON MANUFACTURING LTD Yr. Bld. 2000  
 C. Stamp: \_\_\_\_\_ Service: SOUR PWHT: YES Radiography: 100% Insulated: NO

**Design & Materials Data**

HEAD:  
 Mat'l. \_\_\_\_\_ Nom. \_\_\_\_\_ C.A. \_\_\_\_\_  
 Mat'l. \_\_\_\_\_ Nom. \_\_\_\_\_ C.A. \_\_\_\_\_  
 CHANNEL:  
 Material: \_\_\_\_\_ Nominal: \_\_\_\_\_ C.A. \_\_\_\_\_  
 BOOT  
 Head Mat'l. \_\_\_\_\_ Head Nom. \_\_\_\_\_ Head C.A. \_\_\_\_\_  
 Shell Mat'l. \_\_\_\_\_ Shell Nom. \_\_\_\_\_ Shell C.A. \_\_\_\_\_  
 SHELL  
 Material: SA 106 B Nominal: N1-17.1mm N1-1.6mm  
TUBE N2-13.7mm C.A. N2-3.2mm  
 MAWP Shell Side: N1-35664 kPa @ Temp. \_\_\_\_\_  
 MAWP Tube Side: N2-13962 kPa @ Temp. N1/N2-93°C

CLIENT	SUNCOR ENERGY INC.	
FACILITY	HANLAN ROBB GAS PLANT UNIT # 63 PEPPERS LSD 07-17	
ITEM	LINE HEATER BUNDLE	
BY: EG	DATE: 09/2002	DWG.# 1A

## UTS DATA

**CLIENT:** SUNCOR ENERGY INC.  
**EQUIPMENT:** LINE HEATER BUNDLE  
**EQUIPMENT ID#:**  
**PROV REG:** A 458976

**FACILITY:** UNIT 63 PEPPERS  
**SERVICE:** SOUR  
**LOCATION:**  
**RTD JOB #:** 05-4160

**TESTED**      **ON**      **STREAM**

**REFER TO DRAWING:** 1A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
<b>05</b>												
Description: 6" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	16.8		16.0		9.4	9.4	4.9	14.3	0.3	0.3	L	2026
Average:	18.0		17.5						0.2	0.2	L	2047
Analysis: 2002/09 MIN SCAN @ 8cm FROM NORTH WELD BELOW APEX												
<b>10</b>												
Description: 6" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	15.4		15.4		9.4	9.4	4.9	14.3	0.0	0.0	L	
Average:	16.5		16.5						0.0	0.0	L	
Analysis: 2002/08 MIN SCAN @ 24cm FROM NORTH WELD ABOVE APEX												
<b>15</b>												
Description: 6" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	16.8		16.7		9.4	9.4	4.9	14.3	0.0	0.0	L	
Average:	17.1		17.1						0.0	0.0	L	
Analysis:												
<b>20</b>												
Description: 6" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	15.0		15.0		9.4	9.4	4.9	14.3	0.0	0.0	L	
Average:	16.3		16.3						0.0	0.0	L	
Analysis: 2002/08 MIN SCAN @ 23cm FROM NORTH WELD ON APEX												
<b>25</b>												
Description: 6" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	16.0		16.0		9.4	9.4	4.9	14.3	0.0	0.0	L	
Average:	17.2		17.2						0.0	0.0	L	
Analysis: 2002/08 MIN SCAN @ 30cm FROM SOUTH WELD ON APEX												
<b>30</b>												
Description: 6" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	15.8		15.8		9.4	9.4	4.9	14.3	0.0	0.0	L	
Average:	16.8		16.8						0.0	0.0	L	
Analysis: 2002/08 MIN SCAN @ 24cm FROM NORTH WELD 2cm BELOW APEX												

## UTS DATA

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**PROV REG:** A 458976

**FACILITY:** UNIT 63 PEPPERS  
**SERVICE:** SOUR  
**LOCATION:**  
**RTD JOB #:** 05-4160

**TESTED**            **ON**            **STREAM**

**REFER TO DRAWING:** 1A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
<b>35</b>												
Description: 4" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	17.2		17.2		14.8	14.8	2.3	17.1	0.0	0.0	L	
Average:	18.2		18.2						0.0	0.0	L	
Analysis: 2002/08 MIN SCAN @ MID ELBOW ON APEX												
<b>40</b>												
Description: 4" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	18.7		18.7		14.8	14.8	2.3	17.1	0.0	0.0	L	
Average:	19.0		19.7						0.0	0.0	L	
Analysis: 2005/04 MIN SCAN @ MID BAND												
<b>45</b>												
Description: 4" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	19.8		19.4		14.8	14.8	2.3	17.1	0.2	0.2	L	2035
Average:	20.4		20.0						0.2	0.2	L	2038
Analysis: 2005/04 MIN SCAN 2" SOUTH, BELOW APEX												
<b>50</b>												
Description: 4" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	18.3		18.3		14.8	14.8	2.3	17.1	0.0	0.0	L	
Average:	18.6		18.6						0.0	0.0	L	
Analysis:												
<b>55</b>												
Description: 4" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	16.5		17.0		14.8	14.8	2.3	17.1	0.0	0.0	L	
Average:	17.1		19.0						0.0	0.0	L	
Analysis: 2005/04 MIN SCAN @ MID BAND												
<b>60</b>												
Description: 4" 180° ELBOW												
	2002	9	2005	4								
Min. Thick.	17.7		17.7		14.8	14.8	2.3	17.1	0.0	0.0	L	
Average:	18.2		18.2						0.0	0.0	L	
Analysis: 2002/08 MIN SCAN @ MID ELBOW 2cm BELOW APEX												

## UTS DATA

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**SERVICE:** SOUR  
**LOCATION:**  
**RTD JOB #:** 05-4160

**TESTED**            ON            STREAM

**REFER TO DRAWING:** 1A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
65												
Description:	4" 180° ELBOW											
	2002	9	2005	4								
Min. Thick.	18.2		18.2		14.8	14.8	2.3	17.1	0.0	0.0		L
Average:	19.8		19.8						0.0	0.0		L
Analysis:	2002/08 MIN SCAN @ MID ELBOW 2cm BELOW APEX											

70												
Description:	4" 180° ELBOW											
	2005	4										
Min. Thick.	17.4				14.8	14.8	2.3	17.1				L
Average:	18.4								0.0	0.0		L
Analysis:	2005/04 MIN SCAN @ MID BAND											