



Equip. No. _____ Prov. Reg. No. **A** 475155 C.R.N. K-1977.12 Serial No. 126-87-01-C Yr. Inst. _____
 Code/Div. ASME B31.3 Size: 36in x 16ft Manufacturer: MAR-QUINN INDUSTRIES Yr. Blt. 2001
 C. Stamp: NO Service: SOUR PWHT: HT Radiography: RT-1 Insulated: NO

Design & Materials Data

HEAD:
 Top Mat'l. SA 36 Top Nom. 6.4mm Top C.A. 3.2mm
 Btm. Mat'l. _____ Btm. Nom. _____ Btm. 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 36 Nominal: 6.4mm C.A. 3.2mm
 MAWP Shell Side: ATMOSPHERIC @ Temp. _____
 MAWP Tube Side: 20340 kPa @ Temp. 93°C

CLIENT	CANADIAN NATURAL RESOURCES LTD	
FACILITY	WEST BLUEBERRY GAS GATHERING LSD 08-04-88-25 W6M	
ITEM	LINE HEATER PIPING	
BY: IDM	DATE: 08/2010	DWG.# 17

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES LTD
EQUIPMENT: LINE HEATER
CRN#: K-1977.12
PROV REG: A 475155
TESTED ON STREAM

FACILITY: WEST BLUEBERRY GAS GATHERING
SERVICE: SOUR
LOCATION: 08-04-88-25 W6M
RTD JOB #: 105.00828
REFER TO DRAWING: 17

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
207												
Description:	TOP SHELL											
	2010 8											
Min. Thick.	6.3				3.2		3.2	6.4				L
Average:	6.4								0	0		L
Analysis:												

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES LTD
EQUIPMENT: LINE HEATER PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: WEST BLUEBERRY GAS GATHERING
SERVICE: SOUR
LOCATION: 08-04-88-25 W6M
RTD JOB #: 105.00828
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Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
205												
Description: 3" 90° ELBOW												
2010 8												
Min. Thick.	10.9	9.71	1.4	11.1					0	0		L
Average:	11.1											L
Analysis:												
210												
Description: 3" 90° ELBOW												
2010 8												
Min. Thick.	7.3	6.65	1	7.6					0	0		L
Average:	7.5											L
Analysis:												
215												
Description: 3" 90° ELBOW												
2010 8												
Min. Thick.	7.4	6.65	1	7.6					0	0		L
Average:	7.7											L
Analysis:												
220												
Description: 3" 90° ELBOW												
2010 8												
Min. Thick.	6.8	6.65	1	7.6					0	0		L
Average:	7.3											L
Analysis:												
225												
Description: 3" 90° ELBOW												
2010 8												
Min. Thick.	6.5	6.65	6.2	1	7.6				0	0		L 2010
Average:	7											L
Analysis:												