



Equip. No. _____ Prov. Reg. No. **A** 468556 C.R.N. B60.2134578T Serial No. 001085-003V2 Yr. Inst. _____
 Code/Div. ASME B31.3 Size: 36in x 14ft Manufacturer: BLACK, SIVALLS & BRYSON Yr. Bld. 2001
 C. Stamp: _____ Service: SOUR PWHT: NIL Radiography: NIL Insulated: 50%

Design & Materials Data

HEAD:
 Top Mat'l. SA 36 Top Nom. 4.8mm Top C.A. _____
 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: 4.8mm C.A. _____
 MAWP Shell Side: 23269 kPa COIL 1 @ Temp. 121°C
 MAWP Tube Side: 10776 kPa COIL 2 @ Temp. 93°C

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	KNOPCIK GAS GATHERING LSD 07-07-73-10 W6M	
ITEM	LINE HEATER	
BY: TR/CM	DATE: 2011/03	DWG.# 99

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: RISER PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: KNOPCIK GAS GATHERING
SERVICE: SOUR
LOCATION: 07-07-73-10 W6M
RTD JOB #: 10.110056
REFER TO DRAWING: 98

Test Point	THICKNESS DATA	Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
135									
Description: 3" 45° ELBOW									
2011 3									
Min. Thick.	8	4.81		.7	5.50				L
Average:	8.3					0	0		L
Analysis:									
140									
Description: 2" 45° ELBOW									
2011 3									
Min. Thick.	3.9	3.41		.5	3.90				L
Average:	4.1					0	0		L
Analysis:									

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: LINE HEATER PIPING
CRN#:
PROV REG: A 468556
TESTED ON STREAM

FACILITY: KNOPCIK GAS GATHERING
SERVICE: SOUR
LOCATION: 07-07-73-10 W6M
RTD JOB #: 10.110056
REFER TO DRAWING: 99

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
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205												
Description:	3" 90° ELBOW											
	2011 3											
Min. Thick.	16	9.71	1.4	11.10								L
Average:	16.3				0	0						L
Analysis:												
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210												
Description:	2" 90° ELBOW											
	2011 3											
Min. Thick.	8.5	7.61	1.1	8.70								L
Average:	8.8				0	0						L
Analysis:												
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215												
Description:	3" 90° ELBOW											
	2011 3											
Min. Thick.	7.6	6.65	1	7.60								L
Average:	7.8				0	0						L
Analysis:												
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225												
Description:	3" 90° ELBOW											
	2011 3											
Min. Thick.	7.3	6.65	1	7.60								L
Average:	7.6				0	0						L
Analysis:												
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