



Equip. No. _____ Prov. Reg. No. **A** 170474 C.R.N. D-8639.2 Serial No. B 1140 Yr. Inst. _____
 Code/Div. ASME VIII, DIV1 Size: 96in x 29ft Manufacturer: PRESSON Yr. Bld. 1981
 C. Stamp: _____ Service: SWEET PWHT: HT Radiography: RT-1 Insulated: 90%

Design & Materials Data

HEAD:
 Top Mat'l. SA 36 Top Nom. _____ 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: _____ C.A. _____
 MAWP Shell Side: 22753 kPa @ Temp. 93°C
 MAWP Tube Side: _____ @ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES LTD	
FACILITY	CHINCHAGA GAS PLANT LSD 01-24-96-05 W6M	
ITEM	BRASCAN LINE HEATER	
BY: TR	DATE: 09/2011	DWG.# 12

**CANADIAN NATURAL RESOURCES
CHINCHAGA GAS PLANT
LSD: 01-24-96-05 W6M**

LINE HEATER A0170474

FIRETUBE READINGS / All Readings are measured in Millimeters

Fire Tube #	Position			
	3:00	6:00	9:00	12:00
1	7.6	7.6	7.5	7.6
2	7.5	7.5	7.5	7.5
3	7.5	7.5	7.4	7.5
4	7.4	7.4	7.3	7.4
5	7.3	7.2	7.2	7.2
6	7.5	7.3	7.3	7.4
7	7.6	7.6	7.6	7.6
8	7.5	7.5	7.5	7.5
9	7.5	7.6	7.6	7.6
10	7.7	7.7	7.8	7.8
11	7.6	7.6	7.6	7.7
12	7.2	7.6	7.6	7.4
13	7.3	7.4	7.4	7.4
14	7.6	7.4	7.4	7.6

Gas Coil 6" 180 (160) pipe Schedule

Gas Coil #	Readings	
	Min	Avg.
1	17.6	19.4
2	19.3	20.7
3	16.0	19.0
4	19.5	20.3
5	17.6	19.1
6	19.2	20.9
7	19.2	20.5

T-min calculations carried out to 14.7mm.