



PSV DATA
 MFG: FARRIS
 MODEL: 27DA33-M20
 SERIAL: 449435-11-KE-SE22481-1
 SET PRES: 3792 kPa
 CAPACITY: 1246 scfm
 SERVICED BY: BLACK GOLD
 SERVICE DATE: 01/2003
 SIZE: 1in x 1in
 CODE STAMP: UV
 BLOCK VALVE: NO
 CRN: 0G0386.9C
 LOCATION: N/S
 TAG: 8995

Equip. No. _____ Prov. Reg. No. Ⓐ 475010 C.R.N. K-1977.12 Serial No. 126-80-1-C Yr. Inst. _____
 Code/Div. ASME B31.3 Size: 30in x 49in Manufacturer: MAR-QUINN Yr. Bld. 2001
 C. Stamp: NO Service: SOUR PWHT: YES Radiography: 100% Insulated: 3/4

Design & Materials Data

HEAD:
 Top Mat'l. SA 36 Top Nom. 6.4mm Top C.A. 1.6mm
 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. 1.6mm
 MAWP Shell Side: 13962 kPa @ Temp. 93°C
 MAWP Tube Side: 20340 kPa @ Temp. 93°C

CLIENT CANADIAN NATURAL RESOURCES LTD.		
FACILITY SADDLE HILLS GAS GATHERING 15-34-75-7 W6M		
ITEM LINE HEATER		
BY: LR	DATE: 05/2005	DWG.# 23

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: LINE HEATER
CRN#: K-1977.12
PROV REG: A 475010
TESTED ON STREAM

FACILITY: SADDLE HILLS GAS GATHERING
SERVICE: SOUR
LOCATION: 15-34-75-07 W6M
RTD JOB #: 10.110674
REFER TO DRAWING: 23

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
235	Description: LOWER SHELL											
	2005	5	2008	5	2011	9						
Min. Thick.	6.8		6.2		6.2		4.80	1.6	6.40	0	.09	
Average:	6.9		6.4		6.4					0	.08	
Analysis:												
240	Description: TOP SHELL											
	2008	5	2011	9								
Min. Thick.	6.4		6.4				4.80	1.6	6.40	0	0	
Average:	6.5		6.5							0	0	
Analysis:												

UTS DATA

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

FACILITY: SADDLE HILLS GAS GATHERING
SERVICE: SOUR
LOCATION: 15-34-75-07 W6M
RTD JOB #: 10.110674
REFER TO DRAWING: 23

Test Point	THICKNESS DATA					Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
205													
Description: 3" 45° ELBOW													
	2005	5	2008	5	2011	9							
Min. Thick.	11.1		10.8		10.8		9.71	1.4	11.10	0		.05	
Average:	12.7		11.5		11.5					0		.19	
Analysis: 2005-05 MIN SCAN AT MID APEX.													
210													
Description: 3" 90° ELBOW													
	2005	5	2008	5	2011	9							
Min. Thick.	6.9		6.3		6.3		6.65	4.3	.9	7.60	0	.09	
Average:	7.7		6.7		6.7					0		.16	
Analysis: 2005-05 MIN SCAN AT MID APEX. 2011/08 RETIREMNT DATE 2026.													
215													
Description: 3" 90° ELBOW													
	2005	5	2008	5	2011	9							
Min. Thick.	7.3		7.3		6.7		6.65	4.3	.9	7.60	.18	.09	
Average:	8		8		7.1					0	.27	.14	
Analysis: 2005-05 MIN SCAN AT MID APEX. 2011/08 RETIREMNT DATE 2038.													
220													
Description: 3" 90° ELBOW													
	2005	5	2008	5	2011	9							
Min. Thick.	7		7		7		6.65		.9	7.60	0	0	
Average:	8		8		8					0		0	
Analysis: 2005-05 MIN SCAN AT MID APEX.													
225													
Description: 3" 45° ELBOW													
	2005	5	2008	5	2011	9							
Min. Thick.	8		6.6		6.6		6.65	4.3	.9	7.60	0	.22	
Average:	8.5		7.1		7.1					0		.22	
Analysis: 2005-05 MIN SCAN AT MID APEX. 2011/08 RETIREMNT DATE 2034.													
230													
Description: 3" 90° ELBOW													
	2005	5	2008	5	2011	9							
Min. Thick.	7.6		7.6		7.6		6.65		.9	7.60	0	0	
Average:	8		8		8					0		0	
Analysis: 2005-05 MIN SCAN AT MID APEX.													