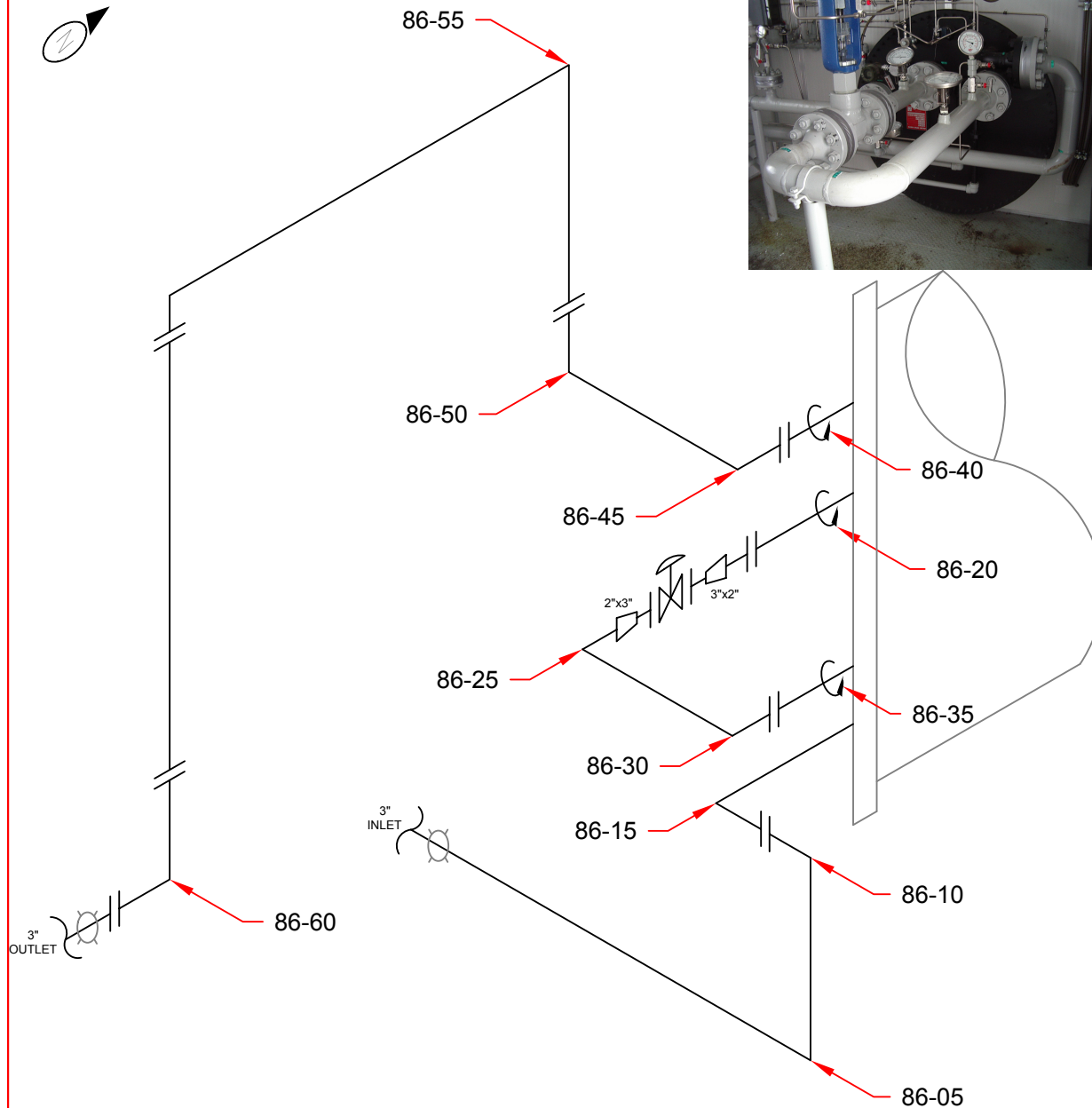


ITEM:

LINE HEATER - PIPING

A0569290



STETTLER, AB (403) 742-4868
 LACOMBE, AB (403) 782-7855
 BROOKS, AB (403) 501-8029
 GRANDE PRAIRIE, AB (866) 422-9732

TECHNICIAN:

JOSHUA WALTERS
 SNT LEVEL II
 CGSB 48.9712
 LEVEL II # 15660

DATE: 3/07/12

DWG # 86A

CLIENT:

CNRL

LSD:

10-25-074-08-W6M

INSPECTOR :

AJMAL KHAN

LOCATION :

TEEPEE CREEK FIELD

DISTRICT UNIT :

PEACE RIVER ARCH

BLDG/SKID :

SKD0599

PROCESS :

SOUR

CODE :

ASME B31.3

SPECIFICATION :

AS PER ASME SE 797

TECHNIQUE :

UT 1-1, REV .1

METHOD :

UT CONTINUOUS / A SCAN

SURFACE COND :

PAINTED

SURFACE TEMP :

AMBIENT

PIPING INFORMATION

PIPING ID	SIZE	SCH	NOM	M.A.W.P. (VESSEL)	M.A.W.T. (VESSEL)	FLANGE RATING
86-05	3.50"	XXS	.600"	3375 PSI	200 °F	-
86-10	"	"	"	"	"	"
86-15	"	"	"	"	"	"
86-20	"	"	"	"	"	-
86-25	3.50"	XS	.300"	1600 PSI	200 °F	"
86-30	"	"	"	"	"	"
86-35	"	"	"	"	"	"
86-40	"	"	"	"	"	"
86-45	"	"	"	"	"	"
86-50	"	"	"	"	"	"
86-55	"	"	"	"	"	"
86-60	"	"	"	"	"	"

COMMENTS:

PROJECT:

C70222



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 10-25-074-08W6 Dwg: 86 Vessel Number: A0569290 Manufacturer: RJV
District Unit: PEACE RIVER ARCH Vessel Name: LINE HEATER - PIPING Serial Number: CO-303
Location: TEEPEE CREEK FIELD Year Built: 2007 Shell MAWP PSI: 3375 MAWT F: 200 Project #: C70222
Skid: SKD0599 Tag Number: - Tube MAWP PSI: 1600 MAWT F: 200
CRN: R0573.2/R0564.2 Vessel CA: 0.0000

Survey Date: 3/07/12

Inspector: AJMAL KHAN

Process: SOUR

Project #: C70222

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
86-05	Piping	Baseline		0.581	0.582	0.580	0.578	0.591	0.582	2008	0.582	0.578	0.6000	0.0750	0.2723	2013	2032
Shape	90° Elbow	Shell Side	Previous	0.581	0.582	0.580	0.578	0.591	0.582	2008	0.582	0.578	Comments-->				
OD	3.5		Current	0.581	0.582	0.580	0.578	0.591	0.582	2012	0.582	0.578					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
86-10	Piping	Baseline		0.630	0.612	0.606	0.600	0.603	0.616	2008	0.611	0.600	0.6000	0.0750	0.2723	2013	2032
Shape	90° Elbow	Shell Side	Previous	0.630	0.612	0.606	0.600	0.603	0.616	2008	0.611	0.600	Comments-->				
OD	3.5		Current	0.630	0.612	0.606	0.600	0.603	0.612	2012	0.611	0.600					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
86-15	Piping	Baseline		0.542	0.536	0.538	0.541	0.549	0.557	2008	0.544	0.536	0.6000	0.0750	0.2723	2013	2032
Shape	90° Elbow	Shell Side	Previous	0.542	0.536	0.538	0.541	0.549	0.557	2008	0.544	0.536	Comments-->				
OD	3.5		Current	0.542	0.536	0.538	0.541	0.549	0.557	2012	0.544	0.536					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
86-20	Piping	Baseline		0.574	0.597	0.575	0.577	0.577	0.580	2008	0.580	0.574	0.6000	0.0750	0.2723	2013	2032
Shape	Cylindrical	Shell Side	Previous	0.574	0.597	0.575	0.577	0.577	0.580	2008	0.580	0.574	Comments-->				
OD	3.5		Current	0.574	0.596	0.575	0.577	0.577	0.577	2012	0.579	0.574					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 106 - B			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 10-25-074-08W6 Dwg: 86 Vessel Number: A0569290 Manufacturer: RJV Survey Date: 3/07/12
District Unit: PEACE RIVER ARCH Vessel Name: LINE HEATER - PIPING Serial Number: CO-303 Inspector: AJMAL KHAN
Location: TEEPEE CREEK FIELD Year Built: 2007 Shell MAWP PSI: 3375 MAWT F: 200 Process: SOUR
Skid: SKD0599 Tag Number: - Tube MAWP PSI: 1600 MAWT F: 200 Project #: C70222
CRN: R0573.2/R0564.2 Vessel CA: 0.0000

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
86-25	Piping	Baseline		0.288	0.279	0.276	0.278	0.287	0.289	2008	0.283	0.276	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.288	0.279	0.276	0.278	0.287	0.289	2008	0.283	0.276	Comments-->				
OD	3.5		Current	0.288	0.279	0.276	0.278	0.287	0.289	2012	0.283	0.276					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
86-30	Piping	Baseline		0.292	0.282	0.284	0.286	0.279	0.282	2008	0.284	0.279	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.292	0.282	0.284	0.286	0.279	0.282	2008	0.284	0.279	Comments-->				
OD	3.5		Current	0.292	0.282	0.284	0.286	0.279	0.282	2012	0.284	0.279					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
86-35	Piping	Baseline		0.298	0.299	0.298	0.293	0.295	0.294	2008	0.296	0.293	0.3000	0.0375	0.1346	2013	2032
Shape	Cylindrical	Tube Side	Previous	0.298	0.299	0.298	0.293	0.295	0.294	2008	0.296	0.293	Comments-->				
OD	3.5		Current	0.298	0.299	0.298	0.293	0.295	0.294	2012	0.296	0.293					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 106 - B			LT Loss MPY							0.000						
86-40	Piping	Baseline		0.309	0.307	0.308	0.306	0.307	0.307	2008	0.307	0.306	0.3000	0.0375	0.1346	2013	2032
Shape	Cylindrical	Tube Side	Previous	0.309	0.307	0.308	0.306	0.307	0.307	2008	0.307	0.306	Comments-->				
OD	3.5		Current	0.309	0.307	0.308	0.306	0.307	0.307	2012	0.307	0.306					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 106 - B			LT Loss MPY							0.000						



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 10-25-074-08W6 Dwg: 86 Vessel Number: A0569290 Manufacturer: RJV Survey Date: 3/07/12
District Unit: PEACE RIVER ARCH Vessel Name: LINE HEATER - PIPING Serial Number: CO-303 Inspector: AJMAL KHAN
Location: TEEPEE CREEK FIELD Year Built: 2007 Shell MAWP PSI: 3375 MAWT F: 200 Process: SOUR
Skid: SKD0599 Tag Number: - Tube MAWP PSI: 1600 MAWT F: 200 Project #: C70222
CRN: R0573.2/R0564.2 Vessel CA: 0.0000

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
86-45		Piping	Baseline	0.295	0.286	0.285	0.284	0.288	0.290	2008	0.288	0.284	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.295	0.286	0.285	0.284	0.288	0.290	2008	0.288	0.284	Comments-->				
OD	3.5		Current	0.288	0.284	0.283	0.284	0.288	0.288	2012	0.286	0.283					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
86-50		Piping	Baseline	0.300	0.301	0.304	0.304	0.306	0.305	2008	0.303	0.300	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.300	0.301	0.304	0.304	0.306	0.305	2008	0.303	0.300	Comments-->				
OD	3.5		Current	0.300	0.301	0.303	0.302	0.306	0.305	2012	0.303	0.300					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
86-55		Piping	Baseline	0.298	0.297	0.292	0.292	0.292	0.295	2008	0.294	0.292	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.298	0.297	0.292	0.292	0.292	0.295	2008	0.294	0.292	Comments-->				
OD	3.5		Current	0.298	0.297	0.292	0.292	0.292	0.292	2012	0.294	0.292					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
86-60		Piping	Baseline	0.285	0.283	0.285	0.288	0.289	0.292	2008	0.287	0.283	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.285	0.283	0.285	0.288	0.289	0.292	2008	0.287	0.283	Comments-->				
OD	3.5		Current	0.285	0.283	0.285	0.287	0.288	0.292	2012	0.287	0.283					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							