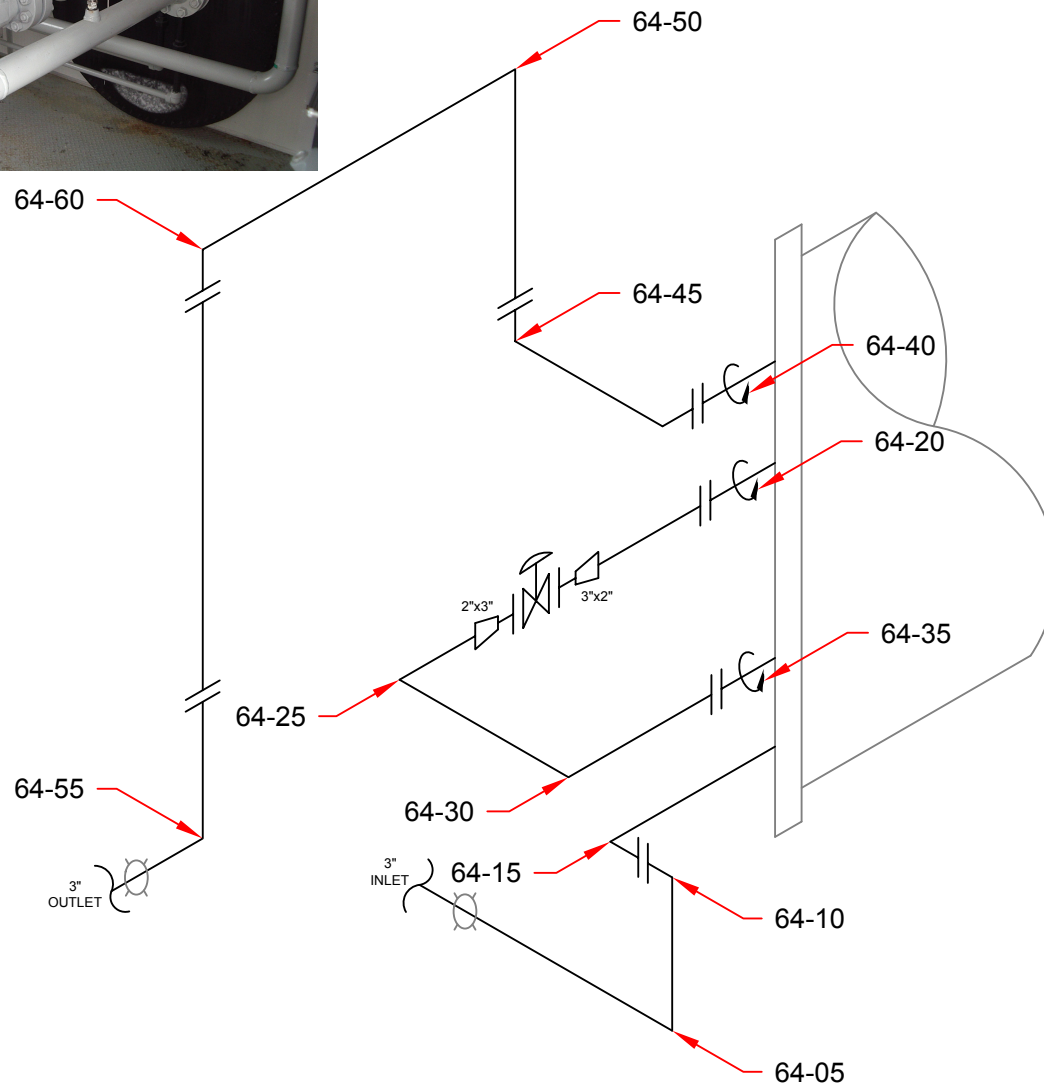


ITEM:

LINE HEATER - PIPING

A0569292



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: 3/06/12

DWG # 64A

CLIENT: CNRL

LSD: 13-35-074-08-W6M

INSPECTOR : AJMAL KHAN

LOCATION : TEEPEE CREEK FIELD

DISTRICT UNIT : PEACE RIVER ARCH

BLDG/SKID : SKD0586

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
64-05	3.50"	XXS	.600"	3375 PSI	200 °F	-
64-10	"	"	"	"	"	"
64-15	"	"	"	"	"	"
64-20	"	"	"	"	"	"
64-25	3.50"	XS	.300"	1600 PSI	200 °F	"
64-30	"	"	"	"	"	"
64-35	"	"	"	"	"	"
64-40	"	"	"	"	"	"
64-45	"	"	"	"	"	"
64-50	"	"	"	"	"	"
64-55	"	"	"	"	"	"
64-60	"	"	"	"	"	"

COMMENTS:

PROJECT:

C70222



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 13-35-074-08W6 Dwg: 64 Vessel Number: A0569292 Manufacturer: RJV Survey Date: 3/06/12
District Unit: PEACE RIVER ARCH Vessel Name: LINE HEATER - PIPING Serial Number: CO-305 Inspector: AJMAL KHAN
Location: TEEPEE CREEK FIELD Year Built: 2007 Shell MAWP PSI: 3375 MAWT F: 200 Process: SOUR
Skid: SKD0586 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								
64-05	Piping	Baseline		0.574	0.573	0.575	0.577	0.573	0.575	2008	0.575	0.573	0.6000	0.0750	0.2723	2013	2032
Shape	90° Elbow	Shell Side	Previous	0.574	0.573	0.575	0.577	0.573	0.575	2008	0.575	0.573	Comments-->				
OD	3.5		Current	0.574	0.573	0.575	0.577	0.573	0.575	2012	0.575	0.573					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
64-10	Piping	Baseline		0.544	0.540	0.537	0.536	0.537	0.538	2008	0.539	0.536	0.6000	0.0750	0.2723	2013	2032
Shape	90° Elbow	Shell Side	Previous	0.544	0.540	0.537	0.536	0.537	0.538	2008	0.539	0.536	Comments-->				
OD	3.5		Current	0.540	0.540	0.537	0.536	0.537	0.538	2012	0.538	0.536					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
64-15	Piping	Baseline		0.587	0.595	0.596	0.606	0.611	0.613	2008	0.601	0.587	0.6000	0.0750	0.2723	2013	2032
Shape	90° Elbow	Shell Side	Previous	0.587	0.595	0.596	0.606	0.611	0.613	2008	0.601	0.587	Comments-->				
OD	3.5		Current	0.587	0.595	0.586	0.600	0.605	0.608	2012	0.597	0.586					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
64-20	Piping	Baseline		0.603	0.601	0.602	0.605	0.607	0.570	2008	0.598	0.570	0.6000	0.0750	0.2723	2013	2032
Shape	Cylindrical	Shell Side	Previous	0.603	0.601	0.602	0.605	0.607	0.570	2008	0.598	0.570	Comments-->				
OD	3.5		Current	0.603	0.579	0.602	0.602	0.602	0.570	2012	0.593	0.570					
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: 13-35-074-08W6 Dwg: 64 Vessel Number: A0569292 Manufacturer: RJV Survey Date: 3/06/12
District Unit: PEACE RIVER ARCH Vessel Name: LINE HEATER - PIPING Serial Number: CO-305 Inspector: AJMAL KHAN
Location: TEEPEE CREEK FIELD Year Built: 2007 Shell MAWP PSI: 3375 MAWT F: 200 Process: SOUR
Skid: SKD0586 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								
64-25		Piping	Baseline	0.288	0.289	0.286	0.285	0.280	0.292	2008	0.287	0.280	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.288	0.289	0.286	0.285	0.280	0.292	2008	0.287	0.280	Comments-->				
OD	3.5		Current	0.288	0.289	0.286	0.285	0.280	0.292	2012	0.287	0.280					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
64-30		Piping	Baseline	0.271	0.272	0.266	0.273	0.274	0.275	2008	0.272	0.266	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.271	0.272	0.266	0.273	0.274	0.275	2008	0.272	0.266	Comments-->				
OD	3.5		Current	0.271	0.272	0.266	0.273	0.274	0.275	2012	0.272	0.266					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 234 - WPB			LT Loss MPY						0.000							
64-35		Piping	Baseline	0.295	0.294	0.291	0.294	0.291	0.288	2008	0.292	0.288	0.3000	0.0375	0.1346	2013	2032
Shape	Cylindrical	Tube Side	Previous	0.295	0.294	0.291	0.294	0.291	0.288	2008	0.292	0.288	Comments-->				
OD	3.5		Current	0.295	0.294	0.291	0.294	0.291	0.288	2012	0.292	0.288					
Spec.	B31.3			ST Loss MPY						0.000		OK					
Material	A 106 - B			LT Loss MPY						0.000							
64-40		Piping	Baseline	0.284	0.278	0.285	0.278	0.278	0.280	2008	0.281	0.278	0.3000	0.0375	0.1346	2013	2032
Shape	Cylindrical	Tube Side	Previous	0.284	0.278	0.285	0.278	0.278	0.280	2008	0.281	0.278	Comments-->				
OD	3.5		Current	0.284	0.278	0.285	0.278	0.278	0.280	2012	0.281	0.278					
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: 13-35-074-08W6 Dwg: 64 Vessel Number: A0569292 Manufacturer: RJV Survey Date: 3/06/12
District Unit: PEACE RIVER ARCH Vessel Name: LINE HEATER - PIPING Serial Number: CO-305 Inspector: AJMAL KHAN
Location: TEEPEE CREEK FIELD Year Built: 2007 Shell MAWP PSI: 3375 MAWT F: 200 Process: SOUR
Skid: SKD0586 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								
64-45	Piping	Baseline		0.283	0.279	0.277	0.278	0.280	0.288	2008	0.281	0.277	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.283	0.279	0.277	0.278	0.280	0.288	2008	0.281	0.277	Comments-->				
OD	3.5		Current	0.283	0.279	0.277	0.278	0.280	0.288	2012	0.281	0.277					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
64-50	Piping	Baseline		0.299	0.297	0.298	0.303	0.303	0.305	2008	0.301	0.297	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.299	0.297	0.298	0.303	0.303	0.305	2008	0.301	0.297	Comments-->				
OD	3.5		Current	0.299	0.297	0.298	0.303	0.303	0.305	2012	0.301	0.297					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
64-55	Piping	Baseline		0.270	0.268	0.267	0.267	0.272	0.271	2008	0.269	0.267	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.270	0.268	0.267	0.267	0.272	0.271	2008	0.269	0.267	Comments-->				
OD	3.5		Current	0.270	0.268	0.267	0.267	0.272	0.271	2012	0.269	0.267					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						
64-60	Piping	Baseline		0.296	0.290	0.287	0.286	0.288	0.288	2008	0.289	0.286	0.3000	0.0375	0.1346	2013	2032
Shape	90° Elbow	Tube Side	Previous	0.296	0.290	0.287	0.286	0.288	0.288	2008	0.289	0.286	Comments-->				
OD	3.5		Current	0.294	0.290	0.287	0.286	0.288	0.288	2012	0.289	0.286					
Spec.	B31.3			ST Loss MPY							0.000		OK				
Material	A 234 - WPB			LT Loss MPY							0.000						