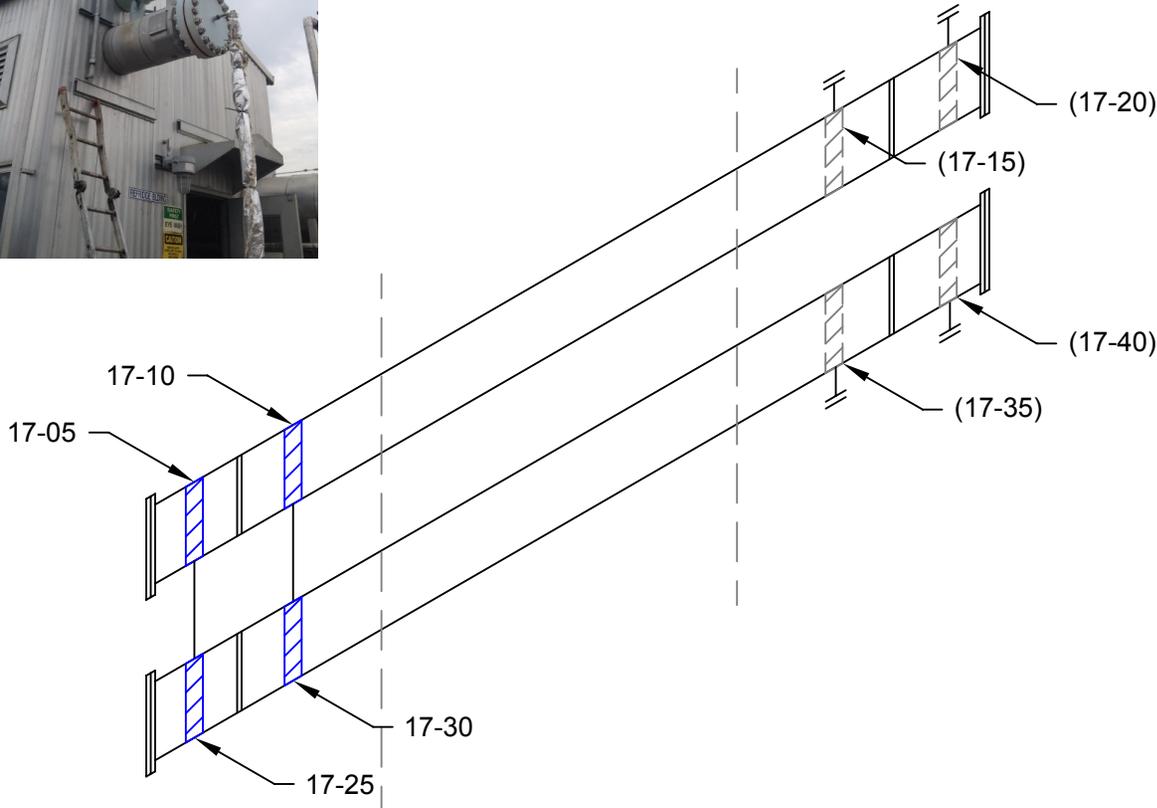


ITEM:

**GAS/GAS EXCHANGER**

**A3162237**



COMMENTS:

NOT SCANNED - SCAFFOLDING AND/ OR TALLER LADDER REQUIRED

PROJECT:

**C61017**



ASSET INTEGRITY  
SYLVAN LAKE, AB (403) 887-3562  
PIPELINE INTEGRITY  
WHITECOURT, AB (780) 778-5584  
NON-DESTRUCTIVE TESTING  
GRANDE PRAIRIE, AB (780) 518-9757

TECHNICIAN:

**DANIEL MACLEAN**  
SNT LEVEL II  
CGSB 48.9712  
LEVEL II # 15997

DATE: 8/07/13

DWG: 17

CLIENT: **LONG RUN EXPLORATION**

LSD: **03-26-074-01-W6M**

INSPECTOR : DUANE PAETKAU

LOCATION : PUSKWASKAU

DISTRICT UNIT : NORTHERN AB

BLDG/SKID : PKG62777

PROCESS : SOUR

CODE : ASME SEC VIII DIV 1

SPECIFICATION : AS PER ASME SE 797

TECHNIQUE : UT 1-1, REV .1

METHOD : UT CONTINUOUS / A SCAN

SURFACE COND : PAINTED

SURFACE TEMP : AMBIENT

**VESSEL INFORMATION**

VESSEL # : **A3162237**

CRN # : N1341.2

SERIAL # : 95261-AA

MANUFACTURER : PROPAK SYSTEMS

DATE BUILT : 1996

CLIENT ID / TAG : F-880

M.A.W.P : 1320 PSI

M.A.W.T. : 151° F

JOINT EFFICIENCY/RT : RT 2

STRESS RELIEVED : NO

INSULATED : YES

MANWAY : NO

**VESSEL SPECIFICATIONS**

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	-	-	-	-
VESSEL SHELL	16"	-	SA-106-B	.063"
BOOT HEAD	-	-	-	-
BOOT SHELL	-	-	-	-





# ULTRASONIC CORROSION SURVEY

## Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162237	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: GAS/GAS EXCHANGER	Serial Number: 95261-AA	Inspector: MWS
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1320 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 1320 MAWT F: 151	Project #: C61129
	CRN: N1341.2	Vessel CA: 0.0630	Report Number: 29876

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
05	Shell	Baseline	0.872	0.875	0.875	0.832	0.839	0.840	2014	0.856	0.832	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.872	0.875	0.875	0.832	0.839	0.840	2014	0.856	0.832						
Spec.	VIII Div 1	ST Loss MPY															
Material	SA 106 - B	LT Loss MPY 0															
10	Shell	Baseline	0.829	0.829	0.826	0.825	0.836	0.836	2014	0.830	0.825	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.829	0.829	0.826	0.825	0.836	0.836	2014	0.830	0.825						
Spec.	VIII Div 1	ST Loss MPY															
Material	SA 106 - B	LT Loss MPY 0															
15	Shell	Baseline	0.846	0.849	0.849	0.849	0.849	0.850	2014	0.849	0.846	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.846	0.849	0.849	0.849	0.849	0.850	2014	0.849	0.846						
Spec.	VIII Div 1	ST Loss MPY															
Material	SA 106 - B	LT Loss MPY 0															
20	Shell	Baseline	0.846	0.856	0.856	0.840	0.837	0.834	2014	0.845	0.834	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.846	0.856	0.856	0.840	0.837	0.834	2014	0.845	0.834						
Spec.	VIII Div 1	ST Loss MPY															
Material	SA 106 - B	LT Loss MPY 0															



# ULTRASONIC CORROSION SURVEY

## Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162237	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: GAS/GAS EXCHANGER	Serial Number: 95261-AA	Inspector: MWS
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1320 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 1320 MAWT F: 151	Project #: C61129
	CRN: N1341.2	Vessel CA: 0.0630	Report Number: 29876

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
25	Shell	Baseline	0.827	0.832	0.832	0.836	0.834	0.834	2014	0.833	0.827	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.827	0.832	0.832	0.836	0.834	0.834	2014	0.833	0.827						
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY						0							
30	Shell	Baseline	0.847	0.852	0.849	0.860	0.851	0.851	2014	0.852	0.847	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.847	0.852	0.849	0.860	0.851	0.851	2014	0.852	0.847						
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY						0							
35	Shell	Baseline	0.872	0.870	0.870	0.869	0.866	0.866	2014	0.869	0.866	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.872	0.870	0.870	0.869	0.866	0.866	2014	0.869	0.866						
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY						0							
40	Shell	Baseline	0.856	0.846	0.843	0.844	0.851	0.846	2014	0.848	0.843	0.8440	0.0630	0.6666	2015	2034	
Shape	Cylindrical	Tube Side	Previous	Comments--> OK													
OD	16	Current	0.856	0.846	0.843	0.844	0.851	0.846	2014	0.848	0.843						
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY						0							



# ULTRASONIC CORROSION SURVEY

## Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162237	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: GAS/GAS EXCHANGER	Serial Number: 95261-AA	Inspector: MWS
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1320 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 1320 MAWT F: 151	Project #: C61129
	CRN: N1341.2	Vessel CA: 0.0630	Report Number: 29876

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
45	Nozzle	Baseline	0.859	0.856	0.863	0.851	0.855	0.841	2014	0.854	0.841	0.8640	0.0630	0.2281	2015	2034	
Shape	Cylindrical	shell Side	Previous													Comments-->	OK
OD	6.625	Current	0.859	0.856	0.863	0.851	0.855	0.841	2014	0.854	0.841						
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY						0							
50	Nozzle	Baseline	0.835	0.835	0.829	0.867	0.867	0.873	2014	0.851	0.829	0.8640	0.0630	0.2281	2015	2034	
Shape	Cylindrical	shell Side	Previous													Comments-->	OK
OD	6.625	Current	0.835	0.835	0.829	0.867	0.867	0.873	2014	0.851	0.829						
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY						0							
55	Piping	Baseline	0.449	0.449	0.453	0.450	0.453	0.439	2014	0.449	0.439	0.4320	0.0540	0.2116	2015	2034	
Shape	90° Elbow	Tube Side	Previous													Comments-->	OK
OD	6.625	Current	0.449	0.449	0.453	0.450	0.453	0.439	2014	0.449	0.439						
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY						0							
60	Piping	Baseline	0.419	0.419	0.418	0.418	0.425	0.441	2014	0.423	0.418	0.4320	0.0540	0.2116	2015	2034	
Shape	90° Elbow	Tube Side	Previous													Comments-->	OK
OD	6.625	Current	0.419	0.419	0.418	0.418	0.425	0.441	2014	0.423	0.418						
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY						0							



# ULTRASONIC CORROSION SURVEY

## Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162237	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: GAS/GAS EXCHANGER	Serial Number: 95261-AA	Inspector: MWS
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1320 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 1320 MAWT F: 151	Project #: C61129
	CRN: N1341.2	Vessel CA: 0.0630	Report Number: 29876

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
65	Piping	Baseline		0.386	0.386	0.384	0.384	0.387	0.382	2014	0.385	0.382	0.4320	0.0540	0.2116	2015	2034
Shape	90° Elbow	shell Side	Previous	Comments--> OK													
OD	6.625		Current	0.386	0.386	0.384	0.384	0.387	0.382	2014	0.385	0.382					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY						0							
70	Piping	Baseline		0.470	0.466	0.466	0.466	0.466	0.473	2014	0.468	0.466	0.4320	0.0540	0.2116	2015	2034
Shape	90° Elbow	shell Side	Previous	Comments--> OK													
OD	6.625		Current	0.470	0.466	0.466	0.466	0.466	0.473	2014	0.468	0.466					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY						0							
75	Piping	Baseline		0.360	0.352	0.364	0.364	0.364	0.364	2014	0.361	0.352	0.4320	0.0540	0.2116	2015	2034
Shape	45° Elbow	shell Side	Previous	Comments--> Caution													
OD	6.625		Current	0.360	0.352	0.364	0.364	0.364	0.364	2014	0.361	0.352					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY						0							
80	Piping	Baseline		0.432	0.432	0.450	0.450	0.456	0.419	2014	0.440	0.419	0.4320	0.0540	0.2116	2015	2034
Shape	90° Elbow	shell Side	Previous	Comments--> OK													
OD	6.625		Current	0.432	0.432	0.450	0.450	0.456	0.419	2014	0.440	0.419					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY						0							