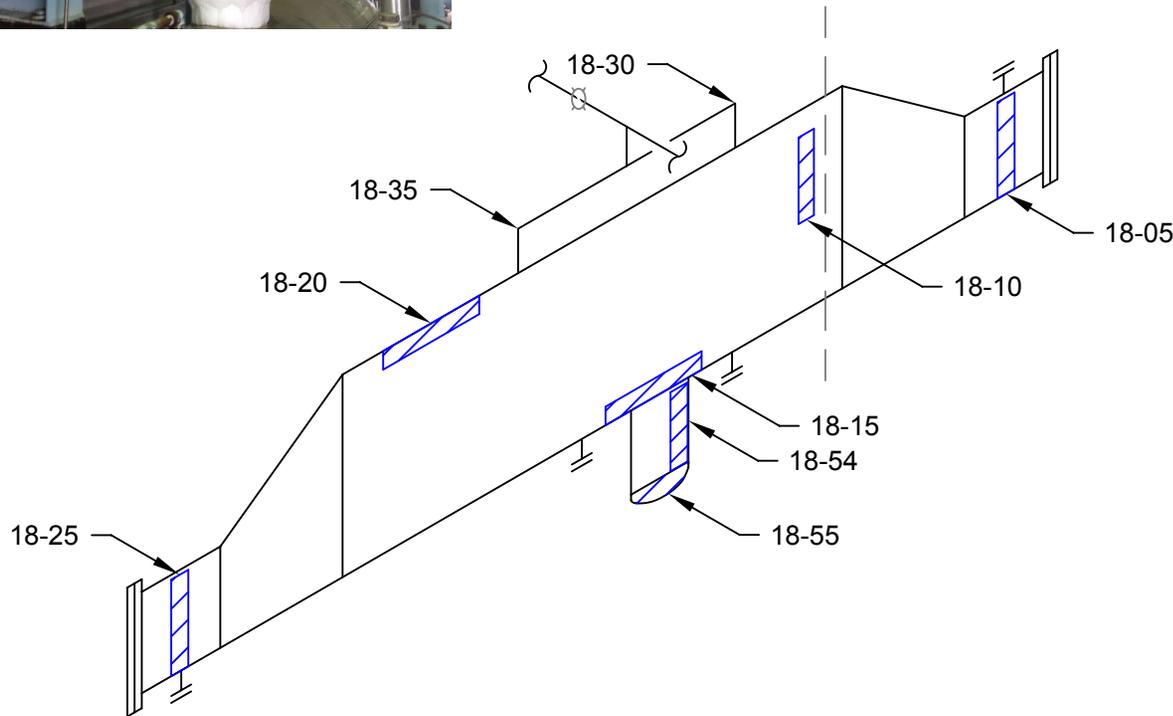


ITEM:

CHILLER

A3162220



COMMENTS:

PROJECT:
C61129



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: 7/21/14

DWG: 18

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 # : **A3162220**

CRN # : N1345.2

SERIAL # : 95261-AB

MANUFACTURER : PROPAK SYSTEMS

DATE BUILT : 1996

CLIENT ID / TAG : F-890

M.A.W.P : 250 PSI

M.A.W.T. : 151° F

JOINT EFFICIENCY/RT : RT 1

STRESS RELIEVED : NO

INSULATED : YES

MANWAY : NO

VESSEL SPECIFICATIONS

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	-	-	-	-
VESSEL SHELL	24"/12.75"	.375"/.750"	SA-516-70	.063"
BOOT HEAD	10.75"	.365"	SA-516-70	.063"
BOOT SHELL	-	-	-	-



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162220	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: CHILLER	Serial Number: 95261-AB	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 250 MAWT F: 151	Process: SOUR
Skid: PKG62777	Tag Number: F-890	Tube MAWP PSI: MAWT F:	Project #: C61129
	CRN: N1345.2	Vessel CA: 0.0630	Report Number: 26679

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	0.889	0.882	0.879	0.877	0.877	0.874	2013	0.880	0.874	0.7500	0.0630	0.0811	2015	2034	
Shape	Cylindrical	shell Side	Previous	0.889	0.882	0.879	0.877	0.877	0.874	2013	0.880	0.874	Comments-->	OK			
OD	12.75	Current	0.885	0.869	0.869	0.877	0.877	0.871	2014	0.875	0.869						
Spec.	VIII Div 1									ST Loss MPY	5						
Material	SA 516 - 70									LT Loss MPY	5						
10	Shell	Baseline	0.382	0.379	0.376	0.371	0.374	0.373	2013	0.376	0.371	0.3750	0.0630	0.1675	2015	2034	
Shape	Cylindrical	shell Side	Previous	0.382	0.379	0.376	0.371	0.374	0.373	2013	0.376	0.371	Comments-->	OK			
OD	24	Current	0.376	0.376	0.376	0.371	0.374	0.373	2014	0.374	0.371						
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 516 - 70									LT Loss MPY	0						
15	Shell	Baseline	0.371	0.371	0.370	0.370	0.370	0.369	2013	0.370	0.369	0.3750	0.0630	0.1675	2015	2034	
Shape	Cylindrical	shell Side	Previous	0.371	0.371	0.370	0.370	0.370	0.369	2013	0.370	0.369	Comments-->	OK			
OD	24	Current	0.371	0.371	0.370	0.370	0.370	0.369	2014	0.370	0.369						
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 516 - 70									LT Loss MPY	0						
20	Shell	Baseline	0.374	0.376	0.375	0.374	0.371	0.373	2013	0.374	0.371	0.3750	0.0630	0.1675	2015	2034	
Shape	Cylindrical	shell Side	Previous	0.374	0.376	0.375	0.374	0.371	0.373	2013	0.374	0.371	Comments-->	OK			
OD	24	Current	0.374	0.376	0.375	0.374	0.371	0.373	2014	0.374	0.371						
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 516 - 70									LT Loss MPY	0						



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162220	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: CHILLER	Serial Number: 95261-AB	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 250 MAWT F: 151	Process: SOUR
Skid: PKG62777	Tag Number: F-890	Tube MAWP PSI: MAWT F:	Project #: C61129
	CRN: N1345.2	Vessel CA: 0.0630	Report Number: 26679

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		0.895	0.892	0.880	0.906	0.904	0.882	2013	0.893	0.880	0.7500	0.0630	0.0811	2015	2034
Shape	Cylindrical	shell Side	Previous	0.895	0.892	0.880	0.906	0.904	0.882	2013	0.893	0.880	Comments-->		OK		
OD	12.75		Current	0.887	0.892	0.880	0.889	0.880	0.880	2014	0.885	0.880					
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 516 - 70									LT Loss MPY	0						
30	Nozzle	Baseline		0.435	0.434	0.383	0.435	0.431	0.430	2013	0.425	0.383	0.4320	0.0630	0.0486	2015	2034
Shape	90° Elbow	shell Side	Previous	0.435	0.434	0.383	0.435	0.431	0.430	2013	0.425	0.383	Comments-->		OK		
OD	6.625		Current	0.430	0.426	0.383	0.429	0.429	0.430	2014	0.421	0.383					
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 234 - WPB									LT Loss MPY	0						
35	Nozzle	Baseline		0.422	0.421	0.420	0.428	0.420	0.417	2013	0.421	0.417	0.4320	0.0630	0.0486	2015	2034
Shape	90° Elbow	shell Side	Previous	0.422	0.421	0.420	0.428	0.420	0.417	2013	0.421	0.417	Comments-->		OK		
OD	6.625		Current	0.422	0.421	0.420	0.428	0.420	0.417	2014	0.421	0.417					
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 234 - WPB									LT Loss MPY	0						
40	Nozzle	Baseline		0.218	0.220	0.221	0.218	0.215	0.217	2013	0.218	0.215	0.2160	0.0630	0.0259	2015	2034
Shape	90° Elbow	shell Side	Previous	0.218	0.220	0.221	0.218	0.215	0.217	2013	0.218	0.215	Comments-->		OK		
OD	3.5		Current	0.218	0.220	0.221	0.218	0.215	0.217	2014	0.218	0.215					
Spec.	VIII Div 1									ST Loss MPY	0						
Material	SA 234 - WPB									LT Loss MPY	0						



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3162220	Manufacturer: PROPAK SYSTEMS	Survey Date: 7/20/2014
District Unit: NORTHERN - AB	Vessel Name: CHILLER	Serial Number: 95261-AB	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 250 MAWT F: 151	Process: SOUR
Skid: PKG62777	Tag Number: F-890	Tube MAWP PSI: MAWT F:	Project #: C61129
	CRN: N1345.2	Vessel CA: 0.0630	Report Number: 26679

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		0.235	0.233	0.277	0.233	0.223	0.234	2013	0.239	0.223	0.2160	0.0630	0.0259	2015	2034
Shape	90° Elbow	shell Side	Previous	0.235	0.233	0.277	0.233	0.223	0.234	2013	0.239	0.223	Comments-->	OK			
OD	3.5		Current	0.232	0.232	0.237	0.233	0.223	0.234	2014	0.232	0.223					
Spec.	VIII Div 1										ST Loss MPY	0					
Material	SA 234 - WPB										LT Loss MPY	0					
50	Nozzle	Baseline		0.251	0.245	0.251	0.243	0.243	0.233	2013	0.244	0.233	0.2160	0.0630	0.0259	2015	2030
Shape	90° Elbow	shell Side	Previous	0.251	0.245	0.251	0.243	0.243	0.233	2013	0.244	0.233	Comments-->	OK			
OD	3.5		Current	0.227	0.227	0.221	0.221	0.224	0.223	2014	0.224	0.221					
Spec.	VIII Div 1										ST Loss MPY	12					
Material	SA 234 - WPB										LT Loss MPY	12					
54	Boot	Shell	Baseline	0.393	0.393	0.393	0.394	0.394	0.394	2014	0.394	0.393	0.3650	0.0630	0.0846	2015	2034
Shape	Cylindrical	shell Side	Previous										Comments-->	OK			
OD	10.75		Current	0.393	0.393	0.393	0.394	0.394	0.394	2014	0.394	0.393	BASELINE JULY 20, 2014				
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 106 - B										LT Loss MPY	0					
55	Boot	Head	Baseline	0.348	0.348	0.345	0.343	0.341	0.340	2013	0.344	0.340	0.3650	0.0630	0.0717	2015	2034
Shape	Ellipsoidal	shell Side	Previous	0.348	0.348	0.345	0.343	0.341	0.340	2013	0.344	0.340	Comments-->	OK			
OD	10.75		Current	0.347	0.347	0.338	0.338	0.341	0.338	2014	0.342	0.338					
Spec.	VIII Div 1										ST Loss MPY	2					
Material	SA 516 - 70										LT Loss MPY	2					