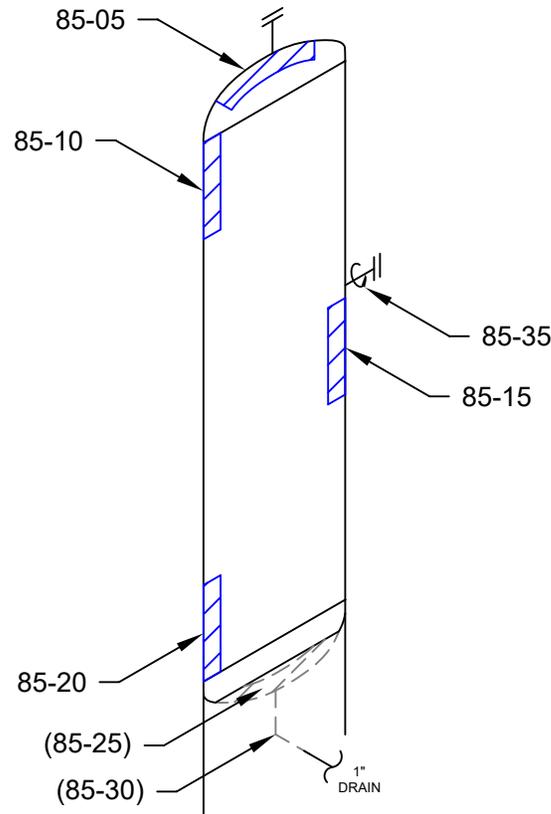


ITEM:

FUEL GAS SCRUBBER

V110777



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:

JACOB SULLIVAN
SNT LEVEL I
SNT-TC-1A

DATE: 02/10/17

DWG: 85

CLIENT: LONG RUN EXPLORATION

LSD: 03-26-074-01-W6M

INSPECTOR : DUANE PAETKAU

LOCATION : PUSKWASKAU

DISTRICT UNIT : NORTHERN - AB

BLDG/SKID : PKG62777

PROCESS : SWEET

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 # : V110777

CRN # : M3640.2

SERIAL # : 95261-AF

MANUFACTURER : PROPAK

DATE BUILT : 1996

CLIENT ID / TAG : -

M.A.W.P : 250 PSI

M.A.W.T. : 151° F

JOINT EFFICIENCY/RT : RT 3

STRESS RELIEVED : NO

INSULATED : NO

MANWAY : NO

VESSEL SPECIFICATIONS

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	12.75"	.3125"	SA-516-70	.063"
VESSEL SHELL	12.75"	.3750"	SA-106-B	.063"
BOOT HEAD	-	-	-	-
BOOT SHELL	-	-	-	-

COMMENTS:

PROJECT:
C42209



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: V110777	Manufacturer: PROPAK	Survey Date: 2/10/2017
District Unit: NORTHERN - AB	Vessel Name: FUEL GAS SCRUBBER	Serial Number: 95261-AF	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 250 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C42209
	CRN: M3640.2	Vessel CA: 0.0630	Report Number: 42783

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
05	Top	Head	Baseline	0.404	0.401	0.401	0.403	0.407	0.408	02/10/17	0.404	0.401	0.3125	0.0630	0.0867	2018	2037
Shape	Ellipsoidal	Shell Side	Previous	Comments--> OK													
OD	12.75		Current	0.404	0.401	0.401	0.403	0.407	0.408	02/10/17	0.404	0.401					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY							0						
10	Upper	Shell	Baseline	0.399	0.388	0.373	0.377	0.375	0.373	02/10/17	0.381	0.373	0.3750	0.0630	0.1013	2018	2037
Shape	Cylindrical	Shell Side	Previous	Comments--> OK													
OD	12.75		Current	0.399	0.388	0.373	0.377	0.375	0.373	02/10/17	0.381	0.373					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY							0						
15	Mid	Shell	Baseline	0.407	0.420	0.424	0.428	0.420	0.408	02/10/17	0.418	0.407	0.3750	0.0630	0.1013	2018	2037
Shape	Cylindrical	Shell Side	Previous	Comments--> OK													
OD	12.75		Current	0.407	0.420	0.424	0.428	0.420	0.408	02/10/17	0.418	0.407					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY							0						
20	Lower	Shell	Baseline	0.407	0.405	0.399	0.398	0.386	0.392	02/10/17	0.398	0.386	0.3750	0.0630	0.1013	2018	2037
Shape	Cylindrical	Shell Side	Previous	Comments--> OK													
OD	12.75		Current	0.407	0.405	0.399	0.398	0.386	0.392	02/10/17	0.398	0.386					
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: V110777	Manufacturer: PROPAK	Survey Date: 2/10/2017
District Unit: NORTHERN - AB	Vessel Name: FUEL GAS SCRUBBER	Serial Number: 95261-AF	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 250 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C42209
	CRN: M3640.2	Vessel CA: 0.0630	Report Number: 42783

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
25	Bottom	Head	Baseline	0.370	0.371	0.368	0.364	0.371	0.364	02/10/17	0.368	0.364	0.3125	0.0630	0.0867	2018	2037
Shape	Ellipsoidal	Shell Side	Previous	Comments--> OK													
OD	12.75		Current	0.370	0.371	0.368	0.364	0.371	0.364	02/10/17	0.368	0.364					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 516 - 70			LT Loss MPY							0						
30	Drain	Nozzle	Baseline	0.238	0.236	0.237	0.239	0.241	0.238	02/10/17	0.238	0.236	0.2500	0.0630	0.0069	2018	2037
Shape	90° Elbow	Shell Side	Previous	Comments--> OK													
OD	1.315		Current	0.238	0.236	0.237	0.239	0.241	0.238	02/10/17	0.238	0.236					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 234 - WPB			LT Loss MPY							1						
35		Nozzle	Baseline	0.210	0.215	0.202	0.200	0.207	0.205	02/10/17	0.207	0.200	0.2180	0.0630	0.0164	2018	2037
Shape	Cylindrical	Shell Side	Previous	Comments--> OK													
OD	2.375		Current	0.210	0.215	0.202	0.200	0.207	0.205	02/10/17	0.207	0.200					
Spec.	VIII Div 1			ST Loss MPY													
Material	SA 106 - B			LT Loss MPY							1						
40		Piping	Baseline	0.158	0.152	0.193	0.153	0.143	0.145	02/10/17	0.157	0.143	0.1540	0.0192	0.0148	2018	2037
Shape	90° Elbow	Shell Side	Previous	Comments--> OK													
OD	2.375		Current	0.158	0.152	0.193	0.153	0.143	0.145	02/10/17	0.157	0.143					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY							1						



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: V110777	Manufacturer: PROPAK	Survey Date: 2/10/2017
District Unit: NORTHERN - AB	Vessel Name: FUEL GAS SCRUBBER	Serial Number: 95261-AF	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 250 MAWT F: 151	Process: SWEET
Skid: PKG62777	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C42209
	CRN: M3640.2	Vessel CA: 0.0630	Report Number: 42783

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
45	Piping	Baseline		0.150	0.152	0.151	0.154	0.153	0.150	02/10/17	0.152	0.150	0.1540	0.0192	0.0148	2018	2037
Shape	90° Elbow	Shell Side	Previous	Comments--> OK													
OD	2.375		Current	0.150	0.152	0.151	0.154	0.153	0.150	02/10/17	0.152	0.150					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY							0						
50	Piping	Baseline		0.140	0.140	0.139	0.148	0.136	0.139	02/10/17	0.140	0.136	0.1540	0.0192	0.0148	2018	2037
Shape	90° Elbow	Shell Side	Previous	Comments--> OK													
OD	2.375		Current	0.140	0.140	0.139	0.148	0.136	0.139	02/10/17	0.140	0.136					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY							1						
55	Piping	Baseline		0.152	0.149	0.146	0.145	0.142	0.143	02/10/17	0.146	0.142	0.1540	0.0192	0.0148	2018	2037
Shape	90° Elbow	Shell Side	Previous	Comments--> OK													
OD	2.375		Current	0.152	0.149	0.146	0.145	0.142	0.143	02/10/17	0.146	0.142					
Spec.	B31.3			ST Loss MPY													
Material	A 234 - WPB			LT Loss MPY							1						