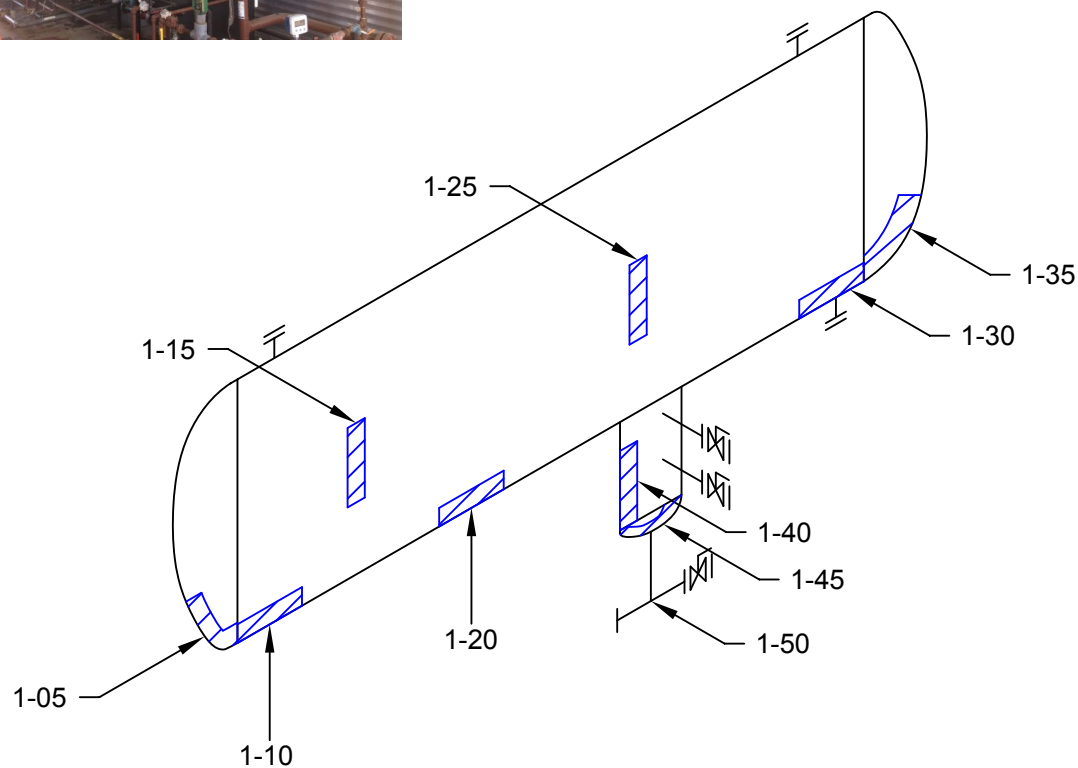


ITEM:

INLET SEPARATOR

A3174858



**MOUNTAIN WEST
SERVICES LTD.**

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: 8/06/13

DWG: 1

CLIENT: LONG RUN EXPLORATION

LSD: 03-26-074-01-W6M

INSPECTOR : DUANE PAETKAU

LOCATION : PUSKWASKAU

DISTRICT UNIT : NORTHERN AB

BLDG/SKID : PKG52774

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 # : A3174858

CRN # : N1538.2

SERIAL # : 5828-20

MANUFACTURER : PRESSON

DATE BUILT : 1996

CLIENT ID / TAG : V-100

M.A.W.P : 1400 PSI

M.A.W.T. : 150° F

JOINT EFFICIENCY/RT : RT 1

STRESS RELIEVED : YES

INSULATED : NO

MANWAY : YES

VESSEL SPECIFICATIONS

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	48"	2.125"	SA-516-70	.125"
VESSEL SHELL	48"	2.250"	SA-516-70	.125"
BOOT HEAD	20"	1.500"	SA-516-70	.125"
BOOT SHELL	20"	1.500"	SA-516-70	.125"

COMMENTS:

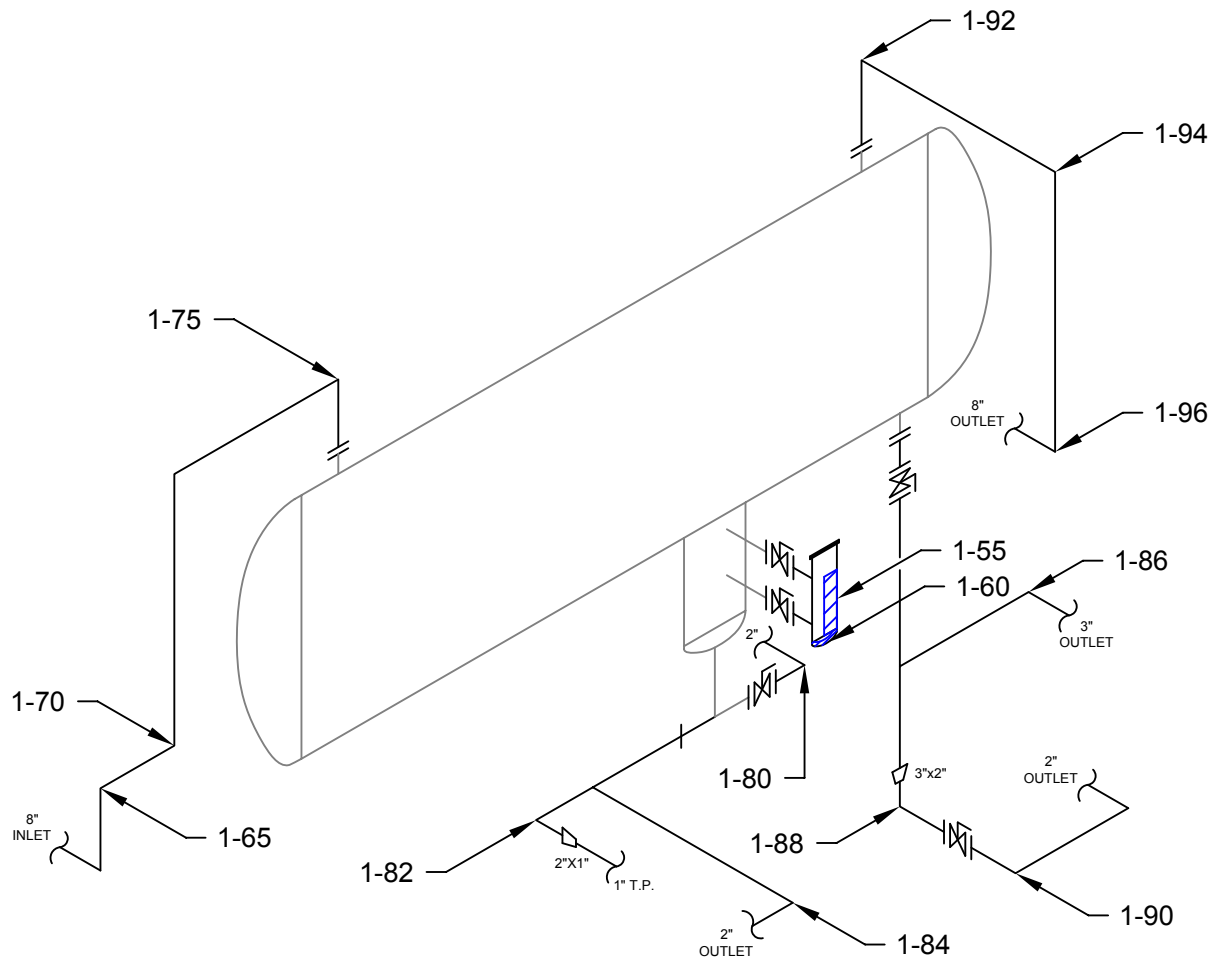
PROJECT:

C61017

ITEM:

INLET SEPARATOR - PIPING

A3174858



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: 8/06/13

DWG # 1A

CLIENT: LONG RUN EXPLORATION

LSD: 03-26-074-01-W6M

INSPECTOR : DUANE PAETKAU

LOCATION : PUSKWASKAU

DISTRICT UNIT : NORTHERN AB

BLDG/SKID : PKG52774

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
1-55	4.50"	XS	.337"	1400 PSI	150°F	-
1-60	"	"	"	"	"	"
1-65	8.625"	XS	.500"	"	"	"
1-70	"	"	"	"	"	"
1-75	"	"	"	"	"	"
1-80	2.375"	XS	.218"	"	"	"
1-82	"	"	"	"	"	"
1-84	"	"	"	"	"	"
1-86	3.50"	XS	.300"	"	"	"
1-88	2.375"	XS	.218"	"	"	"
1-90	"	"	"	"	"	"
1-92	8.625"	XS	.500"	"	"	"
1-94	"	"	"	"	"	"
1-96	"	"	"	"	"	"

COMMENTS:

PROJECT:

C61017



Survey Date: 8/6/2013
Inspector: DUANE PAETKAU
Process: SOUR
Project #: C61017
Report Number: 26704

Survey Date: 8/6/2013



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD:	03-26-074-01W6	Vessel Number:	3174858	Manufacturer:	PRESSON	Survey Date:	8/6/2013
District Unit:	NORTHERN - AB	Vessel Name:	INLET SEPARATOR	Serial Number:	5828-20	Inspector:	DUANE PAETKAU
Location:	PUSKWASKAU	Year Built:	1996	Shell MAWP PSI:	1400	MAWT F:	150
Skid:	PKG52774	Tag Number:	V-100	Tube MAWP PSI:	MAWT F:	Project #:	C61017
		CRN:	N1538.2	Vessel CA:	0.1250	Report Number:	26704

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	2.279	2.281	2.282	2.280	2.279	2.277	2013	2.280	2.277	2.2500	0.1250	1.8277	2014	2033
Shape	Cylindrical	shell Side	Previous										Comments-->		OK		
OD	48		Current	2.279	2.281	2.282	2.280	2.279	2.277	2013	2.280	2.277					
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 516 - 70										LT Loss MPY		0				
30		Shell	Baseline	2.268	2.266	2.265	2.272	2.274	2.278	2013	2.271	2.265	2.2500	0.1250	1.8277	2014	2033
Shape	Cylindrical	shell Side	Previous										Comments-->		OK		
OD	48		Current	2.268	2.266	2.265	2.272	2.274	2.278	2013	2.271	2.265					
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 516 - 70										LT Loss MPY		0				
35		Head	Baseline	2.234	2.259	2.251	2.225	2.228	2.225	2013	2.237	2.225	2.1250	0.1250	1.7641	2014	2033
Shape	Ellipsoidal	shell Side	Previous										Comments-->		OK		
OD	48		Current	2.234	2.259	2.251	2.225	2.228	2.225	2013	2.237	2.225					
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 516 - 70										LT Loss MPY		0				
40	Boot	Shell	Baseline	1.514	1.518	1.517	1.516	1.519	1.515	2013	1.517	1.514	1.5000	0.1250	0.7143	2014	2033
Shape	Cylindrical	shell Side	Previous										Comments-->		OK		
OD	20		Current	1.514	1.518	1.517	1.516	1.519	1.515	2013	1.517	1.514					
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 516 - 70										LT Loss MPY		0				



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 03-26-074-01W6	Vessel Number: 3174858	Manufacturer: PRESSON	Survey Date: 8/6/2013
District Unit: NORTHERN - AB	Vessel Name: INLET SEPARATOR	Serial Number: 5828-20	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1400 MAWT F: 150	Process: SOUR
Skid: PKG52774	Tag Number: V-100	Tube MAWP PSI: MAWT F:	Project #: C61017
	CRN: N1538.2	Vessel CA: 0.1250	Report Number: 26704

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
45	Boot	Head	Baseline	1.205	1.206	1.201	1.202	1.211	1.209	2013	1.206	1.201	1.5000	0.1250	0.6855	2014	2033
Shape	Ellipsoidal	shell Side	Previous													Comments--> Caution	
OD	20		Current	1.205	1.206	1.201	1.202	1.211	1.209	2013	1.206	1.201					
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 516 - 70										LT Loss MPY		0				
50	Nozzle		Baseline	0.745	0.571	0.554	0.661	0.569	0.602	2013	0.617	0.554	0.4360	0.1250	0.0745	2014	2033
Shape	Tee	shell Side	Previous													Comments--> OK	
OD	2.375		Current	0.745	0.571	0.554	0.661	0.569	0.602	2013	0.617	0.554					
Spec.	VIII Div 1										ST Loss MPY						
Material	SA 234 - WPB										LT Loss MPY		0				
55	Piping		Baseline	0.333	0.337	0.322	0.317	0.320	0.328	2013	0.326	0.317	0.3370	0.0421	0.1522	2014	2033
Shape	90° Elbow	shell Side	Previous													Comments--> OK	
OD	4.5		Current	0.333	0.337	0.322	0.317	0.320	0.328	2013	0.326	0.317					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
60	Piping		Baseline	0.270	0.319	0.326	0.314	0.314	0.316	2013	0.310	0.270	0.3370	0.0421	0.1522	2014	2033
Shape	90° Elbow	shell Side	Previous													Comments--> Caution	
OD	4.5		Current	0.270	0.319	0.326	0.314	0.314	0.316	2013	0.310	0.270					
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: 3174858	Manufacturer: PRESSON	Survey Date: 8/6/2013
District Unit: NORTHERN - AB	Vessel Name: INLET SEPARATOR	Serial Number: 5828-20	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1400 MAWT F: 150	Process: SOUR
Skid: PKG52774	Tag Number: V-100	Tube MAWP PSI: MAWT F:	Project #: C61017
	CRN: N1538.2	Vessel CA: 0.1250	Report Number: 26704

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		0.517	0.517	0.515	0.512	0.511	0.515	2013	0.515	0.511	0.5000	0.0625	0.2917	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	8.625		Current	0.517	0.517	0.515	0.512	0.511	0.515	2013	0.515	0.511					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
70	Piping	Baseline		0.545	0.545	0.549	0.550	0.553	0.550	2013	0.549	0.545	0.5000	0.0625	0.2917	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	8.625		Current	0.545	0.545	0.549	0.550	0.553	0.550	2013	0.549	0.545					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
75	Piping	Baseline		0.566	0.568	0.565	0.560	0.563	0.560	2013	0.564	0.560	0.5000	0.0625	0.2917	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	8.625		Current	0.566	0.568	0.565	0.560	0.563	0.560	2013	0.564	0.560					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
80	Piping	Baseline		0.195	0.194	0.192	0.194	0.191	0.191	2013	0.193	0.191	0.2180	0.0272	0.0803	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	2.375		Current	0.195	0.194	0.192	0.194	0.191	0.191	2013	0.193	0.191					
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: 3174858	Manufacturer: PRESSON	Survey Date: 8/6/2013
District Unit: NORTHERN - AB	Vessel Name: INLET SEPARATOR	Serial Number: 5828-20	Inspector: DUANE PAETKAU
Location: PUSKWASKAU	Year Built: 1996	Shell MAWP PSI: 1400 MAWT F: 150	Process: SOUR
Skid: PKG52774	Tag Number: V-100	Tube MAWP PSI: MAWT F:	Project #: C61017
	CRN: N1538.2	Vessel CA: 0.1250	Report Number: 26704

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
82	Piping	Baseline		0.191	0.196	0.198	0.200	0.192	0.192	2013	0.195	0.191	0.2180	0.0272	0.0803	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	2.375		Current	0.191	0.196	0.198	0.200	0.192	0.192	2013	0.195	0.191					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
84	Piping	Baseline		0.196	0.191	0.196	0.192	0.192	0.191	2013	0.193	0.191	0.2180	0.0272	0.0803	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	2.375		Current	0.196	0.191	0.196	0.192	0.192	0.191	2013	0.193	0.191					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
86	Piping	Baseline		0.299	0.306	0.296	0.293	0.294	0.288	2013	0.296	0.288	0.3000	0.0375	0.1184	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	3.5		Current	0.299	0.306	0.296	0.293	0.294	0.288	2013	0.296	0.288					
Spec.	B31.3										ST Loss MPY						
Material	A 234 - WPB										LT Loss MPY		0				
88	Piping	Baseline		0.205	0.200	0.199	0.197	0.198	0.209	2013	0.201	0.197	0.2180	0.0272	0.0803	2014	2033
Shape	90° Elbow	shell Side	Previous										Comments-->		OK		
OD	2.375		Current	0.205	0.200	0.199	0.197	0.198	0.209	2013	0.201	0.197					
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
District Unit: NORTHERN - AB
Location: PUSKWASKAU
Skid: PKG52774

Vessel Number:	3174858
Vessel Name:	INLET SEPARATOR
Year Built:	1996
Tag Number:	V-100
CRN:	N1538.2

Manufacturer: PRESSON
Serial Number: 5828-20
Shell MAWP PSI: 1400 MAWT F: 150
Tube MAWP PSI: MAWT F:
Vessel CA: 0.1250

Survey Date: 8/6/2013
Inspector: DUANE PAETKAU
Process: SOUR
Project #: C61017
Report Number: 26704

Inspection Data																			
Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date		
				1	2	3	4	5	6										
90	Shape 90° Elbow OD Spec. Material	Piping shell Side	Baseline	0.204	0.200	0.199	0.198	0.199	0.199	2013	0.200	0.198	0.2180	0.0272	0.0803	2014	2033		
Previous														Comments-->	OK				
Current			0.204	0.200	0.199	0.198	0.199	0.199	2013	0.200	0.198								
ST Loss MPY																			
LT Loss MPY											0								
92	Shape 90° Elbow OD Spec. Material	Piping shell Side	Baseline	0.532	0.532	0.535	0.542	0.550	0.548	2013	0.540	0.532	0.5000	0.0625	0.2917	2014	2033		
Previous														Comments-->	OK				
Current			0.532	0.532	0.535	0.542	0.550	0.548	2013	0.540	0.532								
ST Loss MPY																			
LT Loss MPY											0								
94	Shape 90° Elbow OD Spec. Material	Piping shell Side	Baseline	0.519	0.518	0.523	0.525	0.523	0.522	2013	0.522	0.518	0.5000	0.0625	0.2917	2014	2033		
Previous														Comments-->	OK				
Current			0.519	0.518	0.523	0.525	0.523	0.522	2013	0.522	0.518								
ST Loss MPY																			
LT Loss MPY											0								
96	Shape 90° Elbow OD Spec. Material	Piping shell Side	Baseline	0.522	0.527	0.526	0.524	0.526	0.526	2013	0.525	0.522	0.5000	0.0625	0.2917	2014	2033		
Previous														Comments-->	OK				
Current			0.522	0.527	0.526	0.524	0.526	0.526	2013	0.525	0.522								
ST Loss MPY																			
LT Loss MPY											0								