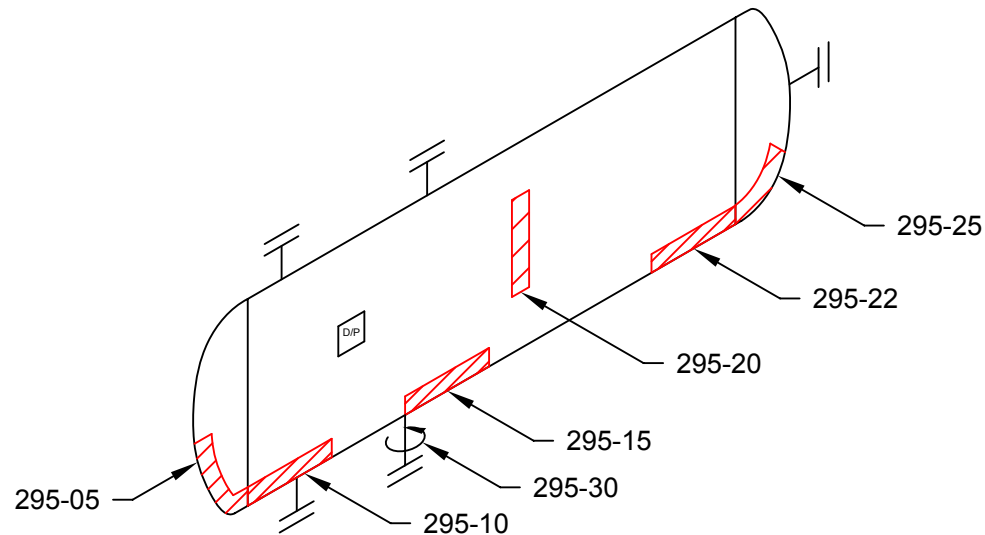


ITEM:

TEST SEPARATOR

A0139682



STETTLER, AB (403) 742-4868
 LACOMBE, AB (403) 782-7855
 BROOKS, AB (403) 501-8029
 GRANDE PRAIRIE, AB (866) 422-9732

TECHNICIAN:

WARREN FAST
 SNT LEVEL II
 CGSB 48.9712
 LEVEL II # 10395

DATE: 2/23/12

DWG: 295

CLIENT: CNRL

LSD: 08-34-073-10-W6M

INSPECTOR : AJMAL KHAN

LOCATION : VALHALLA

DISTRICT UNIT : WEST COUNTY

BLDG/SKID : -

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 # : A0139682

CRN # : D5372.2

SERIAL # : 80.147.01

MANUFACTURER : RML

DATE BUILT : 1980

CLIENT ID / TAG : -

M.A.W.P : 665 PSI

M.A.W.T. : 100° F

JOINT EFFICIENCY/RT : RT 2

STRESS RELIEVED : -

INSULATED : NO

MANWAY : NO

VESSEL SPECIFICATIONS

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	30"	.675"	SA-516-70	.125"
VESSEL SHELL	30"	.750"	SA-516-70	.125"
BOOT HEAD	-	-	-	-
BOOT SHELL	-	-	-	-

COMMENTS:

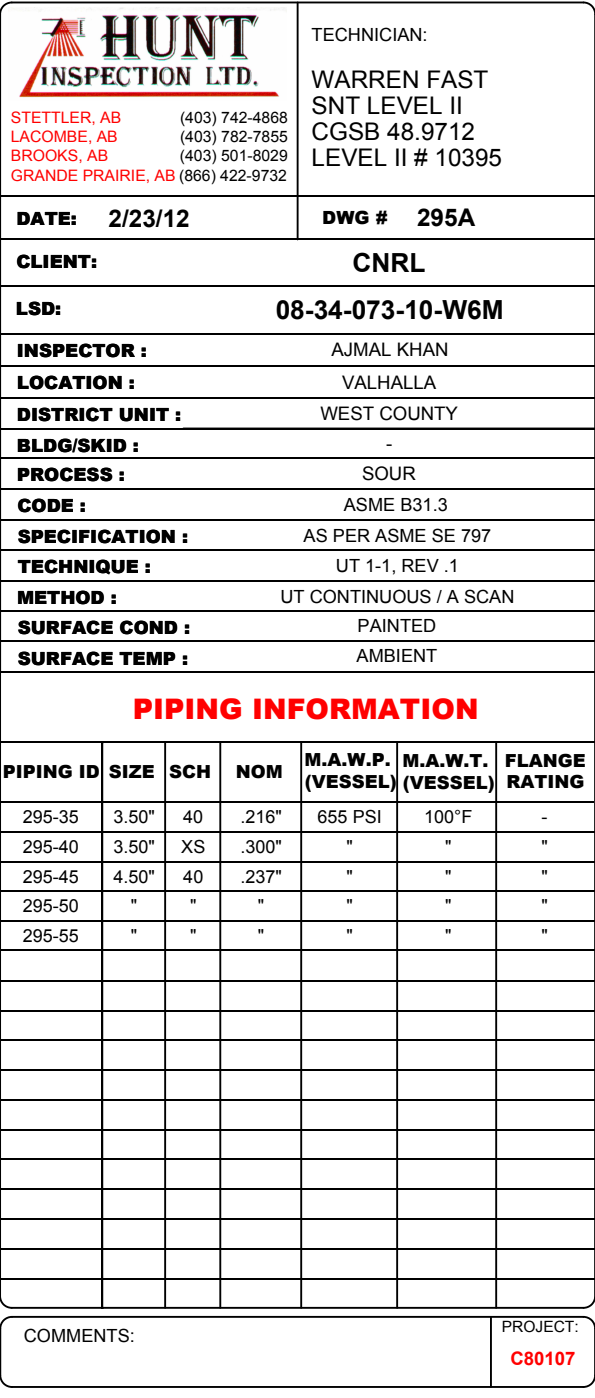
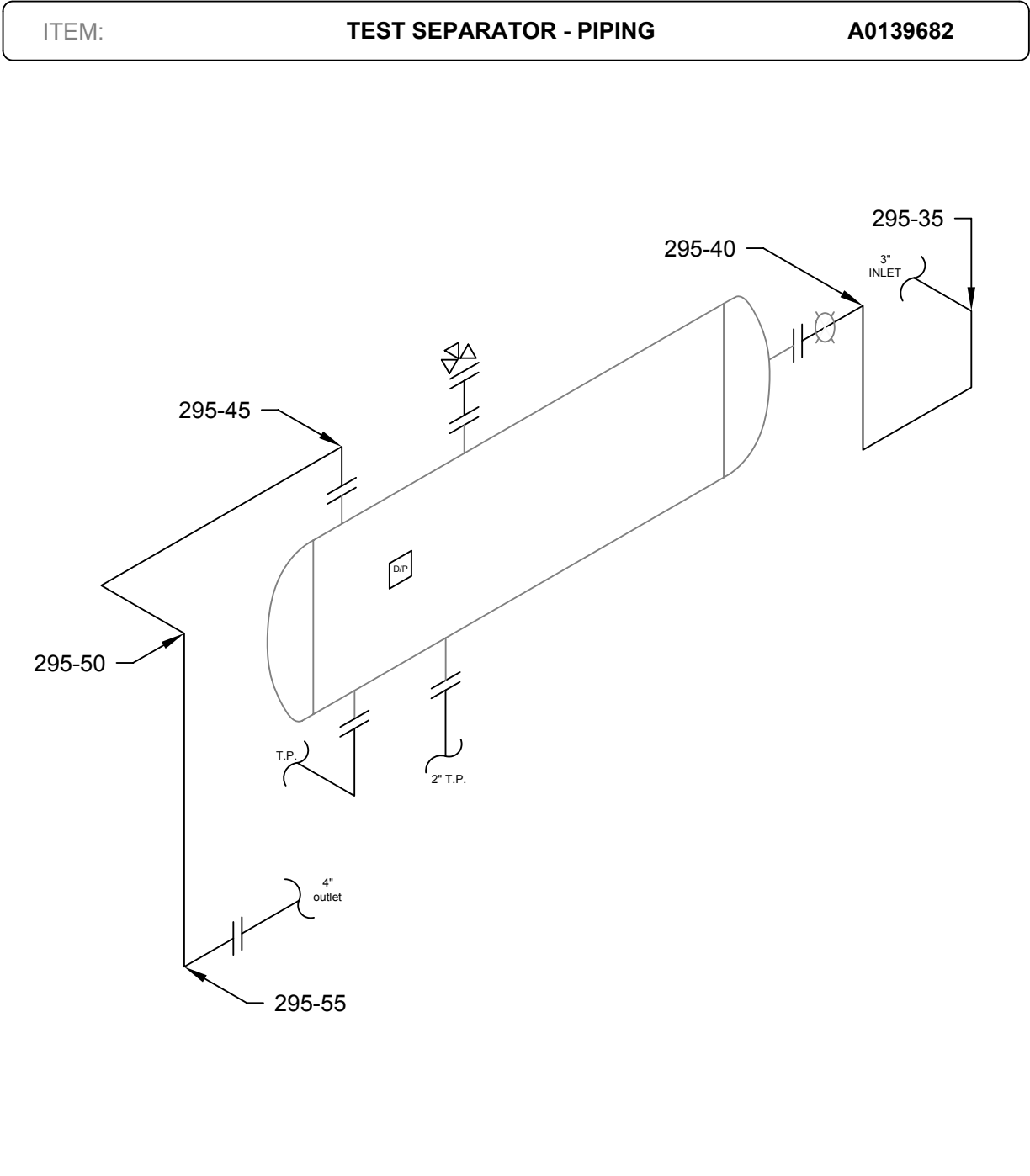
PROJECT:

C80107

ITEM: **TEST SEPARATOR - PIPING** **A0139682**

ITEM: **TEST SEPARATOR - PIPING** **A0139682**

ITEM: **TEST SEPARATOR - PIPING** **A0139682**

[illegible][illegible]

DATE: 2/23/12	DWG # 295A
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DATE: 2/23/12	DWG # 295A
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CLIENT: CNRL

CLIENT: CNRL

LSD:	08-34-073-10-W6M
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LSD:	08-34-073-10-W6M
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INSPECTOR :	AJMAL KHAN
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INSPECTOR :	AJMAL KHAN
--------------------	------------

LOCATION :	VALHALLA
DISTRICT UNIT :	WEST COUNTY

LOCATION :	VALHALLA
DISTRICT UNIT :	WEST COUNTY

BLDG/SKID :	-
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BLDG/SKID :	-
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PROCESS :	SOUR
CODE :	ASME B31.3

PROCESS :	SOUR
CODE :	ASME B31.3

SPECIFICATION :	AS PER ASME SE 797
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SPECIFICATION :	AS PER ASME SE 797
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TECHNIQUE :	UT 1-1, REV .1
METHOD :	UT CONTINUOUS / A SCAN

TECHNIQUE :	UT 1-1, REV .1
METHOD :	UT CONTINUOUS / A SCAN

SURFACE COND :	PAINTED
	MAINTENANCE

SURFACE COND :	PAINTED
	MAINTENANCE

SURFACE TEMP :	AMBIENT

SURFACE TEMP :	AMBIENT

PIPING INFORMATION

PIPING INFORMATION

PIPING ID	SIZE	SCH	NOM	M.A.W.P. (VESSEL)	M.A.W.T. (VESSEL)	FLANGE RATING
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PIPING ID	SIZE	SCH	NOM	M.A.W.P. (VESSEL)	M.A.W.T. (VESSEL)	FLANGE RATING
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295-35	3.50"	40	.216"	655 PSI	100°F	-
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[illegible]

COMMENTS:	PROJECT: C80107
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COMMENTS:	PROJECT: C80107
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COMMENTS:	PROJECT: C80107
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ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 08-34-073-10W6 Dwg: 295 Vessel Number: A0139682 Manufacturer: RML Survey Date: 2/23/12
District Unit: WEST COUNTY Vessel Name: TEST SEPARATOR Serial Number: 80.147.01 Inspector: AJMAL KHAN
Location: VALHALLA Year Built: 1980 Shell MAWP PSI: 665 MAWT F: 100 Process: SOUR
Skid: - Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C80107
CRN: D5372.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
295-05		Head	Baseline	0.727	0.725	0.729	0.734	0.734	0.734	2012	0.731	0.725	0.6750	0.1250	0.5464	2013	2032
Shape	Ellipsoidal	Shell Side	Previous										Comments-->				
OD	30		Current	0.727	0.725	0.729	0.734	0.734	0.734	2012	0.731	0.725					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 516 - 70												LT Loss MPY	0.000			
295-10		Shell	Baseline	0.763	0.762	0.762	0.759	0.760	0.760	2012	0.761	0.759	0.7500	0.1250	0.5541	2013	2032
Shape	Cylindrical	Shell Side	Previous										Comments-->				
OD	30		Current	0.763	0.762	0.762	0.759	0.760	0.760	2012	0.761	0.759					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 516 - 70												LT Loss MPY	0.000			
295-15		Shell	Baseline	0.757	0.738	0.731	0.743	0.754	0.744	2012	0.745	0.731	0.7500	0.1250	0.5541	2013	2032
Shape	Cylindrical	Shell Side	Previous										Comments-->				
OD	30		Current	0.757	0.738	0.731	0.743	0.754	0.744	2012	0.745	0.731					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 516 - 70												LT Loss MPY	0.000			
295-20		Shell	Baseline	0.774	0.777	0.773	0.776	0.773	0.771	2012	0.774	0.771	0.7500	0.1250	0.5541	2013	2032
Shape	Cylindrical	Shell Side	Previous										Comments-->				
OD	30		Current	0.774	0.777	0.773	0.776	0.773	0.771	2012	0.774	0.771					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 516 - 70												LT Loss MPY	0.000			



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 08-34-073-10W6 Dwg: 295 Vessel Number: A0139682 Manufacturer: RML Survey Date: 2/23/12
District Unit: WEST COUNTY Vessel Name: TEST SEPARATOR Serial Number: 80.147.01 Inspector: AJMAL KHAN
Location: VALHALLA Year Built: 1980 Shell MAWP PSI: 665 MAWT F: 100 Process: SOUR
Skid: - Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C80107
CRN: D5372.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
295-22		Shell	Baseline	0.748	0.759	0.750	0.752	0.756	0.759	2012	0.754	0.748	0.7500	0.1250	0.5541	2013	2032
Shape	Cylindrical	Shell Side	Previous										Comments-->				
OD	30		Current	0.748	0.759	0.750	0.752	0.756	0.759	2012	0.754	0.748					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 516 - 70												LT Loss MPY	0.000			
295-25		Head	Baseline	0.739	0.740	0.737	0.748	0.743	0.749	2012	0.743	0.737	0.6750	0.1250	0.5464	2013	2032
Shape	Ellipsoidal	Shell Side	Previous										Comments-->				
OD	30		Current	0.739	0.740	0.737	0.748	0.743	0.749	2012	0.743	0.737					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 516 - 70												LT Loss MPY	0.000			
295-30		Nozzle	Baseline	0.374	0.379	0.383	0.362	0.368	0.371	2012	0.373	0.362	0.3430	0.1250	0.0386	2013	2032
Shape	Cylindrical	Shell Side	Previous										Comments-->				
OD	2.375		Current	0.374	0.379	0.383	0.362	0.368	0.371	2012	0.373	0.362					
Spec.	VIII Div 1												ST Loss MPY				
Material	SA 106 - B												LT Loss MPY	0.000			
295-35		Piping	Baseline	0.231	0.231	0.208	0.216	0.215	0.211	2012	0.219	0.208	0.2160	0.0270	0.0572	2013	2032
Shape	90° Elbow	Shell Side	Previous										Comments-->				
OD	3.5		Current	0.231	0.231	0.208	0.216	0.215	0.211	2012	0.219	0.208					
Spec.	B31.3												ST Loss MPY				
Material	A 234 - WPB												LT Loss MPY	0.000			



ULTRASONIC CORROSION SURVEY

Survey Name: CNRL

LSD: 08-34-073-10W6 Dwg: 295 Vessel Number: A0139682 Manufacturer: RML Survey Date: 2/23/12
District Unit: WEST COUNTY Vessel Name: TEST SEPARATOR Serial Number: 80.147.01 Inspector: AJMAL KHAN
Location: VALHALLA Year Built: 1980 Shell MAWP PSI: 665 MAWT F: 100 Process: SOUR
Skid: - Tag Number: - Tube MAWP PSI: 0 MAWT F: 0 Project #: C80107
CRN: D5372.2 Vessel CA: 0.1250

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
295-40	Piping	Baseline		0.274	0.271	0.276	0.279	0.283	0.282	2012	0.278	0.271	0.3000	0.0375	0.0572	2013	2032
Shape	90° Elbow	Shell Side	Previous										Comments-->				
OD	3.5		Current	0.274	0.271	0.276	0.279	0.283	0.282	2012	0.278	0.271	NOMINAL ASSUMED				
Spec.	B31.3												ST Loss MPY				
Material	A 234 - WPB												LT Loss MPY 0.000				
													OK				
295-45	Piping	Baseline		0.256	0.253	0.248	0.240	0.236	0.244	2012	0.246	0.236	0.2370	0.0296	0.0736	2013	2032
Shape	90° Elbow	Shell Side	Previous										Comments-->				
OD	4.5		Current	0.256	0.253	0.248	0.240	0.236	0.244	2012	0.246	0.236					
Spec.	B31.3												ST Loss MPY				
Material	A 234 - WPB												LT Loss MPY 0.000				
													OK				
295-50	Piping	Baseline		0.231	0.246	0.246	0.240	0.243	0.243	2012	0.242	0.231	0.2370	0.0296	0.0736	2013	2032
Shape	90° Elbow	Shell Side	Previous										Comments-->				
OD	4.5		Current	0.231	0.246	0.246	0.240	0.243	0.243	2012	0.242	0.231					
Spec.	B31.3												ST Loss MPY				
Material	A 234 - WPB												LT Loss MPY 0.000				
													OK				
295-55	Piping	Baseline		0.237	0.237	0.238	0.237	0.235	0.230	2012	0.236	0.230	0.2370	0.0296	0.0736	2013	2032
Shape	90° Elbow	Shell Side	Previous										Comments-->				
OD	4.5		Current	0.237	0.237	0.238	0.237	0.235	0.230	2012	0.236	0.230					
Spec.	B31.3												ST Loss MPY				
Material	A 234 - WPB												LT Loss MPY 0.000				
													OK				