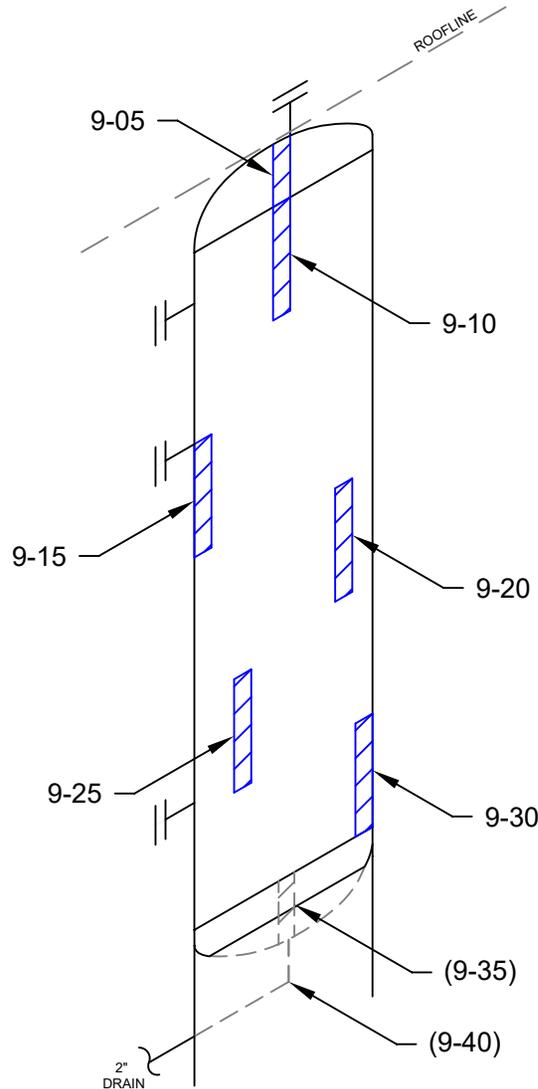


ITEM:

SEPARATOR

518943



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:

GARRETT VATERS
SNT LEVEL II
CGSB 48.9712
LEVEL II # 13937

DATE: 03/09/17

DWG: 9

CLIENT: LONG RUN EXPLORATION

LSD: 05-10-033-26-W4M

INSPECTOR : DUANE PAETKAU

LOCATION : WIMBORNE

DISTRICT UNIT : EASTERN - AB

BLDG/SKID : SKD1040

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 # : 518943

CRN # : R9068.213

SERIAL # : 138-04-04

MANUFACTURER : MARQUINN INDUSTRIES

DATE BUILT : 2004

CLIENT ID / TAG : -

M.A.W.P : 1480 PSI

M.A.W.T. : 100° F

JOINT EFFICIENCY/RT : RT 1

STRESS RELIEVED : YES

INSULATED : NO

MANWAY : NO

VESSEL SPECIFICATIONS

	OD	NOMINAL	MATERIAL	CA
VESSEL HEAD	36"	1.375"	SA-516-70	.125"
VESSEL SHELL	36"	1.500"	SA-516-70	.125"
BOOT HEAD	-	-	-	-
BOOT SHELL	-	-	-	-

COMMENTS:

PROJECT:
C31505



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 05-10-033-26W4	Vessel Number: 518943	Manufacturer: MARQUINN INDUSTRIES	Survey Date: 3/9/2017
District Unit: EASTERN - AB	Vessel Name: SEPARATOR	Serial Number: 138-04-04	Inspector: DUANE PAETKAU
Location: WIMBORNE	Year Built: 2004	Shell MAWP PSI: 1480 MAWT F: 100	Process: SWEET
Skid: SKD1040	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C31505
	CRN: R9068.213	Vessel CA: 0.1250	Report Number: 43878

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	1.515	1.515	1.515	1.507	1.507	1.515	02/22/10	1.512	1.507	1.3750	0.1250	1.2394	2018	2037
Shape	Ellipsoidal	shell Side	Previous	1.515	1.515	1.515	1.507	1.507	1.515	02/22/10	1.512	1.507	Comments-->		OK		
OD	36		Current	1.513	1.512	1.495	1.500	1.503	1.501	03/09/17	1.504	1.495					
Spec.	VIII Div 1																
Material	SA 516 - 70																
10	Upper	Shell	Baseline	1.525	1.532	1.529	1.529	1.530	1.530	02/22/10	1.529	1.525	1.5000	0.1250	1.2777	2018	2037
Shape	Cylindrical	shell Side	Previous	1.525	1.532	1.529	1.529	1.530	1.530	02/22/10	1.529	1.525	Comments-->		OK		
OD	36		Current	1.512	1.517	1.516	1.516	1.517	1.516	03/09/17	1.516	1.512					
Spec.	VIII Div 1																
Material	SA 516 - 70																
15	Mid	Shell	Baseline	1.523	1.529	1.532	1.530	1.534	1.534	02/22/10	1.530	1.523	1.5000	0.1250	1.2777	2018	2037
Shape	Cylindrical	shell Side	Previous	1.523	1.529	1.532	1.530	1.534	1.534	02/22/10	1.530	1.523	Comments-->		OK		
OD	36		Current	1.520	1.523	1.525	1.522	1.522	1.526	03/09/17	1.523	1.520					
Spec.	VIII Div 1																
Material	SA 516 - 70																
20	Mid	Shell	Baseline	1.531	1.530	1.528	1.529	1.531	1.530	02/22/10	1.530	1.528	1.5000	0.1250	1.2777	2018	2037
Shape	Cylindrical	shell Side	Previous	1.531	1.530	1.528	1.529	1.531	1.530	02/22/10	1.530	1.528	Comments-->		OK		
OD	36		Current	1.521	1.520	1.520	1.524	1.522	1.523	03/09/17	1.522	1.520					
Spec.	VIII Div 1																
Material	SA 516 - 70																



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 05-10-033-26W4	Vessel Number: 518943	Manufacturer: MARQUINN INDUSTRIES	Survey Date: 3/9/2017
District Unit: EASTERN - AB	Vessel Name: SEPARATOR	Serial Number: 138-04-04	Inspector: DUANE PAETKAU
Location: WIMBORNE	Year Built: 2004	Shell MAWP PSI: 1480 MAWT F: 100	Process: SWEET
Skid: SKD1040	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C31505
	CRN: R9068.213	Vessel CA: 0.1250	Report Number: 43878

Band	Description			Readings						Year	Avg Inches	Min Inches	Nominal	CA	TMIN	Recommended Next Inspection	Recommended Retirement Date
				1	2	3	4	5	6								
25	Lower	Shell	Baseline	1.526	1.525	1.521	1.524	1.524	1.524	02/22/10	1.524	1.521	1.5000	0.1250	1.2777	2018	2037
Shape	Cylindrical	shell Side	Previous	1.526	1.525	1.521	1.524	1.524	1.524	02/22/10	1.524	1.521	Comments-->	OK			
OD	36		Current	1.516	1.518	1.514	1.513	1.516	1.515	03/09/17	1.515	1.513					
Spec.	VIII Div 1										ST Loss MPY	1					
Material	SA 516 - 70										LT Loss MPY	1					
30	Lower	Shell	Baseline	1.525	1.525	1.526	1.525	1.525	1.517	02/22/10	1.524	1.517	1.5000	0.1250	1.2777	2018	2037
Shape	Cylindrical	shell Side	Previous	1.525	1.525	1.526	1.525	1.525	1.517	02/22/10	1.524	1.517	Comments-->	OK			
OD	36		Current	1.515	1.514	1.515	1.514	1.514	1.505	03/09/17	1.513	1.505					
Spec.	VIII Div 1										ST Loss MPY	2					
Material	SA 516 - 70										LT Loss MPY	2					
35	Bottom	Head	Baseline	1.524	1.505	1.495	1.491	1.495	1.458	02/22/10	1.495	1.458	1.3750	0.1250	1.2394	2018	2037
Shape	Ellipsoidal	shell Side	Previous	1.524	1.505	1.495	1.491	1.495	1.458	02/22/10	1.495	1.458	Comments-->	OK			
OD	36		Current	1.517	1.435	1.436	1.437	1.445	1.426	03/09/17	1.449	1.426					
Spec.	VIII Div 1										ST Loss MPY	5					
Material	SA 516 - 70										LT Loss MPY	5					
40		Nozzle	Baseline	0.320	0.309	0.312	0.307	0.309	0.308	02/22/10	0.311	0.307	0.3430	0.1250	0.0771	2018	2037
Shape	90° Elbow	shell Side	Previous	0.320	0.309	0.312	0.307	0.309	0.308	02/22/10	0.311	0.307	Comments-->	OK			
OD	2.375		Current	0.314	0.309	0.312	0.307	0.309	0.308	03/09/17	0.310	0.307					
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: 05-10-033-26W4	Vessel Number: 518943	Manufacturer: MARQUINN INDUSTRIES	Survey Date: 3/9/2017
District Unit: EASTERN - AB	Vessel Name: SEPARATOR	Serial Number: 138-04-04	Inspector: DUANE PAETKAU
Location: WIMBORNE	Year Built: 2004	Shell MAWP PSI: 1480 MAWT F: 100	Process: SWEET
Skid: SKD1040	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C31505
	CRN: R9068.213	Vessel CA: 0.1250	Report Number: 43878

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	0.266	0.259	0.269	0.272	0.265	0.261	02/22/10	0.265	0.259	0.2800	0.0350	0.2364	2018	2037	
Shape	90° Elbow	shell Side	Previous	0.266	0.259	0.269	0.272	0.265	0.261	02/22/10	0.265	0.259	Comments-->	OK			
OD	6.625	Current	0.266	0.259	0.269	0.272	0.265	0.261	03/09/17	0.265	0.259						
Spec.	B31.3									ST Loss MPY	0						
Material	A 234 - WPB									LT Loss MPY	0						
50	Piping	Baseline	0.282	0.284	0.281	0.281	0.285	0.275	02/22/10	0.281	0.275	0.2800	0.0350	0.2364	2018	2037	
Shape	90° Elbow	shell Side	Previous	0.282	0.284	0.281	0.281	0.285	0.275	02/22/10	0.281	0.275	Comments-->	OK			
OD	6.625	Current	0.282	0.284	0.281	0.281	0.285	0.275	03/09/17	0.281	0.275						
Spec.	B31.3									ST Loss MPY	0						
Material	A 234 - WPB									LT Loss MPY	0						
55	Piping	Baseline	0.270	0.274	0.272	0.272	0.271	0.273	02/22/10	0.272	0.270	0.2800	0.0350	0.2364	2018	2037	
Shape	90° Elbow	shell Side	Previous	0.270	0.274	0.272	0.272	0.271	0.273	02/22/10	0.272	0.270	Comments-->	OK			
OD	6.625	Current	0.270	0.274	0.272	0.272	0.271	0.273	03/09/17	0.272	0.270						
Spec.	B31.3									ST Loss MPY	0						
Material	A 234 - WPB									LT Loss MPY	0						
60	Piping	Baseline	0.253	0.259	0.264	0.269	0.263	0.264	02/22/10	0.262	0.253	0.2800	0.0350	0.2364	2018	2037	
Shape	90° Elbow	shell Side	Previous	0.253	0.259	0.264	0.269	0.263	0.264	02/22/10	0.262	0.253	Comments-->	OK			
OD	6.625	Current	0.253	0.259	0.264	0.269	0.263	0.264	03/09/17	0.262	0.253						
Spec.	B31.3									ST Loss MPY	0						
Material	A 234 - WPB									LT Loss MPY	0						



ULTRASONIC CORROSION SURVEY

Survey Name: LONG RUN EXPLORATION

LSD: 05-10-033-26W4	Vessel Number: 518943	Manufacturer: MARQUINN INDUSTRIES	Survey Date: 3/9/2017
District Unit: EASTERN - AB	Vessel Name: SEPARATOR	Serial Number: 138-04-04	Inspector: DUANE PAETKAU
Location: WIMBORNE	Year Built: 2004	Shell MAWP PSI: 1480 MAWT F: 100	Process: SWEET
Skid: SKD1040	Tag Number: -	Tube MAWP PSI: 0 MAWT F: 0	Project #: C31505
	CRN: R9068.213	Vessel CA: 0.1250	Report Number: 43878

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		0.310	0.303	0.294	0.315	0.321	0.317	03/09/17	0.310	0.294	0.3000	0.0375	0.1249	2018	2037	
Shape	90° Elbow	Shell Side	Previous	Comments--> OK														
OD	3.5		Current	0.310	0.303	0.294	0.315	0.321	0.317	03/09/17	0.310	0.294	BASELINE MARCH 09, 2017					
Spec.	B31.3			ST Loss MPY														
Material	A 234 - WPB			LT Loss MPY						1								
70	Piping	Baseline		0.313	0.304	0.300	0.290	0.293	0.321	03/09/17	0.304	0.290	0.3000	0.0375	0.1249	2018	2037	
Shape	90° Elbow	Shell Side	Previous	Comments--> OK														
OD	3.5		Current	0.313	0.304	0.300	0.290	0.293	0.321	03/09/17	0.304	0.290	BASELINE MARCH 09, 2017					
Spec.	B31.3			ST Loss MPY														
Material	A 234 - WPB			LT Loss MPY						1								
75	Piping	Baseline		0.334	0.330	0.329	0.321	0.321	0.320	03/09/17	0.326	0.320	0.3430	0.0429	0.0847	2018	2037	
Shape	90° Elbow	Shell Side	Previous	Comments--> OK														
OD	2.375		Current	0.334	0.330	0.329	0.321	0.321	0.320	03/09/17	0.326	0.320	BASELINE MARCH 09, 2017					
Spec.	B31.3			ST Loss MPY														
Material	A 234 - WPB			LT Loss MPY						2								