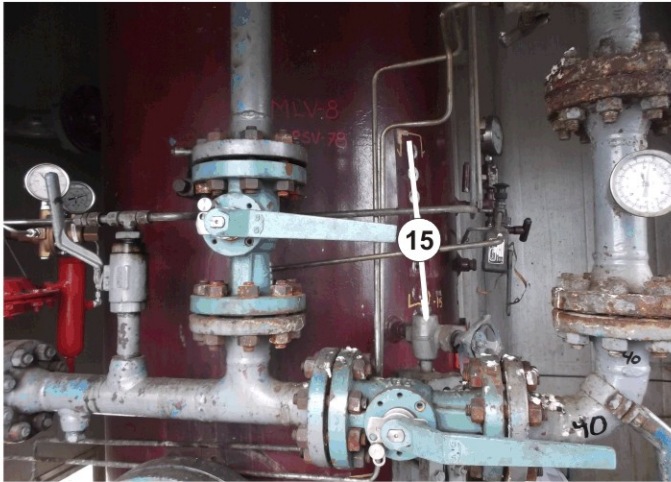
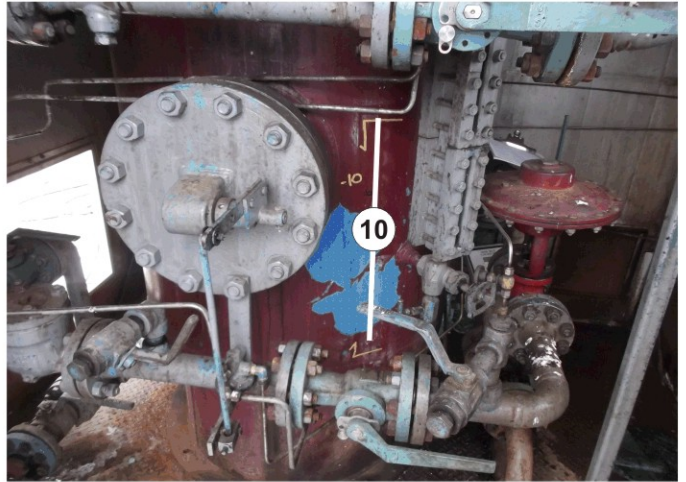
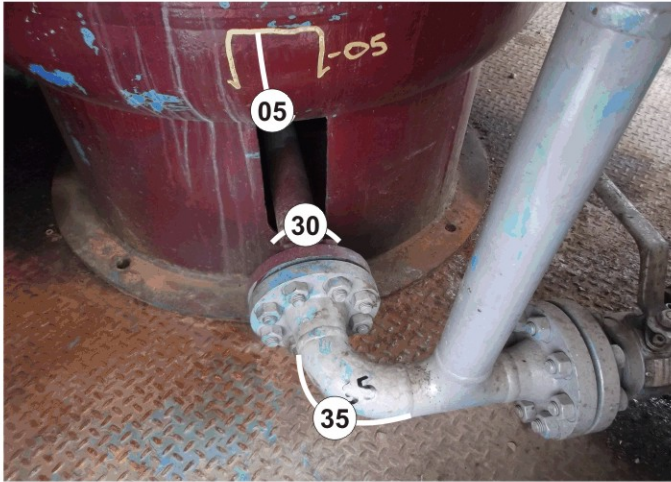


GENERAL PRESSURE VESSEL INFORMATION						
District: Central			Skid No.:			
Facility: Marion Lake			Location (LSD): 04-31-037-17W4			
Name & Equip No: TEST SEPARATOR - 0391993			Orientation: Vertical			
Company: Devon Canada			Cost Code:			
Status: Operating			Operating Province: Alberta			
Unit:			W.O/P.O No.:			
Registration Number: 2899376			Registration Number (Other):			
Serial Number: VS-6843			CRN Number: M1280.2			
National Board:			Unique ID:		ONCOR ID: 8706	
PRESSURE VESSEL NAMEPLATE DATA						
Internal Clad: No		Painted: Yes		Hand Hole: Yes		
Insulated: No		Support Type Skirt				
Capacity: M3		MDMT: -20.00 (F) -28.89 (C)				
MAWP: 500.00 (psi) 3447.40 (Kpa)		AT temperature: 100.00 (F) 37.78 (C)				
Size (diam. x length): 36.00 x 157.00(In) 914.40 x 987.80(mm)		Manufacturer: LARSEN & D'AMICO MFG. LTD.				
X-Ray: Spot		Lining Or Coated: No				
Year Built: 1993		Heat Treatment: No				
Code parameters:		Corrosion allowance: 0.00 (In) 0.00 (mm)				
Nozzle Rating: 300.00 lb ANSI		Manway: No		Manway Size: (In)		
PIPING NAMEPLATE DATA						
Primary Flange Rating: 300		ASME B16.5 - Table 2-1.1 @ 150F: 740 (psi)				
Pressure Use For TMin: Vess Design Press		Piping Operating Press: 500 (psi)				
Stress Value: 20000 (psi)		E Value: 1				
Comments:						
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet	Sour <input checked="" type="checkbox"/>		Oil		Gas	Water
Amine	LPG		Condensate		Air	Glycol
Other (Describe):						
COMPONENTS						
Name	Joint Efficiency	Outside Diameter(in.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(Inch)
SHELL	0.85	36.00		SA-516 70	17500	0.63
HEAD	1.00	36.00	Ellipsoidal	SA-516 70	17500	0.73
GENERAL COMMENTS						
MDR UPDATED. PIC: 7968 - 7974, 7978 - 7986.						

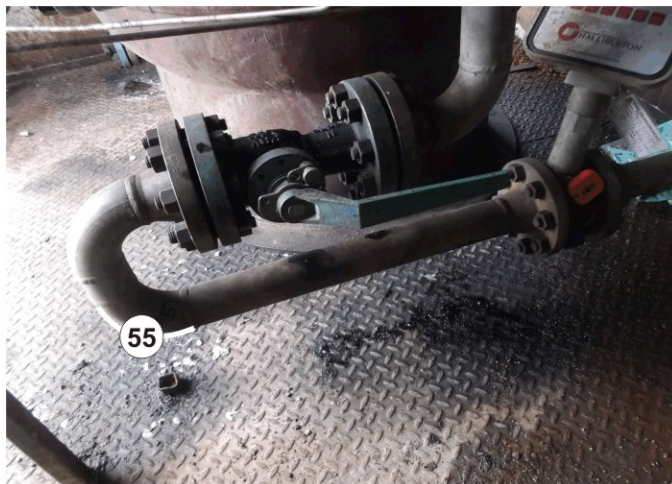
UT TML 35 again in 2014



OWNER: DEVON
EQUIPMENT NAME: SEPARATOR
REGISTRATION # 2899376
EQUIPMENT # 0391993

SERIAL # VS-6843
NB#
OWNER ID

NOTES



OWNER: DEVON	SERIAL # VS-6843
EQUIPMENT NAME: SEPARATOR	NB#
REGISTRATION # 2899376	OWNER ID
EQUIPMENT # 0391993	

NOTES
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ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME: TEST SEPARATOR	SERIAL #: VS-6843	DISTRICT: Central
PROV REG: 2899376	CRN: M1280.2	FACILITY: Marion Lake
EQUIP #: 0391993		LSD: 04-31-037-17W4

SUMMARY


TYPE	LAST INSPECTION	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR)		REMAINING LIFE (YEARS)	NEXT INSPECTION DATE
			SHORT TERM	LONG TERM		
VESSEL	Aug 9, 2013	4.0	0.0035	0.0035	69.4	Aug 9, 2017
PIPING	Aug 9, 2013	4.0	0.0035	0.0035	45.4	

VESSEL SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			CALCULATIONS			Flag
		NOM.	C.A.	NOM-CA		LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life	
05	HEAD	0.7300	0.0000	0.7300	Aug 9/13	0.743	0.765	0.501	0.0035	0.0035	69.4	NO COMMENTS
					Jan 20/11	0.752	0.770	0.501				
10	SHELL	0.6250	0.0000	0.6250	Aug 9/13	0.654	0.660	0.597	0.0000	0.0000	198.0	NO COMMENTS
					Jan 20/11	0.647	0.655	0.597				
Readings: 0.658, 0.654, 0.653, 0.655, 0.654, 0.647												
15	SHELL	0.6250	0.0000	0.6250	Aug 9/13	0.664	0.670	0.597	0.0000	0.0000	198.0	NO COMMENTS
					Jan 20/11	0.660	0.670	0.597				
Readings: 0.663, 0.660, 0.665, 0.669, 0.675, 0.665												
20	SHELL	0.6250	0.0000	0.6250	Aug 9/13	0.674	0.680	0.597	0.0000	0.0000	198.0	NO COMMENTS
					Jan 20/11	0.669	0.675	0.597				
Readings: 0.680, 0.673, 0.672, 0.674, 0.669, 0.671												
25	SHELL	0.6250	0.0000	0.6250	Aug 9/13	0.676	0.680	0.597	0.0000	0.0000	198.0	NO COMMENTS
					Jan 20/11	0.660	0.665	0.597				
Readings: 0.660, 0.661, 0.667, 0.665, 0.662, 0.665												

PIPING SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			CALCULATIONS			Flag
		NOM.	Mill Tol./CA	NOM-CA		LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life	
30	BAND 2 XS	0.2180	0.0273	0.1907	Aug 9/13	0.222	0.230	0.030	0.0000	0.0000	198.0	NO COMMENTS
					Jan 20/11	0.217	0.225	0.030				
35	90L 2 STD	0.1540	0.0193	0.1347	Aug 9/13	0.092	0.145	0.030	0.0000	0.0000	198.0	LOW RDG IS BETWEEN NOM-
					Jan 20/11	0.080	0.130	0.030				
Comments: DOUBLE CHECKED CALIBRATION & CONFIRMED READINGS. WAS UNABLE TO LOCATE AREA OF 0.080" AS SEEN IN PREVIOUS INSPECTION.												
Comments: CORROSION NOTED IN BAND 35.												
40	90L 2 STD	0.1540	0.0193	0.1347	Aug 9/13	0.129	0.140	0.030	0.0019	0.0019	51.3	LOW RDG IS BETWEEN NOM-
					Jan 20/11	0.134	0.145	0.030				
45	90L 3 STD	0.2160	0.0270	0.1890	Aug 9/13	0.202	0.235	0.044	0.0035	0.0035	45.4	NO COMMENTS
					Jan 20/11	0.211	0.225	0.044				
50	90L 2 STD	0.1540	0.0193	0.1347	Aug 9/13	0.143	0.145	0.030	0.0008	0.0008	146.4	NO COMMENTS
					Jan 20/11	0.145	0.150	0.030				
55	90L 2 STD	0.1540	0.0193	0.1347	Aug 9/13	0.127	0.145	0.030	0.0012	0.0012	83.8	LOW RDG IS BETWEEN NOM-
					Jan 20/11	0.130	0.135	0.030				

Inspected By	Signature	CGSB Leve	CGSB	Survey Date	UT Equip	Due Date OF Calibration
Justin Orichowski		1	16325	08/09/2013		

Registration #:	2899376	Equipment Name:	TEST SEPARATOR	Province:	Alberta
District:	Central	LSD:	04-31-037-17W4	Location:	Marion Lake
CRN:	M1280.2	Skid Number:		Service:	
Manway:	No	Coating:	No	Equipment Number:	0391993
MAWP (psi):	500.00 (psi)	Temp:	100.00 (F)	Serial Number:	VS-6843
Outstanding NCR's:	No	No.:	0		
General:					

Safety Valves

Side:	MAWP (psi)	MAWP (kPa)	PSV No.	Set Press (psi)	Set Press (kPa)	Capacity Imperial	Imperial Units	Capacity Metric	Metric Units
Shell	500.00	3447.40	PSV-78	500.00	3447.40	3841.00	SCFM		
Status:	Operating		Examination Methods:			Access:			
						Cleaning:			

External Inspection

Inspection Date:	Aug 9, 2013	Inspection Interval:	48	Next Insp. Date:	Aug 9, 2017
Item	Condition	Inspection Comments			
Insulation	N/A				
External Condition	Accept	GOOD CONDITION. NO DAMAGE OBSERVED.			
Leakage	Accept	MINOR SEEPAGE OBSERVED FROM 2" THREADED PLUG ON DRAIN PIPING.			
Skirt/Saddle	Accept	SKIRT - GOOD CONDITION.			
Anchor Bolts	N/A	WELDED TO FLOOR.			
Concrete Foundation	N/A				
Ladder/Platform	N/A				
Nozzle	Accept	NOZZLES IN GOOD CONDITION.			
Gauges	Accept	GOOD CONDITION.			
External Piping	Accept	WELL SUPPORTED. MINOR SURFACE CORROSION OBSERVED ON FLANGE FACES.			
Valving	Accept	GOOD CONDITION.			
PSV	Accept	SERVICED 09/2010			
NDE Methods	Concern	LOW NOTED IN TML#35 AS IN PREVIOUS INSPECTION. NO SIGNIFICANT CHANGE. ELBOW IS ABOVE TMIN BUT WILL REQUIRE FURTHER MONITORING.			
Other	Concern	BUILDING IS IN ROUGH CONDITION. CORROSION ALONG ROOF SEAMS & AROUND VESSEL SHELL. ROOF IS DETERIORATING AROUND VESSEL SHELL.			
Recommendations:	MONITOR ELBOW @ TML#35 - RECOMMEND TO REPLACE ROOF OF BUILDING. VESSEL IS FIT FOR SERVICE.		Inspected By:	Justin Orichowski	

INSPECTOR : I have witnessed/done the above inspections and certify that they have been done in accordance with our approved manual and that the information is accurate. I certify that the status of the Pressure equipment detailed here is:

Suitable to be returned to service **Repairs complete(AB-40 attached)**

Repairs are still required: **Suggested Inspection interval:**

Inspector: Justin Orichowski **Signature:** _____ **Date:** Aug 9, 2013

Pressure Safety Valve Summary

PSV Static Data

Client:	Devon Canada	Facility:	Marion Lake
District:	Central	PSV Number:	PSV-78
Location:	04-31-037-17W4	Serial Number:	64104-6
Description:		Manufacturer:	Taylor Valve
CRN:	OG1316.1234	Code Stamp:	
Model:	T-8200-2	Outlet Size:	2
Inlet Size:	2		
Side (Shell or Tube):	Shell		

PSV Service/Inspection

Set Date:	1 Sep, 2010	Service Interval:	
Set Pressure (psig):	500	Capacity (scfm):	3841
Service Sealed Intact:	Yes		
Block Valve Inlet:	No	Block Valve Inlet Locked Open:	
Block Valve Outlet:	No	Block Valve Outlet Locked Open:	
Service Company:		Ref Number:	
Condition:		Prepopped Results:	
Service Type:		Installed Date:	
Next Service Date:			
Comments:			

Equipment Protected

<u>Req #</u>	<u>Equip #</u>	<u>Type</u>	<u>Name</u>	<u>Status</u>	<u>MAWP</u>
2899376	0391993	Pressure Vessel	TEST SEPARATOR	Operating	500.00

PSV Summary

PSV passes all summary checks.



NAMEPLATE



OVERALL



PSV



OVERALL



SEEPAGE



PIPING CORROSION

OWNER: DEVON	SERIAL # VS-6843	NOTES PAGE 1 / 2
EQUIPMENT NAME: SEPARATOR	NB#	
REGISTRATION # 2899376	OWNER ID	
EQUIPMENT # 0391993		



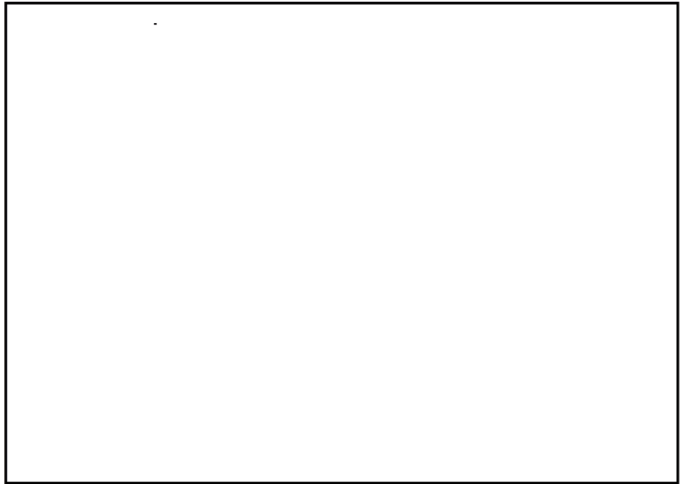
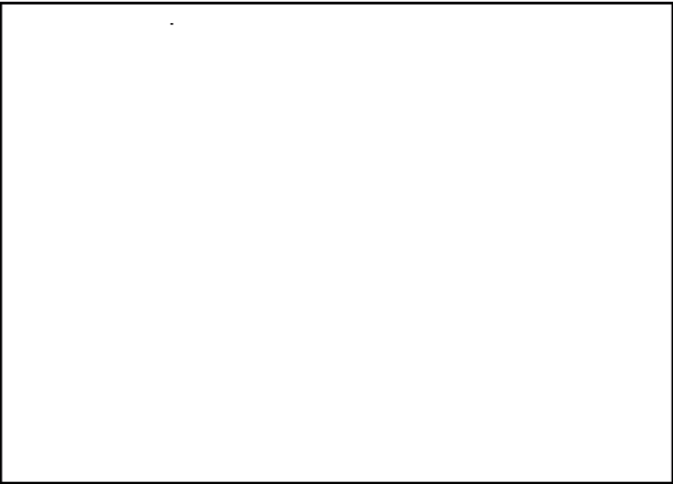
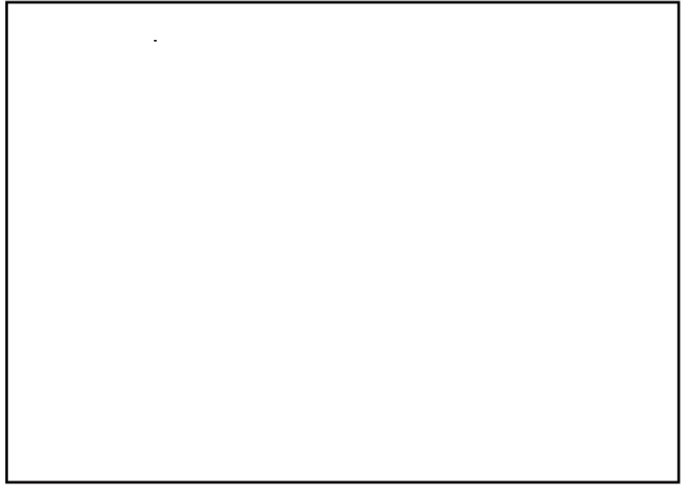
PIPING CORROSION



ROOF CORROSION



ROOF CORROSION



OWNER: DEVON
EQUIPMENT NAME: SEPARATOR
REGISTRATION # 2899376
EQUIPMENT # 0391993

SERIAL # VS-6843
NB#
OWNER ID

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