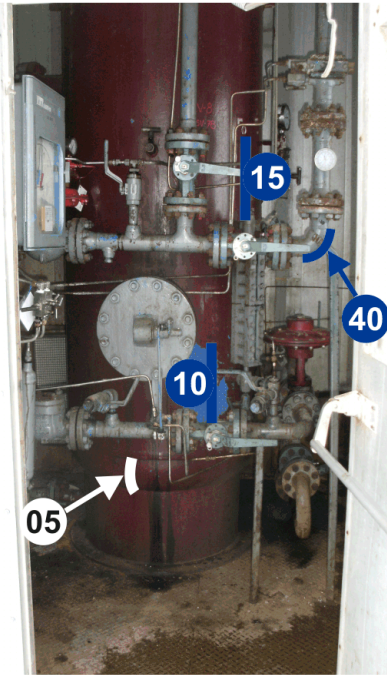
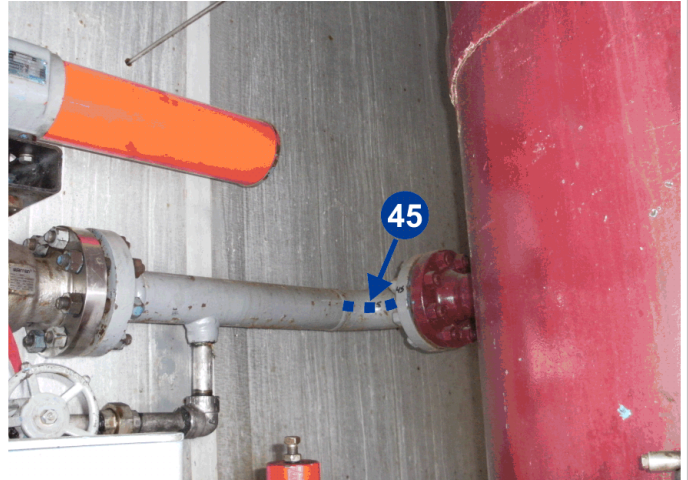


GENERAL PRESSURE VESSEL INFORMATION						
District: Central			Skid No.:			
Facility: Marion Lake			Location (LSD): 04-31-037-17W4			
Name & Equip No: TEST SEPARATOR - MLV-8			Orientation: Vertical			
Company: Devon Canada			Cost Code:			
Status: Operating			Operating Province: Alberta			
Unit:						
ABSA						
Plant:			Vessel:			
Process:			Special:			
Amount(\$):						
PRESSURE VESSEL NAMEPLATE DATA						
Registration Number: 2899376			Registration Number (Other):			
Serial Number: VS-6843			CRN Number: M1280.2			
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)	
			Manway: No			
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.						



OWNER	DEVON	EQUIPMENT #	MLV-8
EQUIPMENT NAME	TEST SEPARATOR	SERIAL #	VS-6843
REGISTRATION #	2899376	INSPECTION DATE	JANUARY 20, 2011

NOTES NO ACCESS BELOW SKIRT.
 PAGE 1 OF 2



OWNER	DEVON	EQUIPMENT #	MLV-8
EQUIPMENT NAME	TEST SEPARATOR	SERIAL #	VS-6843
REGISTRATION #	2899376	INSPECTION DATE	JANUARY 20, 2011

NOTES NO ACCESS BELOW SKIRT.
 PAGE 2 OF 2

ULTRASONIC CORROSION SURVEY REPORT

EQUIP NAME: TEST SEPARATOR
 PROV REG: 2899376
 EQUIP #: MLV-8

SERIAL #: VS-6843
 CRN: M1280.2

DISTRICT: Central
 FACILITY: Marion Lake
 LSD: 04-31-037-17W4

SUMMARY

TYPE	LAST INSPECTION	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR)		REMAINING HALF LIFE (YEARS)	GOVERNING INSPECTION INTERVAL	NEXT INSPECTION DATE
			SHORT TERM	LONG TERM			
VESSEL	Jan 20, 2011	4.0	0.0000	0.0000	99.0	REGULATORY	Jan 20, 2015
PIPING	Jan 20, 2011	4.0	0.0000	0.0000	99.0		

VESSEL SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			T Req (inch)	CALCULATIONS		
		NOM.	C.A.	NOM-CA		LOW	AVG	short term corr rate		long term corr rate	remaining half life	
05	Head	0.7300	0.0000	0.7300	Jan 20/11	0.752	0.770	0.501	0.0000	0.0000	99.0	
10	Shell	0.6250	0.0000	0.6250	Jan 20/11	0.647	0.653	0.597	0.0000	0.0000	99.0	
Readings: 0.658, 0.654, 0.653, 0.655, 0.654, 0.647 Notes: The above readings were used to obtain the min and avg readings for the TML												
15	Shell	0.6250	0.0000	0.6250	Jan 20/11	0.660	0.666	0.597	0.0000	0.0000	99.0	
Readings: 0.663, 0.660, 0.665, 0.669, 0.675, 0.665 Notes: The above readings were used to obtain the min and avg readings for the TML												
20	Shell	0.6250	0.0000	0.6250	Jan 20/11	0.669	0.673	0.597	0.0000	0.0000	99.0	
Readings: 0.680, 0.673, 0.672, 0.674, 0.669, 0.671 Notes: The above readings were used to obtain the min and avg readings for the TML												
25	Shell	0.6250	0.0000	0.6250	Jan 20/11	0.660	0.663	0.597	0.0000	0.0000	99.0	
Readings: 0.660, 0.661, 0.667, 0.665, 0.662, 0.665 Notes: The above readings were used to obtain the min and avg readings for the TML												

PIPING SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			T Req (inch)	CALCULATIONS		
		NOM.	Mill Tol./CA	NOM-CA		LOW	AVG	short term corr rate		long term corr rate	remaining half life	
30	BAND 2 XS	0.2180	0.0273	0.1907	Jan 20/11	0.217	0.225	0.030	0.0000	0.0000	99.0	
35	90L 2 STD	0.1540	0.0193	0.1347	Jan 20/11	0.080	0.130	0.030	0.0000	0.0000	99.0	
Comments: CORROSION NOTED IN BAND 35.												
40	90L 2 STD	0.1540	0.0193	0.1347	Jan 20/11	0.134	0.145	0.030	0.0000	0.0000	99.0	
45	90L 3 STD	0.2160	0.0270	0.1890	Jan 20/11	0.211	0.225	0.044	0.0000	0.0000	99.0	
50	90L 2 STD	0.1540	0.0193	0.1347	Jan 20/11	0.145	0.150	0.030	0.0000	0.0000	99.0	
55	90L 2 STD	0.1540	0.0193	0.1347	Jan 20/11	0.130	0.135	0.030	0.0000	0.0000	99.0	

Field Inspection Report

- Devon Canada

7,355

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:	MLV-8
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:	EXTERNAL		Cleaning:

External Inspection

Inspection Date:	Jan 20, 2011	Inspection Interval:	48	Next Insp. Date:	Jan 20, 2015
Item	Condition	Inspection Comments			
Insulation	Concern	BUILDING: DETERIORATION NOTED THROUGHOUT BUILDING ROOF, PIC# 7968-7970.			
External Condition	Accept	OVERALL IN FAIR CONDITION, SOME PAINT FLAKING AND RUSTING NOTED ON SHELL AROUND VESSEL WRAP BAND, PIC# 7971-7973.			
Leakage	Accept	ACTUATOR VALVE ON EMULSION OUTLINE APPEARS TO BE SEEPING, PIC# 7974.			
Skirt/Saddle	Accept	IN FAIR CONDITION, WELDED TO FLOOR.			
Anchor Bolts	N/A				
Concrete Foundation	N/A				
Ladder/Platform	N/A				
Nozzle	Accept	IN FAIR CONDITION.			
Gauges	Accept	OVERALL IN GOOD CONDITION.			
External Piping	Accept	OVERALL IN FAIR CONDITION, PAINT FLAKING AND GENERAL SURFACE CORROSION NOTED ON INLET AND GAS OUTLET PIPING.			
Valving	Accept	IN FAIR CONDITION.			
PSV	Accept	IN GOOD CONDITION.			
NDE Methods	Concern	CORROSION NOTED IN TML 35 - LOW .080"			
Other	N/A				
Recommendations:	RECOMMEND MONITORRING AND OR REPLACING CORRODED PIPE SECTIONS.		Inspected By:	Kurt Robak	

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: Kurt Robak **Signature:** _____ **Date:** Jan 20, 2011

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:	OG1316.2C	Code Stamp:	
Model:	82-76523	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	MLV-8	Pressure Vessel	TEST SEPARATOR	Operating	500.00

PSV Summary

PSV passes all summary checks.



NAMEPLATE



OVERALL



PSV



DETERIORATION ON BUILDINGS ROOF



DETERIORATION ON BUILDINGS ROOF



DETERIORATION ON BUILDINGS ROOF

OWNER	DEVON	NOTES PAGE 1 OF 2
EQUIPMENT NAME	TEST SEPARATOR	
REGISTRATION #	2899376	
EQUIP NUMBER	MLV-8	
SERIAL NUMBER	VS-6843	



PAINT FLAKING AND RUSTING ON SHELL



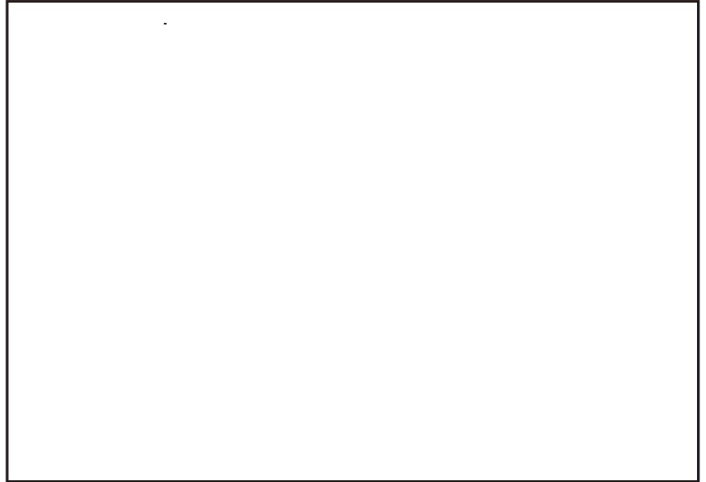
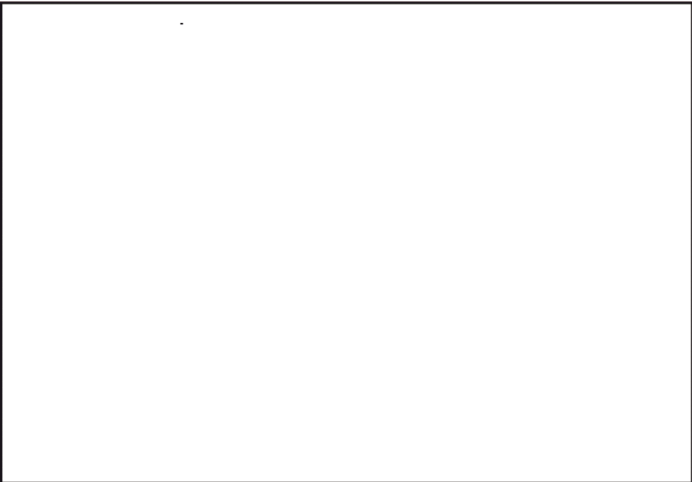
PAINT FLAKING AND RUSTING ON SHELL



PAINT FLAKING AND RUSTING ON SHELL



SEEPAGE ON ACTUATOR VALVE



OWNER	DEVON	NOTES PAGE 2 OF 2
EQUIPMENT NAME	TEST SEPARATOR	
REGISTRATION #	2899376	
EQUIP NUMBER	MLV-8	
SERIAL NUMBER	VS-6843	

0514

ENTERED
04/03/09

SCANNED

A-2899376

FORM U. A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by LARSEN & D'AMICO MFG. LTD. 9805-51 Avenue Edmonton, Alberta T6E 4W8

Marion LK
MLV-8

2. Manufactured for Resman Oil & Gas Ltd. 4766-91 street Edmonton, Alberta T6E 5V7

04-314Z-37-17W4

3. Location of installation stock

4. Type vertical VS-6843 M1208.2 LD-2940-A 1993

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BULLETIN AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1997

6. Shell SA-516-70 .625 36" 13' 13/4" (4007mm)

7. Seams WELDED SINGLE BUTT spot n/r n/r single butt

8. Heads: (a) Matl SA-516-70 (b) Matl SA-516-70

Location (Top, Bottom, Ends)	Minimum Thickness (mm)	Corrosion Allowance (mm)	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flange Diameter	Surface Profile
(a) top	.737 (18.72)	n/r			S:E				concave
(b) bottom	.73 (18.54)	n/r			S:E				concave

MAWP (3447) KPa 500 psi at max temp. (38°C) 100 psi
Min design metal temp. (-28.8) °C at 500 psi Hydro pneu or comb test pressure (5171) KPa 750 psi

10. Nozzles, inspection and safety valve openings

Purpose (Inlet, Outlet, Drain)	No	Diam or Size	Type	Matl	Nom Thk	Reinforcement Matl	How Attached	Location
				*Spot on S1, S2 and 1 see attached U-4				

11. Supports: Skirt yes Lugs no Legs no Other welded - head

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: IMPACT TEST NOT MANDATORY: PARA UG-20-F

TYPE: vertical separator
CAPACITY: 73 cu. ft. (2.06 cu. meter) W.O. # 3218 ITEM # VS-7
HYDROTEST POSITION: HORIZONTAL WEIGHT: 3650 lbs (1656 kg)

CERTIFICATE OF SHOP COMPLIANCE
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 14254 expires Oct 28 19 95
Date Nov 18-93 Co. name LARSEN & D'AMICO MFG. LTD. Signed W.C. Smith

CERTIFICATE OF SHOP INSPECTION
Vessel constructed by LARSEN & D'AMICO MFG. LTD. at 9805-51 Avenue
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by Boiler & Pressure Vessel Safety
have inspected the component described in this Manufacturer's Data Report on Nov. 19, 19 93, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind of equipment from or connected with this inspection.
Date Nov. 19/93 Signed J. Proke Alberta 437

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET (A) 2899376
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by LARSEN & D'AMICO MFG. LTD 9805-51AVE EDMONTON, AB. T6E 4W8
(Name and address of manufacturer)
2. Manufactured for Resman Oil & Gas Ltd. 4266-91 street Edmonton, Alberta T6E 5V2
(Name and address of purchaser)
3. Location of installation stock
(Name and address)
4. Type vert VS- 6843 M12x8.2 LD-2940-A 1993
(Weld, vert., tank, etc.) (Mfg'r's serial No.) (CRN) (Dwg) (Mater. Id. No.) (Year built)

Purpose (Inlet, Outlet, Drain)	No	Diam. or Size	Type	Matl	Nom Thk	Reinforcement Matl.	How Attached	Location
inlet	1	3"	300 flgd	SA-105	Sch 160	--	welded	shell
outlet/insp	1	3"	300 flgd	SA-105	Sch 160	--	welded	head
PSV	1	3"	300 flgd	SA-105	Sch 160	--	welded	shell
LC/Insp	1	8"	300 flgd	SA-105	Sch 80	2 3/16 x 1/4	welded	shell
Liq Out	1	2"	300 flgd	SA-105	Sch 80	--	welded	shell
drain	1	2"	300 flgd	SA-105	Sch 80	--	welded	head
LG/II	3	3/4"	coupling	SA-105	3000#	--	welded	shell
PI/PSDH	2	1/2"	coupling	SA-105	3000#	--	welded	shell
LSDH	1	2"	coupling	SA-105	3000#	--	welded	shell

WO# 321R
Item #VS-7

Date Nov 18-93 Co. name LARSEN & D'AMICO MFG. LTD. Signed W.C. Smith
Date Nov. 19/193 Signed J. Proctor Commissions Alberta 437