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04/03/09

SCANNED

A-2899376

FORM U-1 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

Marion LK  
MLV-8  
04-31#Z-37-17W4

1 Manufactured and certified by LARSEN & D'AMICO MFG. LTD. 9805-51 Avenue Edmonton, Alberta 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 vertical VS-6843 M1208.2 LD-2940-A 1993  
(Mounting code) (Mfg. serial No.) (ICRN) (Drawing No.) (Year built)

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

6 Shell SA-516-70 .625 15.8 914 36" 13' 13/4" (4007mm)  
(Matl. Spec. No. Grade) (Nom. Thk. (in.)) (Code Case No.) (Dia. (D) (ft. & in.)) (Length (overall) (ft. & in.))

7 Seams WELDED SINGLE BUTT spot \* n/r n/r single butt \* GNE  
(Long. (Welded But. Singl. Lap But.) (RT (Spec. or Full)) (EM (RT)) (HT Temp. (°F)) (Time (hr)) (Grth. (Welded But. Singl. Lap But.) (RT (Spec. or Full)) (RT. or Course))

8. Heads: (a) Matl. SA-516-70 (b) Matl. SA-516-70  
(Spec. No. Grade)

Location (Top Bottom, Ends)	Minimum Thickness (in.)	Corrosion Allowance (in.)	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Profile (Curve or Convex)
(a) top	.73 (18.72)	n/r (-)							
(b) bottom	.73 (18.54)	n/r (-)			S:E				concave
					S:E				concave

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
MAWP (3447) KPa 500 psi at max temp. (38 °C) 100 °F  
Min design metal temp. (-28.8) -20 °F 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 Attached welded-head  
(Yes or No) (No.) (No.) (Describe) (Where and How)

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  
(Name of part, item number, Mfg.'s name and identifying stamp)

TYPE: vertical separator  
CAPACITY: 73 cu. ft. (2.06 cu. meter) ULTIMATE USER RESMAN OIL & GAS  
HYDROTEST POSITION: HORIZONTAL W.O. # 3218 ITEM # VS-7  
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 (Manufacturer) (Representative)

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, arising from or connected with this inspection.  
Date Nov. 19/93 Signed [Signature] Alberta 437  
(Authorizing Inspector) (Commissioned Inspector) (State, Prov. and No.)



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 M1209.2 LD-2940-A 1993  
(Mark, vert., tank, etc.) (Mfg's. serial No.) (CRN) (Dwg) (Nat'l. Bd. 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/VI	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# 3218  
Item #VS-7

Date Nov 18-93 Co. name LARSEN & D'AMICO MFG LTD Signed [Signature]  
Date Nov. 19/93 Signed [Signature] Commissions Alberta 937