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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

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

to July
Address (Date) (15.8 mm) (Code Case No. 914 mm) Special Service (UG-2012)

6 Shell SA-516-70 .625 36" 13 13/16" (4007 mm)
Matl (Spec No. Grade) (Nom. Thk. (in)) (Corr. Allow. (in)) (Diam. (D) (ft. & in)) (Length (overall) (ft. & in))

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

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

Location (Top Bottom, Ends)	Minimum Thickness (in) (mm)	Corrosion Allowance (in) (mm)	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flare Diameter	Side to Profile (Outside or Concave)
(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 (Describe) Attached welded - head (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

TYPE: vertical separator ULTIMATE WARE RESMAN OIL & GAS
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 (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 J. Probst (Inspector) Alberta 437 (Inspector's License No.)

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

(A) 2899376

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** **M12#9.2** **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 **we [Signature]**
Date **Nov. 19/93** Signed **[Signature]** Commissions **Alberta 437**