FORM U-1A 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

(A)261972

Manufactured and certified by Sure Weld Industries Ltd. 3815 56 Avenue S.E. Calgary, Alberta. T2C-2E4
(Name and address of manufacturer)

2. Manufactured for Renaissance Energy Ltd. 3300 400 3 Avenue S.W, Calgary, Alberta, T2P-4H2
(Name and address of purchaser)

3. Location of installation LSD: 04-05-23-10-W4M
(Name and address)

4. Type vertical (Horiz. or vert., tank) | 2015.90 (Mfg's serial No.) | K 0237.2 (CRN) | 2015-90-1 (Drawing No.) | – (Nat'l. Bd. No.) | 1990 (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 Year 1986

to 1989 Addenda (Date) | – Code Case No. | – Special Service per UG 120(d)

6. Shell: SA-516-70N (Matl (Spec. No., Grade)) | 1.75" (Nom. Thk. (in.)) | .0625" (Corr. Allow. (in.)) | 3'6" (Diam. I.D. (ft. & in.)) | 14'4" (Length (overall) (ft. & in.))

7. Seams: sngl 'v' butt (Long (Welded, Dbl., Sngl., Lap, Butt)) | full (R.T. (Spot or Full)) | 100% (Eff. (%)) | 1100°F (H.T. Temp. (°F)) | 1.75 (Time (hr)) | sngl 'v' butt (Girth (Welded, Dbl., Sngl., Lap, Butt)) | * full (R.T. (Spot, Partial, or Full)) | 1 (No. of Courses)

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

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	top	1.72	.0625 (1.6)			2:1				concave
(b)	bottom	1.72	.0625 (1.6)			2:1				concave

If removable, bolts used (describe other fastenings) (Matl., Spec. No., Gr., Size, No.)

9. MAWP 1421 (9800) psi at max. temp. 100 (38) °F
Min. design metal temp. 32 °F at 1421 psi. Hydro., pneu., or comb. test pressure 2132 (14,700) psi

Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam or Size	Type	Matl	Nom Thk	Reinforcement Matl.	How Attached	Location
inlet	1	6"	RFWN	SA-106-B	.864"	SA-516-70N	weld	
outlet/PSV	1	8"	RFWN	SA-106-B	.875"	SA-516-70N	weld	shell
surge	1	2"	RFWN	SA-106-B	.436"	n/a	weld	
H.C. outlet	1	2"	RFWN	SA-106-B	.436"	n/a	weld	

11. Supports: Skirt yes (Yes or no) Lugs no (No.) Legs no (No.) Other no (Describe) Attached bottom head, welded (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: (Name of part, item number, Mfg'r's name and identifying stamp)

Volume: 93.6 Cu Ft (2.65 Cu M) — Impact testing exempt as per UCS 66
Description: Inlet Separator — * X-Ray to UW 11a
see attached U-4 form — units in brackets denote metric

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. 14,952 expires Feb 16, 19 92

Date April 12, 1990 Co. name Sure Weld Industries Ltd. (Manufacturer) Signed (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Sure Weld Industries Ltd. at 3815 56 Avenue S.E. Calgary, Alberta,

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 Department Of Labour have inspected the component described in this Manufacturer's Data Report on April 12, 19 90, 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 April 12, 90 Signed (Authorized Inspector) Commissions Alberta (Nat'l Board (incl. endorsements), State, Prov. and No.)

(12/87)

This Form (E00117) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300