FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only)

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by **Samuel Pressure Vessel Group, 58 Samuel Way, Lebanon, Virginia, 24266, USA**
(Name and address of Manufacturer)

2. Manufactured for **Stock**
(Name and address of Purchaser)

3. Location of Installation **Unknown**
(Name and address)

4. Type **Vertical** (Horizontal or vertical, tank) | **1148323 thru 1148326** (Manufacturer's serial number) | **M1699.5621430** (CRN) | **C100950-X Rev.20** (Drawing number) | **1148323-1148326** (National Board number) | **2026** (Year built)

5. ASME Code, Section VIII, Division 1 **2025/ N/A** [Edition and Addenda, if applicable (date)] | **None** (Code Case numbers) | **None** [Special service per UG-120(d)]

6. Shell: **SA455** (Material spec. number, grade) | **.250"** (Nominal thickness) | **None** (Corr. allow.) | **3' 6" (OD)** (Inner diameter) | **7' 11"** [Length (overall)]

Body Flanges on Shells												
									Bolting			
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

7. Seams: **Type No. 1** [Long. (welded, dbl., sngl., lap, butt)] | **Spot** [R.T.(spot or full)] | **85%** (Eff.,%) | **N/A** (H.T. temp) | **N/A** (Time, hr) | **Type No. 2** [Girth. (welded, dbl., sngl., lap, butt)] | **None** [R.T. (spot or full)] | **65%** (Eff., %) | **1** (No. of courses)

8. Heads: (a) **SA414-G** (Material spec. number, grade or type) (H.T. - time and temp.) (b) **SA414-G** (Material spec. number, grade or type) (H.T. - time and temp.)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A		
		Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None	Eff.
(a)	TOP	.235"	None	N/A	N/A	2:1	N/A	N/A	N/A		X	S	None	85%
(b)	BOTTOM	.235"	None	N/A	N/A	2:1	N/A	N/A	N/A		X	S	None	85%

Body Flanges on Heads												
									Bolting			
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material
(a)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A

9. MAWP **200 psi** (Internal) **N/A** (External) at max. temp. **400 °F** (Internal) **N/A** (External)

Min. design metal temp. **-20 °F** at **200 psi** . Hydro, pneu., or comb. test pressure **HYDRO. at 260 psi** .

Proof test **N/A** .

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inspection	1	12" x 16"	300#	SA106-C	N/A	1.00"	N/A	Inherent	FigUW16.1(i)	N/A	Shell
Unknown	2	4.000"	RFSO CL150#	SA106-B	SA105	.237"		Inherent	FigUW16.1(i)	Fig. UW-21	
Unknown	1	3.000"	3000#	SA105		.375"		Inherent	FigUW16.1(y-2)		
Unknown	3	1.000"	Threaded Fitting	SA181 CL70		UG-11(a)(1)		Inherent	FigUW16.2(c)		
Unknown	1	.250"	Threaded Fitting	SA181 CL70		UG11(a)(1)		Inherent	FigUW16.2(c)		
Drain	1	1.000"	Threaded Fitting	SA181 CL70	N/A	UG-11(a)(1)	N/A	Inherent	FigUW16.2(c)	N/A	Head

11. Supports: Skirt **Yes** (Yes or no) Lugs **4** (Number) Legs **0** (Number) Other **Name Plate** (Describe) Attached **Head & Shell - 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:

N/A

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

Constructed under the provisions of UG-90.3 (b). No safety device provided see UG-151. Impact test exempt per UG-20(f) & UCS-66. Drawing# C100950R-X Rev.0 submitted for Canadian registration.

FORM U-1A

Manufactured by **Samuel Pressure Vessel Group, 58 Samuel Way, Lebanon, Virginia, 24266, USA**

Manufacturer's Serial No. **1148323 thru 1148326** CRN **M1699.5621430** National Board No. **1148323-1148326**

CERTIFICATE OF SHOP/FIELD 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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number **23846** expires **October 9, 2027** .

Date **04/07/2026** Co. name **Samuel Pressure Vessel Group** (Manufacturer) Signed (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by **Samuel Pressure Vessel Group** at **58 Samuel Way, Lebanon, Virginia, 24266, USA**

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by Bureau Veritas Inspection and Insurance Company, of Lynn, MA

have inspected the component described in this Manufacturer's Data Report on April 7, 2026 , and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor the Inspector's employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor the Inspector's 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 04/07/2026 Signed (Authorized Inspector) Commissions 17509 (National Board Authorized Inspector Commission number)