

**FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS**  
 (Alternate 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 by and Certified by Penfabco Ltd. 5720 - 103A Street, Edmonton, Alberta T6H 2J5

2. Manufactured for Argo Sales Ltd. P.O. Box 130, Nisku, Alberta T0C 2G0

3. Location of Installation Stock Item

4. Type Vertical PS-1628 R-9443.2 PS-1628 (Year Built) 1984  
(Type or Vert. Tank) (Mfg's Serial No.) (CRN) (Drawing No.) (NHTB Bid No.)

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 1983  
 (Year) and Addenda to ASME and Code Case Nos. Special Service per UG-120(d)  
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

6. Shell: Matl. SA-516-70 Nom. Thk. 6250 in. Corr. Allow. 0 in. Diam. 6100 in. O.D. 2540 mm  
(Spec. No., Grade) (Overall)

7. Seams: Long. WDB RT. Eff. 85 % H.T. Temp. 0 F Time 0 hr. Girth WDB RT Spot No. of Courses 1  
(Welded, Dot, Sing., Lap, Butt) (Spot or Full) (Welded, Dot, Sing., Lap, Butt) (Spot, Partial)

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

Location (Top, Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Full Diameter	Side to Pressure (Convex or Concave)
(a) Top	.578"				2:1				Concave
(b) Bottom	15mm				2:1				Concave

If removable, bolts used (describe other fastenings)

9. Const. for max. AWP 5171 kPa 66 °C (Material, Spec. No., Gr., Size, No.) 7756 kPa  
(when less than 20F) (or comb. test)

10. Safety Valve Outlets: Number 0 Size 0 Location Installation by others

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Dim. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
Inlet	N1	2"	RRN	SA-105	sch 80		Welded	Shell
Outlet	N2	2"	RRN	SA-105	sch 80		Welded	Top Head
Drain	C2	2"	Cplg.	SA-105	3000#		Welded	Bottom Head

12. Supports: Skirt Yes Lugs Legs Other Attached Welded to bottom head  
(Yes or No) (No) (No) (Describe) (Where and How)

13. Remarks: Ultimate owner: Argo Sales Ltd.  
P.O. Box 130  
Nisku, Alberta  
T0C 2G0  
Volume: .5 m<sup>3</sup> 2-Phase Vertical Separator

**CERTIFICATE OF 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.

Date 14-25-84 Signed Penfabco Ltd. by [Signature] "U" Certificate of Authorization No. 14,383 expires 1-10, 1987  
(Manufacturer) (Representative)

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**CERTIFICATE OF SHOP INSPECTION**

Vessel made by Penfabco Ltd. at Edmonton, Alberta

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Alberta and employed by The Province

have inspected the pressure vessel described in this Manufacturers' Data Report on 14-25-84 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 the Manufacturers' 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.

Signed: [Signature] Date 14/11/84 Commissions alt.  
(Inspector) (NHTB Board, State, Province and No.)

NB-18 Rev 5 This form may be obtained from the National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Col'a., Oh. 43229