

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 GlobalFlow Inc., 7013 Old TransCanada Highway, PO Box 1120, Redcliff, AB Canada T0J 2P0
(Name and address of Manufacturer)

2. Manufactured for Ultrafab Industries Ltd., 261088 Wagon Wheel Crescent, Rocky View, AB Canada T4A 0E2
(Name and address of Purchaser)

3. Location of installation Stock - 261088 Wagon Wheel Crescent, Rocky View, AB Canada T4A 0E2 **(A) 6098452**
(Name and address)

4. Type Sour Vertical Sweetener 11-038-15 V4683.2 11-038-REG Rev.4 113 2011
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (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 2010
Year

to N/A N/A
[Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell SA106C 1.219" 0.125" 24" od 120" s/s
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

7. Seams SMLS N/A 100 1150°F 1.25 Single Type 1 Full 100 1
[Long. (welded, dbl., singl., lap, butt)] [R.T. (spot or full)] (Eff., %) (H.T. temp.) (Time, hr) [Girth (welded, dbl., singl., lap, butt)] [R.T. (spot or full)] (Eff., %) (No. of courses)

8. Heads: (a) Material SA516-70N (b) Material SA516-70N
(Spec. no., grade) (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	0.9254"	0.125"	--	--	2:1	--	--	--	Concave
(b)	Bottom	0.9254"	0.125"	--	--	2:1	--	--	--	Concave

If removable, bolts used (describe other fastenings) N/A
(Material spec. number, grade, size, number)

9. MAWP 1423psi 140°F at max. temp. 140°F
(Internal) (External) (Internal) (External)

Min. design metal temp. -20°F at 1423psi Hydro., pneu., or comb. test pressure 1850psi
(Internal) (External)

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	
Inlet, Gas Outlet	2	3"	RFLWN	SA105N	SA105N	0.810"	0.125"	--	UW16.1(c)	UW16.1(c)	Shell, Top Head
Liquid Drain	1	2"	RFLWN	SA106B	SA105N	0.344"	0.125"	--	UW16.1(a)	UW16.1(c)	Shell
Inspection	2	8"	RFLWN	SA105N	SA105N	1.375"	0.125"	--	UW16.1(c)	UW16.1(c)	Shell
PSV	1	2"	RFLWN	SA106B	SA105N	0.344"	0.125"	--	UW16.1(c)	UW16.1(c)	Shell
Chemical Inj.	1	1"	RFLWN	SA106B	SA105N	0.358"	0.125"	--	UW16.1(a)	Type 1	N1

11. Supports: Skirt Yes Lugs 2 Legs N/A Other N/A Attached Bottom Head & Shell/Welded
(Yes or no) (Number) (Number) (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: _____
(Name of part, item number, Manufacturer's name and identifying stamp)

Impact Testing Exempt per UG20f(1-5), Volume: 28.01 cu ft/0.79 cu m, Const. Drwg: 11-038 Rev.3

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 <u>38,402</u> expires <u>February 12, 2012</u> .	
Date <u>Aug. 3/11</u> Co. name <u>GlobalFlow Inc.</u> Signed <u>[Signature]</u> <small>(Manufacturer) (Representative)</small>	
CERTIFICATE OF SHOP/FIELD INSPECTION	
Vessel constructed by <u>GlobalFlow Inc.</u> at <u>Medicine Hat, AB Canada</u>	
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 <u>Alberta</u> and employed by <u>ABSA</u>	
have inspected the component described in this Manufacturer's Data Report on <u>Aug 3, 2011</u> , 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 his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 <u>Aug 3, 2011</u> Signed <u>[Signature]</u> Commissions <u>NB10304AEB AB-12</u> <small>(Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)</small>	