

W1006 Job/Sales Order #		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								
Purchase Order #										
1. Manufactured and certified by <u>H. A. Phillips & Co., 1612 Louise Drive, South Elgin, Illinois, 60177, USA</u> (Name and address of manufacturer)										
2. Manufactured for <u>Stock, USA</u> (Name and address of purchaser)										
3. Location of Installation <u>Not Known</u> (Name and address)										
4. Type <u>Vertical</u> (Horizontal or vertical, tank)		<u>W1006-1 to W1006-2</u> (Manufacturer's serial number)		<u>N/A</u> (CRN)		<u>11760(Q)</u> (Drawing No.)		<u>12539-12540</u> (National Board number)		<u>2010</u> (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 <u>2007</u> to <u>2009b</u> (year) (Addenda (Date))										
<u>N/A</u> (Code Case numbers)		<u>N/A</u> (Special Service per UG-120(d))								
6. Shell: <u>SA-53 Gr. B</u> (Material spec. number, grade)		<u>0.375 in</u> (Nominal thickness)		<u>0.000 in</u> (Corr. allow.)		<u>1' 8" (OD)</u> (Inner diameter)		<u>2' 1"</u> (Length (overall))		
7. Seams: <u>ERW</u> (Long. (welded, dbl., sngl., lap, butt))		<u>N/A</u> R.T.(Spot or Full)		<u>85%</u> Eff.(%)		<u>N/A</u> (H.T. temp)		<u>N/A</u> Time (hr)		<u>2</u> [Girth. (welded, dbl., sngl., lap, butt)]
								<u>N/A</u> [R.T. (spot or full)]		<u>65%</u> Eff(%)
										<u>1</u> No. of Courses
8. Heads: (a) Material <u>SA-516 Gr. 70 Normalized</u> (Spec. no., grade)										
(b) Material <u>SA-516 Gr. 70 Normalized</u> (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)	END	0.3125	0.000	N/A	N/A	2:1	N/A	N/A	N/A	Concave
(b)	END	0.3125	0.000	N/A	N/A	2:1	N/A	N/A	N/A	Concave
If removable, bolts used (describe other fastenings) <u>N/A</u> (Material spec. number, grade, size, number)										
9. MAWP <u>300 psi</u> (Internal)		<u>15 psi</u> (External)		at max. temp. <u>450 °F</u> (Internal)		<u>450 °F</u> (External)				
Min. design metal temp. <u>-50 °F</u>		at <u>300 psi</u>		Hydro, pneu., or comb. test pressure		<u>HYDRO at 450 psi</u>				
Proof test <u>N/A</u>										
10. Nozzles, inspection and safety valve openings:										
Purpose (Inlet, Outlet, Drain)	Number	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location		
Relief	1	1/2	Cplg	SA-105	3000#		Welded	Shell		
Float	2	3/4	Cplg	SA-105	3000#		Welded	Shell/Head		
Inlet	1	1-1/4	Cplg	SA-105	3000#		Welded	Head		
Inlet	1	3	Pipe	SA-106 Gr. B	S/40		Welded	Head		
Additional Nozzles - See Attached U-4...										
11. Supports: Skirt <u>N/A</u> Lugs <u>N/A</u> Legs <u>N/A</u> Other <u>(3) 1-1/2" Half Couplings</u> Attached <u>Welded---Head</u> (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: For use with Refrigerant/Oil. For noncorrosive service. Nozzle closures to be removed. UCS-66(b). Relief device to be installed by other than H.A. Phillips & Co. (Name of part, item number, Manufacturer's name and identifying stamp)										

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 No. 13303 expires April 15, 2012

Date 07/15/2010 Co. name H. A. Phillips & Co. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by H. A. Phillips & Co. at 1612 Louise Drive, South Elgin, Illinois, 60177, USA I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province WI, MN, IL, IA and employed by OneBeacon America Insurance Co., of Lynn, MA have inspected the component described in this Manufacturer's Data Report on July 15, 2010 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 07/15/2010 Signed [Signature] Commissions 11265AB, WI100009, MN036149-CO, IL2070, IA 1326
(Authorized Inspector) (National Board (incl. endorsements), State, Province and number)

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

1. Manufactured and certified by	<u>H. A. Phillips & Co., 1612 Louise Drive, South Elgin, Illinois, 60177, USA</u> (Name and address of Manufacturer)		
2. Manufactured for	<u>Stock, USA</u> (Name and address of Purchaser)		
3. Location of installation	<u>Not Known</u> (Name and address)		
4. Type	<u>Vertical</u> (Horizontal, vertical, or sphere)	<u>N/A</u> (Tank, separator, heat exch., etc.)	<u>W1006-1 to W1006-2</u> (Manufacturer's serial number)
	<u>N/A</u> (CRN)	<u>11760(Q)</u> (Drawing number)	<u>12539-12540</u> (National Board number)
			<u>2010</u> (Year built)
Data Report Item Number	Remarks		

Additional nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
Outlet	1	1-1/4	Cplg	SA-105	3000#		Welded	Head
Level Eye	2	1-1/2	Bar	SA-36	0.2		Welded	Shell

Certificate of Authorization: Type	<u>"U"</u>	No.	<u>13303</u>	Expires	<u>April 15, 2012</u>
Date	<u>07/15/2010</u>	Name	<u>H. A. Phillips & Co.</u> (Manufacturer)	Signed	<u>Michael A. Nien</u> (Representative)
Date	<u>07/15/2010</u>	Signed	<u>Ronald H. Hines</u> (Authorized Inspector)	Commissions	<u>11265AB, WI100009, MN036149-CO, IL2070, IA 1326</u> (National Board Authorized Inspector Commission number)