

105800

**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 Code Rules, Section VIII, Division 1**

Manufactured and certified by: Vernon Mfg. Co. 8375 S. 89 W. Ave. Tulsa, OK 74131  
(Name and address of manufacturer)

2. Manufactured for: Southwest Filter Co. P.O. Box 580608 Tulsa, OK 74158-0608  
(Name and address of purchaser)

3. Location of installation Giant Ind. Grafton, VA  
(Name and address)

4. Type: Vert. 072130-3,-4 D-10608 1118, 1119 2007  
(Horiz. or vert tank) (Htg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (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 2004  
Year

to 2006  
Addenda (Date)

6. Shell SA-106-C .375" .1250 1'-11.250" 6'-5"  
(Spec. No., Grade) (Nom. Thk (in.)) (Corr. Allow (in.)) (Diam., I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: S 1 Type 1 Spot 1  
(Long (Welded, Dbl. Singl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl. Singl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (No. of Course)

8. Heads: (a) Matl SA-105 (Bld. Flg.) (b) Matl SA-516-70  
(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/ Pressure (Convex /Concave)
(a)	Top	150#	.125						32"	Flat
(b)	Btm	.328"	.125			2:1				Concave

If removable, bolts used (describe other fastenings) (20) 1 1/4 x 7" Lg SA-193-B7 Studs w/2 SA-194 2H nuts each  
(Mat'l Spec. No., Grade, Size, No.)

9. MAWP 207 psi at max temp. 200 °F  
(Internal) (external) (Internal) (external)

Min. design metal temp. 0 °F at 207 psi. Hydro. pneu., or comb. test press. 269 psi

1. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl	Nom. Thk	Reinforcement Material	How Attached	Location
In/Outlet	2	8" 150#	RFLWN	SA-105/SA-106 C	.500	Integral	UW-16.1(c)	Shell
Drain	2	1.5" 300#	RFLWN	SA-105/SA-106 B	.630	Integral	UW-16.1(c)	Shell/Btm Hd
Vent	1	1.5 300#	RFLWN	SA-105	.630	Integral	UW-16.1(c)	Top Bld
Steamout	1	2" 300#	RFLWN	SA-105/SA-106 B	.660	Integral	UW-16.1(c)	Shell
RV	1	3" 150#	RFLWN	SA-105/SA-106 B	.438	Integral	UW-16.1(c)	Shell

11. Supports: Skirt NO Lugs 4 Legs Others Attached Wld to Shell/Btm Hd  
(Yes or No) (No.) (No.) (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:

**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 Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No. 20654  
expires 11-1-09  
Date 07-31-07 Co. Name Vernon MFG. Co. Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Vernon MFG. Co. at Tulsa, OK  
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 OKLAHOMA and employed by SENECA INSURANCE COMPANY OF HOUSTON, TEXAS  
have inspected the component described in this Manufacturer's Data Report on 7/31/07, and state that,  
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 this 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 7/31/07 Signed [Signature] Commissions NB/2997A OK939  
(Authorized Inspector) [Nat'l Board (incl endorsements) State, Prov. and No.]

105800

(Name and address of Manufacturer)

(Name and address of Purchaser)

(Name and address)

3251/3252

(Horiz., vert., or sphere)

(Tank separator, heat exh., etc)

(Mfg's serial No.)

(CRN)

D-10608

1118, 1119

2007

(Drawing No.)

(Nat'l. Bd. No.)

(Year built)

Remarks

Closure	1	24"	RFWN	SA-105	150#	Integral	UW-16.1(f)	Shell
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2009

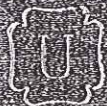

(Authorized Inspector)

NB12997A OK939

(Natl Board incl. endorsement, state, province and no.)



105800

 W RT-2	NB 1118		
	CERTIFIED BY VERNON MFG. CO TULSA, OKLAHOMA		
			
	207	PSIG. AT	200
	MIN. W.P. MAX. TEMP.		
	0	°F. AT	207 PSIG.
	MIN. DESIGN MIN. TEMP.		
	072130-3		2007
	MFG. SER. NO. YEAR BUILT		
	328	375	125
MIN. DET. THK. SHELL THK. CORR. ALLOW.			
ITEM J-677A			
SERVICE			
P.O. 56603-P-15-19			

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MODEL		241 VF		DATE	
SERIAL		3251		DESIGN	
NUMBER		225 PSIG/FV		TEMP	
DESIGN		358,352 LB/HR		200°F/366°F	
PRESS		CAPACITY		2007	
SOUTHWEST FILTER COMPANY					
TULSA, OKLA.					