

FORM U-2A MANUFACTURER'S PARTIAL DATA REPORT (ALTERNATIVE FORM)

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by Kirkwood Tank Co., Inc. 3237 North Lewis Tulsa, OK 74110
(Name and address of manufacturer)

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

3. Location of installation Not Known
(Name and address)

4. Type _____ K-91-381-1 _____ 1991
(Horiz. or vert. tank) (Mfg's serial No. of Part) (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 construction and workmanship conform to ASME Rules, Section VIII, Division 1 1989
Year

A-89 2053 _____
Addenda (date) Code Case No. Special Service per UG-120(d)

6. (a) Drawing prepared by None (b) Description of part inspected Rolled & Welded Cylinder

7. Postweld heat treatment: Temp. None °F Time _____

8. Shell: SA-516-70 .875 3'-0" 3'-7.875" 1
Matl. Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (Overall) (ft & in.) No. of Courses

9. Seams: Welded Dbl Butt Full 100 None
Long. R.T. Eff. (%) Girth R.T.

10. Heads: (a) Matl. None (Spec. No., Grade) (b) Matl. _____ (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)										
(b)										

If removable, bolts used (describe other fastenings) _____
(Matl., Spec. No., Gr., Size, No.)

11. MAWP _____ psi at max. temp. _____ °F. Min. design metal temp. _____ °F at _____ psi.
Hydro., pneu., or comb. test press. None psi in the _____ position

12. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
None								

13. Supports: Skirt No Lugs No Legs No Other None Attached _____

14. Remarks: _____
P.O. 6557KT
SHELL
ITEM No. 06F-101 B
SWECO SER. No. 2138
No Design Functions Performed

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel part conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

"U" Certificate of Authorization No. 5655 expires January 15, 1992
Date 7-23-91 Co. name Kirkwood Tank Co., Inc. Signed Steel Mfg's
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

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 Delta Lloyds Insurance Company

have inspected the pressure vessel part described in this Manufacturer's Data Report on 7-23, 19 91, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this part of a pressure vessel in accordance with the 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 part described in the 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 7-23-91, 19 91 Signed [Signature] Commissions 0612-98 Accepted
(Authorized Inspector) (Nat'l Board Incl. endorsement), State, Prov. and No.

#103378

911104

F101A

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(12/82)

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FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(Alternative 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 and certified by VERNON MFG. CO., 8375 S. 89TH 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 LA PORTE, TEXAS
(Name and address)
4. Type VERT 911104-1 D-6557 MTR 360 1991
(Horse, or vert., tank) (Mfg.'s serial No.) (C.N.N.) (Drawing No.) (Wt. or 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 1989
Year
to A-89 NONE NONE
Addenda (Date) Code Case Nos. Special Section per UG-120(d)
6. Shell: SA-516-70 .875 .125 3'-0" 8'-6"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
7. Seams: WLD. DBL. BUTT FULL 100 WLD. SNGL. BUTT SPOT 1
Long. (Welded, DM, Eng., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Diam. (Welded, DM, Eng., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses
8. Heads: (a) Matl. SA-516-70 (Spec. No., Grade) (b) Matl. SA-516-70 (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 in Pressure (Convex or Concave)
(a)	TOP	.837	.125			2:1				CONCAVE
(b)	BTM	.837	.125			2:1				CONCAVE

If removable, bolts used (describe other fastenings) (32) 1-3/8" X 14" LG. SA-193-B7 STUDS W/2 1-3/8" SA-194-2H HEX NUTS EA.
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 661 psi at max. temp. 250 °F
Min. design metal temp. 10 °F at 661 psi. Hydro. test pressure 992 psi.

10. Nozzles, Inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Matl.	Nom Thk	Reinforcement Matl.	How Attached	Location
IN/OUT	2	10" 300#	RFWN	SA-106-B	.594	SA-516-70	WELDED	SHELL
DRAIN	1	2" 300#	RFWN	SA-106-B	.343	WELD	WELDED	BTM HEAD
DRAIN	1	1"	RFLWN	SA-105	300#	WELD	WELDED	SHELL
CONTINUED ON ATTACHED SUPPLEMENTARY SHEET								

11. Supports: Skirt NO Lugs 3 Other WLD. TO SHELL/HEAD
(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: SHELL - KIRKWOOD TANK S/N K-91-381-2
(Name of part, item number, Mfg.'s name and identifying stamp)

CLOSURE FLANGES ARE 36" I.D. 300# RFWN SPECIAL ASME DESIGN FROM SA-350-LF2WL MATERIAL.

EXEMPT FROM IMPACT TESTING PER UG-20, PARA "F"

CERTIFICATE OF SHOP 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, 19 91
Date 9-18-91 Co. name VERNON MFG. CO. Signed Roman E. Biedel
(Manufacturer) (Representative)

CERTIFICATE OF SHOP 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 OK. and employed by DELTA LLOYDS INS. CO.
have inspected the component described in this Manufacturer's Data Report on 9-18, 19 91, 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 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 9-18-91 Signed D. K. [Signature] Commissions NB 8748 OK 127
(Inspector) (First Board (Ind. endorsement), State, Prov. and No.)

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