

1711
FORM U-1A MANUFACTURER'S 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

(A) 2768003

1. Manufactured and certified by SMITH INDUSTRIES, INC. FM 949 @ I-10 ALLEYTON, TEXAS 78935
(Name and address of manufacturer)

2. Manufactured for NORTHWEST PIPE AND SUPPLY
(Name and address of purchaser)

3. Location of installation UNKNOWN
(Name and address)

4. Type HORIZONTAL 93-153C K9110-2 D-3-11-162 23037 1993
(Horr. or vert. tank) (Mfg. serial No.) (CRN) (Drawing No.) (Net 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 1992
Year

to -----
Addenda (Date) Code Case Nos. Special Service per UG-126(d)

6. Shell: SA-516-70 0.375" -0- 96" OD 25'0"
(Matl. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. (D) (ft. & in.)) (Length overall (ft. & in.))

7. Seams: DOUBLE BUTT FULL 100% --- ----- DOUBLE/SINGLE FULL 3
(Long (Welded, Dbl. Engr. Lap, Butt)) (R.T. (Spot or Full)) (EN. (%)) (H.T. Temp. (F)) (Time (hr)) (Grth (Welded, Dbl. Engr. Lap, Butt)) (R.T. (Spot, Partial, or Full)) (No. of Courses)

8. Heads: (a) Matl. SA-516-70 (b) Matl. 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	Flat Diameter	Side to Measure (Convex or Concave)
(a) RIGHT	0.4375"	-0-	90"	6.125"	---	---	---	---	Concave
(b) LEFT	0.500"	-0-	---	---	2:1	---	---	---	Concave

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

9. MAMP 50 psi at max. temp. 300 °F
Min. design metal temp. -20 °F at 50 psi. Hydro., pres., or comb. test pressure 75 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
MANWAY	1	27"X63"	PLATE	SA-516-70	0.750"	INTEGRAL	WELDED	LEFT HEAD
MANWAY	1	18"	PLATE	SA-516-70	0.4375"	INTEGRAL	WELDED	RIGHT HEAD
DLC	1	8"	SHLS	SA-1068	0.718"	INTEGRAL	WELDED	RIGHT HEAD
INLET, O. OUT	2	6"	150#WN	SA-1068	0.432"	INTEGRAL	WELDED	SHELL/RT HD
W. OUT, ANODE	5	4"	150#WN	SA-1068	0.337"	INTEGRAL	WELDED	SHELL

11. Supports: Skirt ----- Lugs 2 Legs --- Other SADDLES Attached SHELL AND WELDED
(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: -----

(Name of part, item number, Mfg. name and identifying stamp)
GAS OUT 1 3" 150#WN SA-1068 0.300" INTEGRAL WELDED SHELL
LSH, OLC 2 2" CPLG SA-105 6000# INTEGRAL WELDED RIGHT HEAD

*FOR MORE INFORMATION SEE U-4

S/O 36856-0001

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. 12,985 expires 10-1-1992

Date: 4-7-93 Co. name SMITH INDUSTRIES, INC. Signed Way Stasewski
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by SMITH INDUSTRIES, INC. at FM 949 @ I-10 ALLEYTON, TEXAS 78935. 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 Texas and employed by OLD REPUBLIC INSURANCE CO. have inspected the component described in this Manufacturers' Data Report on 4-7-93, and state that, to the best of my knowledge and belief, the manufacturer has constructed this 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 described in this 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.

Date 4-7-93 Signed Way Stasewski Commissions "A" TEXAS 1421 NATIONAL BOARD 11119
(Authorized Inspector) (Not a Board rule and comments, State, Prov. and No.)

Part 1 (A) 2768003

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

1. Manufactured and certified by SMITH INDUSTRIES, INC. FM 949 @ 1-10 ALLEYTON, TEXAS 78935
(Name and address of Manufacturer)

2. Manufactured for NORTHWEST PIPE AND SUPPLY
(Name and address of Purchaser)

3. Location of installation UNKNOWN
(Name and address)

4. Type: HORIZONTAL HEATER TREATER 93-153C
(Horiz. or vert., sphere) (Tank, separator, heat exch., etc.) (Mfg's serial No.)
K9110.2 D-3-11-162 23037 1993
(CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

Date Report
Item Number

Remarks

#10 PURPOSE	NO.
DR. RV, LSL	5
PREHEAT PIPE	2
SPARE, SG	2
TSH, THERMOSTAT	2
THERMOMETER	1
FLC, S. PORT, GG	10

DIAM.	TYPE	MATERIAL	THICKNESS	REINFORCEMENT	ATTACHED	LOCATION
2"	CPLG	SA-105	3000#	INTEGRAL	WELDED	SHELL
1"	SMLS	SA-106B	0.358"	INTEGRAL	WELDED	RT HEAD
1"	CPLG	SA-105	6000#	INTEGRAL	WELDED	HEADS
1"	CPLG	SA-105	3000#	INTEGRAL	WELDED	SHELL
3/4"	CPLG	SA-105	6000#	INTEGRAL	WELDED	RT HEAD
1/2"	CPLG	SA-105	6000#	INTEGRAL	WELDED	RTHD/SHELL

96" OD X 25'0" HORIZONTAL HEATER TREATER
FOR NON-CORROSIVE SERVICE.
MDMT PER UG20(F).
0 36856-0001

Certificate of Authorization: Type U No. 12,989 Expires 1-10- 19 93

Date 4-7-93 Name SMITH INDUSTRIES, INC. Signed Ray Starinoha
(Manufacturer) (Representative)

Date 4-7-93 Name J. L. L. D. E. Commission TX 1421 NATL. BD. 11119 "A"
(Authorized Inspector) (Nat'l Board Incl. endorsement, State, Province, and No.)