

TREATER

## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternate 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

605487

1. Manufactured and certified by SIVALLS, INC. 2200 EAST SECOND STREET ODESSA, TEXAS 79761  
(Name and address of manufacturer)

2. Manufactured for Stock  
(Name and address of purchaser)

3. Location of Installation Unknown  
(Name and address)

4. Type: Horizontal 119055 4ANFL/CRN-V2198.234 E11167A1-1 17128 2011  
(Horiz. or vert. tank) (Mfr'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. 2010  
Year

Addenda (Date) N/A Code Case Nos. NONE Special Service per UG-120(d) NONE

6. Shell: SA-516-70-N .3125" 0.0" 8' 0" OD 30'-0" S/S  
(Mat'l. (Spec. No., Grade) Nom. thickness (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Dbl Butt None 70 NA NA Single Butt None 70 3  
Long. (Welded, Dbl., RT (Spot or Full) eff. (%) HT temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap. Butt) R.T. (Spot or Full) Eff. (%) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 (b) Mat'l. 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 to Pressure (Convex or Concave)
(a) <u>END</u>	<u>.4375"</u>	<u>0.0"</u>	<u>90</u>	<u>5-7/8"</u>					<u>CONCAVE</u>
(b) <u>END</u>	<u>.4375"</u>	<u>0.0"</u>	<u>90</u>	<u>5-7/8"</u>					<u>CONCAVE</u>

If removable, bolts used (describe other fastenings) N/A

9. MAWP: 75# NA psi at max. temp. 230 NA °F  
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 75# psi. Hydro., pneu., or comb test pressure 98# psi.

Proof Test NA

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
Inlet	1	6"	RFSO 150# SA-105/Pipe	SA-106-B	.280"	Inherent	Welded	Shell
Outlets	3	1 = 3" 2 = 4"	RFSO 150# SA-105/Pipe	SA-106-B	.280"/.237"	Inherent	Welded	Shell Head
Drain	1	3"	RFSO 150# SA-105/Pipe	SA-106-B	.216"	Inherent	Welded	Shell
Misc	13	1/2"	Long Couplings	SA 182-F304L	3000#	Inherent	Welded	Shell Head
Misc	5	1"	Long Couplings	SA 182-F304L	3000#	Inherent	Welded	Shell Head
Misc	4	1-1/2"	Long Couplings	SA 182-F304L	3000#	Inherent	Welded	Head
Misc	2	3"	RFSO 150# SA-105/Pipe	SA-106-B	.216"	Inherent	Welded	Shell
Misc	7	6 = 4" & 1 = 6"	RFSO 150# SA-105/Pipe	SA-106-B	.237" / .322"	Inherent	Welded	Shell Head
Manways/Blinds	2	18" shop fab	1" SA516-70 23" OD x 18" ID	SA-106-B	.500" & .750"	Inherent	Welded	Shell Head

11. Supports: Skirt No Lugs NA Legs NA Other Saddles Attached Welded Shell  
(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 this report: N/A  
(Name of part, item number, Mfr's name and identifying stamp)

(2) 18.750" x 65.375" FTBE MTG. 1.250" SA-516-70N Plate Neck 1.250" SA-516-70N Plate Neck INHERENT Welded Head

APPLICABLE PARAGRAPHS UG-20(f) Not for Lethal or Corrosive Service UCS-66(c)

VESSEL IS A HORIZONTAL TREATER JOB ORDER: 71785

## 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. 4281 expires 6-02-2014.

Date July 19, 2011 Co. name Sivalls, Inc.

(Manufacturer)

Signed Wayne Hill

(Representative)

## CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Sivalls, Inc. at Odessa, TexasI, 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 HSB CT

of Connecticut have inspected the component described in this Manufacturers' Data Report on July 19, 2011 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 the 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 July 19, 2011Signed Raymond J. Non

(Authorized Inspector)

Commissions

Nat'l Bd. 12612A Tx. 1723

(Nat'l Bd. (incl. endorsements), State, Prov., and No.)

FIRETUBE

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternate 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

1. Manufactured and certified by SIVALLS, INC. 2200 EAST SECOND STREET ODESSA, TEXAS 79761  
 (Name and address of manufacturer)

2. Manufactured for Stock  
 (Name and address of purchaser)

3. Location of Installation Unknown  
 (Name and address)

4. Type: Horizontal 119056 V2198.234 E1116800-4 17129 2011  
 (Horiz. or vert. tank) (Mfr'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. 2010  
 Year

6. Shell: N/A NONE NONE  
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)

7. Seams: Smls Pipe None 85 NA NA Single Butt None 70 5  
 Long. (Welded, Dbl., Sngl., Lap. Butt) RT (Spot or Full) eff. (%) HT temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap. Butt) R.T. (Spot or Full) Eff. (%) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 (b) Mat'l. NA  
 (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) <u>END</u>	<u>1.625"</u>	<u>0.0"</u>					<u>33.375"</u>	<u>65.375"</u>	<u>FLAT</u>
(b) <u>NA</u>									<u>NA</u>

If removable, bolts used (describe other fastenings) N/A

9. MAWP: NA 75# EXT psi at max. temp. NA 300 °F  
 (internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 75# EXT psi. Hydro., pneu., or comb test pressure 98# External psi.

Proof Test NA

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location

11. Supports: Skirt No Lugs NA Legs NA Other NA Attached Bolted Into Vessel Shell  
 (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 this report: N/A  
 (Name of part, item number, Mfr's name and identifying stamp)

APPLICABLE PARAGRAPHS UG-20(f)

Not for Lethal Service

VESSEL IS A FIRETUBE

JOB ORDER: 71785

**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. 4281 expires 6-02-2014.

Date July 19, 2011 Co. name Sivalls, Inc.  
 (Manufacturer)

Signed Wayne May  
 (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Sivalls, Inc. at Odessa, Texas

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 HSB CT

of Connecticut have inspected the component described in this Manufacturers' Data Report on July 19, 2011 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 the 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 July 19, 2011

Signed David L. Ron

(Authorized Inspector)

Commissions Nat'l Bd. 12612A Tx. 1723

[Nat'l Bd. (incl. endorsements), State, Prov., and No.]