

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

1. Manufactured and certified by Industrial Service & Fabricators, Inc., 1425 South Burleson Boulevard, Burleson, Texas USA 76028
 (Name and address of manufacturer)

2. Manufactured for Shambaugh & Sons, LP, 7614 Opportunity Drive, Fort Wayne, IN 46825
 (Name and address of purchaser)

3. Location of installation Unknown
 (Name and address)

4. Type: Horizontal tank 14-10598 --- 10433-1 10260 2014
 (Horiz. or Vert., tank) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. ASME Code, Section VIII Division 1 2013 --- ---
 (Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell SA-516-70 0.375" 0 3' 0" OD 13' 1.5"
 (Material spec. number, grade) (Nominal Thickness (in.)) (Corrosion Allowance (in.)) (Diameter, I.D. (ft. & in.)) (Length (overall) (ft. & in.))

Body Flanges on Shells

No.	Type	ID	OD	Flange Thickness	Min Hub Thickness	Material	How Attached	Location	Bolting				
									No. & Size	Bolt. Mat'l	Washer (OD, ID, thk.)	Washer Mat'l	
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7. Seams: Wld., Dbl. Butt Spot 85% --- --- Wld., Sngl. Butt, Spot 80% 2
 Type 2
 (Long (Wld, Dbl., Sngl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (oF)) (Time (hr)) (Grth (Welded, Dbl. Sngl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (No. of Courses)

8. Heads: (a) Material SA-516-70 (b) Material ---
 (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)	Ends	0.3125"	0	---	---	2:1	---	---	---	Concave
(b)	---	---	---	---	---	---	---	---	---	---

Body Flanges on Heads

	Location	Type	ID	OD	Flange Thick.	Min. Hub Thk.	Material	How Attached	Bolting				
									No. & Size	Bolt. Mat'l	Washer (OD, ID, thk.)	Washer Mat'l	
(a)	---	---	---	---	---	---	---	---	---	---	---	---	---
(b)	---	---	---	---	---	---	---	---	---	---	---	---	---

9. MAWP 250 0 psi. at max temp. 200 0 °F
 (internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 250 psi. Hydro., pneum., comb test press. 375 psi. Proof Test ---

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, etc.)	No.	Diam. / Size	Type	Material		Nozzle Thick.		Reinforce. Material	Attachment Details		Location (Inspect. Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	2	4"	Pipe	SA-106B	---	0.337"	0	Inherent	Welded	---	Shell
Outlet	1	2.5"	Pipe	SA-106B	---	0.276"	0	Inherent	Welded	---	Shell
Relief, Purge	2	1.5"	Cplg.	SA-105	---	3000#	0	Inherent	Welded	---	Shell
Lvl. Column, Drain	3	0.75"	Cplg.	SA-105	---	3000#	0	Inherent	Welded	---	End, Shell

11. Supports: Skirt No Lugs --- Legs --- Other Saddle Supports (2) Attached Shell, 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: None
 (Name of part, item number, Mfg's name and identifying stamp)

For Non-Corrosive Service
 M.D.M.T. Per UG 20 (f)
 Designed Per UG 22 (a)

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. 24,474 expires August 23, 2016

Date 10/7/14 Co. name Industrial Service & Fabricators, Inc. Signed [Signature]
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Industrial Service & Fabricators, Inc. at Burleson, TX. I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by OneCIS Insurance Company of Lynn, MA have inspected the component described in this Manufacturer's Data Report on 10-7-14, 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 10-7-14 Signed [Signature] Commissions NB14120A
 (Authorized Inspector) (Nat'l Board (include endorsements))