

**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 KW International, LLC 200 Texas Avenue Columbus, Texas 78934  
(Name and address of Manufacturer)

2. Manufactured for \_\_\_\_\_  
(Name and address of Purchaser)

3. Location of installation Unknown  
(Name and address)

4. Type: Horizontal 13370-C --- SLUGC0018 429 2014  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year Built)

5. ASME Code, Section VIII, Division 1 2010/A11 2235-9 ---  
(Edition and Addenda, if applicable (date)) (Code Case numbers) (Special service per UG-120(d))

6. Shell \*SA-516-70N 2.00" --- 72" OD 12'-0"  
(Material spec. number, grade) (Nominal thickness) (Corr. Allow.) (Inner diameter) (Length overall)

Body Flanges on Shells												
No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting			
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material

7. Seams Type 1 Full 100% 1150 2:00 Type 1 Full 100% 2  
(Long. (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (H.T. temp.) (Time, hr) (Girth. (welded, dbl., singl., lap, butt)) (R.T. (spot or full)) (Eff., %) (No. of courses)

8. Heads: (a) Material SA-516-70N (b) Material SA-516-70N  
(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 (Concave or Convex)
(a)	Top	1.875"	---	---	---	2:1	---	---	---	Concave
(b)	Bottom	1.875"	---	---	---	2:1	---	---	---	Concave

Body Flanges on Heads												
	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Num & Size	Bolting Material	Bolting	
											Washer (OD, ID, thk)	Washer Material
(a)												
(b)												

9. MAWP 1040 --- PSI at max. temp. 130 --- °F  
(Internal) (External) (Internal) (External)

Min. design metal temp. -3 °F at 1040 PSI. Hydro. , pneu. or comb. test pressure 1560 PSI

Proof Test ---

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Service	2	12" 600#	RFLWN	SA-350-LF2	---	1.88"	0	---	Welded	---	Head/Shell
Service	2	6" 600#	RFLWN	SA-105	---	1.38"	0	---	Welded	---	Head
Service	2	4" 600#	RFHB	SA-105	---	1.62"	0	---	Welded	---	Shell
Service	2	2"	CPLG	SA-105	---	3000#	0	---	Welded	---	Shell
Service	2	2"	CPLT	SA-105	---	3000#	0	---	Welded	---	Shell
Service	2	3/4"	CPLG	SA-105	---	3000#	0	---	Welded	---	Shell
Service	1	3/4"	CPLT	SA-105	---	3000#	0	---	Welded	---	Shell
Service	1	1/2"	CPLT	SA-105	---	3000#	0	---	Welded	---	Shell

11. Supports: Skirt No --- Legs --- Others --- Saddles --- Attached --- Welded to Shell  
(Yes or No) (Number) (Number) (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 S/N: 13-1548, 13-1549, Texas Steel Processing, Inc. Cert. No. 36,442.

(Name of part, item number, Manufacturer's name and identifying stamp)

Impact Testing Emempt per UCS-66(a)

FORM U-1A (Back)

**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 "U" Certificate of Authorization Number 43,196 expires May 14, 2015.

Date 4-29-14 Co. Name KW International, LLC Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by KW International, LLC at 200 Texas Avenue Columbus, Texas 78934

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by TUV Rheinland AIA Services, LLC

have inspected the component described in this Manufacturer's Data Report on 4-29-14, 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 04.29.2014 Signed [Signature] Commissions NB# 14792 A-  
(Authorized Inspector) (National Board (incl endorsements))