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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
2. Manufactured for Stock
3. Location of installation Unknown
4. Type: Horizontal 1480171-C --- SEPHZ0033 544 2014
5. ASME Code, Section VIII, Division 1 2013 2235-9 ---
6. Shell \*SA-516-70N 1.5" 0 42" OD 10'-0"

Table with 14 columns: No., Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Location, Num & Size, Bolting Material, Washer (OD, ID, thk), Washer Material. Title: Body Flanges on Shells

7. Seams Type 1 Full 100% 1150 1:45 Type 1 Full 100% 1
8. Heads: (a) Material SA-516-70N (b) Material SA-516-70N

Table with 11 columns: 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). Rows (a) Left, (b) Right.

Table with 14 columns: Location, Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Num & Size, Bolting Material, Washer (OD, ID, thk), Washer Material. Title: Body Flanges on Heads

9. MAWP 1440 --- PSI at max. temp. 130 --- °F
Min. design metal temp. -15 °F at 1440 PSI. Hydro., pneu. or comb. test pressure 1872 PSI
Proof Test ---

10. Nozzles, inspection, and safety valve openings:

Table with 11 columns: Purpose (Inlet, Outlet, Drain, etc), No., Diameter or Size, Type, Material (Nozzle, Flange), Nozzle Thickness (Nom., Corr.), Reinforcement Material, Attachment Details (Nozzle, Flange), Location (Insp. Open.).

11. Supports: Skirt No Lugs --- Legs --- Others Saddles Attached Welded to Shell

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: 2371-011, Greens Bayou Pipe Mill. Cert. No. 42,546.

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 8-19-14 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 8-19-2014, 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 9-15-2014 Signed [Signature] Commissions NB14792 Ar  
(Authorized Inspector) (National Board (incl endorsements))

NB 544

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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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Greens Bayou Pipe Mill 13935 Industrial Road Houston, Texas 77015
2. Manufactured for Northshore Supply 13935 Industrial Road Houston, Texas 77015
3. Location of installation Unknown
4. Type 11 Shell 2371-001 thru 2371-011
5. ASME Code, Section VIII, Div. 1 2010/A11
6. Shell: (a) Number of course(s) 1 (b) Overall length 10'-0"

Table with columns: Course(s), Material, Thickness, Long. Joint (Cat. A), Circum. Joint (Cat. A, B & C), Heat Treatment. Row 1: 1, 42" OD, 10'-0", SA516-70N, 1.50", 1, Full.

7. Heads: (a) (Material spec. number, grade or type) (H.T. -- time and temp.) (b) (Material spec. number, grade or type) (H.T. -- time and temp.)
Table with columns: Location (Top, Bottom, Ends), Thickness, Radius, Elliptical Ratio, Conical Apex Angle, Hemispherical Radius, Flat Diameter, Side to Pressure, Category A.

8. MAWP at max. temp. Min. design metal temp. at
9. Impact test at test temperature of
10. Hydro., pneu., or comb. test pressure None Proof test

11. Nozzles, inspection, and safety valve openings:
Table with columns: Purpose (Inlet, Outlet, Drain, etc.), No., Diameter or Size, Type, Material (Nozzle, Flange), Nozzle Thickness (Nom., Corr.), Reinforcement Material, Attachment Details (Nozzle, Flange), Location (Insp. Open.)

12. Identification of part(s)
Table with columns: Name of Part, Quantity, Line No., Mfr's. Identification No., Mfr's. Drawing No., CRN, National Board No., Year Built

13. Supports: Skirt. No Lugs (Number) Legs (Number) Other (Describe) Attached (Where and how)
14. Remarks \* No Design Functions by Greens Bayou Pipe Mill

CERTIFICATE OF SHOP/FIELD COMPLIANCE
We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this pressure vessel part conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.
U Certificate of Authorization No. 42.546 Expires 01/19/2015
Date 12/8/13 Name Greens Bayou Pipe Mill Signed [Signature]
CERTIFICATE OF SHOP/FIELD 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 Texas and employed by TUV Rheinland AIA Services, LLC of Houston, Texas
have inspected the pressure vessel part described in this Manufacturer's Data Report on 12/9/13
and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel part in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1.
Date 12/9/13 Signed [Signature] Commissions NB19166A-B