

KPE  
Project No.  
021-009-001  
PO No.

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 Summit Energy Equipment, 41 HC Pioneer Pkwy., Sulphur Springs, Texas, 75482, USA  
(Name and address of Manufacturer)

2. Manufactured for KP ENGINEERING, 5555 OLD JACKSONVILLE HWY, TYLER, Texas, 75703, USA  
(Name and address of Purchaser)

3. Location of Installation NOT KNOWN  
(Name and address)

4. Type VERTICAL 11397 N/A 200-021-006-001-01 104 2016  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

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

6. Shell: SA516 GR70N 0.5" 0.125 in 2' (OD) 8'  
(Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) [Length (overall)]

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

7. Seams: TYPE 1 SPOT 85% N/A N/A TYPE 1 SPOT 85% 1  
[Long. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (H.T. temp) (Time, hr) [Girth. (welded, dbl., sngl., lap, butt)] [R.T. (spot or full)] (Eff. %) (No. of courses)

8. Heads: (a) Material SA516 GR70N (b) Material SA516 GR70N  
(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)	TOP	0.4375"	0.125"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b)	BOTTOM	0.4375"	0.125"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE

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

9. MAWP 394 psi 14.7 psi at max. temp. 600 °F 300 °F  
(Internal) (External) (Internal) (External)

Min. design metal temp. -20 °F at 394 psi . Hydro, pneu., or comb. test pressure HYDRO at 580 psi .

Proof test N/A .

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	
EXT.	6	2"-300	RFLWN	SA105	SA105	0.655"	0.125"	INHERENT	UW-16.1c	N/A	N/A
HANDHOLE (H)	1	10" - 300	RFLWN	SA105	SA105	1.31"	0.125"	INHERENT	UW-16.1c	N/A	CYLINDER #1
RELIEF (R)	1	3" -300	RFLWN	SA105	SA105	0.81"	0.125"	IINHERENT	UW-16.1h	N/A	N/A
LIQUID OUTLET (B)	1	2"-300	RFLWN	SA106B	SA105	0.344"	0.125"	INHERENT	UW-16.1c	N/A	N/A


11. Supports: Skirt N/A Lugs N/A Legs 4 Other N/A Attached ELLIPSOIDAL HEAD #1 - WELDED  
(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 BY GREENS BAYOU PIPE MILL, HOUSTON, TX (CERT 42546) S/N 6265-001  
(Name of part, item number, Manufacturer's name and identifying stamp)

**IMPACT TESTING EXEMPT Ug-20 (f)**  
**FOR NON-LETHAL SERVICE**  
**OVER PRESSURE PROTECTION BY OTHERS**

## 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 Number 43067 expires May 14, 2018.

Date 03/11/2016 Co. name Summit Energy Equipment Signed   
(Manufacturer) (Representative)

## CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Summit Energy Equipment at 41 HC Pioneer Pkwy., Sulphur Springs, Texas, 75482, USA  
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 March 11, 2016, 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 04/12/2016 Signed  Commissions 11944AB  
(Authorized Inspector) [National Board (incl. endorsements)]

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 1 Shell
5. ASME Code, Section VIII, Div. 1 2013
6. Shell: (a) Number of course(s) 1 (b) Overall length 8'-0"

Table with columns: Course(s), Material, Thickness, Long. Joint (Cat. A), Circum. Joint (Cat. A, B & C), Heat Treatment. Includes rows for No., Diameter, Length, Spec./Grade or Type, etc.

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

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 for head specifications with columns: Location (Top, Bottom, Ends), Thickness (Min, Corr), Radius (Crown, Knuckle), Elliptical Ratio, Conical Apex Angle, Hemispherical Radius, Flat Diameter, Side to Pressure (Convex, Concave), Category A (Type, Full, Spot, None, Eff).

Table titled 'Body Flanges on Heads' with columns for Location, Type, ID, OD, Flange Thk, Min Hub Thk, Material, How Attached, Bolting (Num & Size, Bolting Material, Washer, Washer Material).

8. MAWP at max. temp. Min. design metal temp. at

9. Impact test at test temperature of

10. Hydro., pneu., or comb. test pressure Proof test

11. Nozzles, inspection, and safety valve openings:

Table for nozzle details 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 for part identification 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 Lugs Legs Other Attached

14. Remarks

\*No Design Functions by Greens Bayou Pipe Mill. WPS is qualified with and without PWHT. Formed in Accordance with UG 79, UG 80 and UCS 79.

FORM U-2A (Back)

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 01/19/2018  
Date 11/30/2015 Name Greens Bayou Pipe Mill Signed [Signature] (Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by Authorized Inspection Associates, LLC of Houston, Texas

have inspected the pressure vessel part described in this Manufacturer's Data Report on 11/30/2015 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. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel part 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 11/30/2015 Signed [Signature] Commissions NB13919A (Authorized Inspector) (National Board [incl. endorsements])

(07/13)

NB-104  
Shell