

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS File # E13-002
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

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1. Manufactured and certified by: CAMERON Solutions, Inc. Highway 287 East Electra, Texas 76360
(Name and address of manufacturer)

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

3. Location of installation: Unknown

4. Type: Vertical A14312000451001 --- D-99433 R 12 58126 2013
(Horizontal or vertical tank) (Manufacturer's serial Number) (CRN) (Drawing number) (National Board number) (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

to A11 --- ---
Addenda (Date) (Code Case numbers) (Special Service per UG-120 (d))

6. Shell SA-516 Gr. 70N 1.75" None 48"OD 10'-0" S/S
Material spec. number, grade) Nominal thickness (Corr. allow) (Inner diameter) Length (overall)

7. Seams: Dbl Butt Full 100% 1150°F 1 3/4 hr Dbl Butt Full 100% 1
[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 course

8. Heads: (a) Material SA-516 Gr. 70N (b) Material ---
(Spec. number, grade) (Spec. number, grade)

	Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)	
		Min.	Corr.	Crown	Knuckle						
(a)	Top-Btm	1.63"	---	---	---	2:1	---	---	---	---	X
(b)											

If removable, bolts used (describe other fastenings) N/A
(Material spec. number, grade, size, number)

9. MAWP 1440 psig N/A at max temp. 130° F N/A
(Internal) (External) (Internal) (External)

Min. design metal temp. -10°F at 1440psig Hydro., pneu. or comb. test pressure 1872 psig

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	How Attached		Location (Insp. Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
In-Out	2	8"	CL600RFLWN	SA105	SA105	1.38"	---	weld	c*	c*	Hd-Shell
Level Control	1	4"	Hammer Union	SA-106C		.813	---	weld	c*	---	Shell
Liquid Outlet	1	4"	CL600RFLWN	SA105	SA105	1.0"	---	weld	c*	c*	Shell
LSH-LSL-Drn-Rel	4	2"	Spec Bevel Cplg	SA105	---	6000#	---	weld	bb*	---	Shell
Level Gauge	2	3/4"	Spec Bevel Cplg	SA105	---	6000#	---	weld	bb*	---	Shell
PI-Supply Gas	2	1/2"	Spec Bevel Cplg	SA105	---	6000#	---	weld	bb*	---	Shell

11. Supports: Skirt Yes Lugs --- Legs --- Others --- Attached --- Welded to btm head ---
(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: Shell S/N 1547-002, Greens Bayou Pipe Mill, Certificate # 42546
(Name of part, item number, Manufacturer's name and identifying stamp)

48"OD X 10'-0" S/S X 1440# Vertical 2/ph Separator. *UW-16.1. Vessel constructed with no corrosion allowance.

No CHARPY per UG-20(f), UCS-66(a) and UCS-66(c)

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. 10,761 expires 12/31/2015

Date 1-4-13 Co. Name CAMERON Solutions, Inc. Signed Jerry Southland
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by CAMERON Solutions, Inc. at Business Hwy 287 East, Electra 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 One CIS Insurance Company Lynn, Mass.

have inspected the component described in this Manufacturer's Data Report on 1/4/13, 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 this 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 1/4/13 Signed Don Taylor Commissions NB 9502A/B, TX 1082
(Authorized Inspector) [National Board (incl endorsements) State, Prov. and number]

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

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1. Manufactured and certified by Greens Bayou Pipe Mill 13935 Industrial Road Houston, Texas 77015
(Name and address of Manufacturer)

2. Manufactured for North Shore Supply 13935 Industrial Road Houston, Texas 77015
(Name and address of Purchaser)

3. Location of installation Unknown

4. Type 5 Shell (Name and address) 1547-001 thru 1547-005
(Description of vessel part (shell, two-piece head, tube bundle)) (Manufacturer's serial number)

5. ASME Code, Section VIII, Div. 1 2010/A11 (Drawing number) 2714 (Drawing prepared by) 2012 (Year built)
(Edition and Addenda, if applicable (date)) (Code Case number) (Special service per UG-120(d))

6. Shell: (a) Number of course(s) 1 (b) Overall length 10'-0"

Course(s)			Material		Thickness		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
No.	Diameter	Length	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot, None	Eff.	Type	Full, Spot, None	Eff.	Temp.	Time	
1	48" OD	10'-0"	SA516-70N	1.75"	.	.	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.)

Location (Top, Bottom, Ends)	Thickness		Radius		Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure		Category A	
	Min.	Corr.	Crown	Knuckle					Convex	Concave	Type	Full, Spot, None
(a)												
(b)												

If removable, bolts used (describe other fastening)

8. MAWP at max. temp. Min. design metal temp. at
(Internal) (External) (Internal) (External)

9. Impact test Yes - Base, Weld, Haz at test temperature of -20 F
(Indicate yes or no and the component(s) impact tested)

10. Hydro., pneu., or comb. test pressure None Proof test

11. 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	

12. Identification of part(s)

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 Legs Other Attached
(Yes or no) (Number) (Number) (Describe) (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 5/17/2012 Name Greens Bayou Pipe Mill Signed Walter B...
(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/or the State or Province of Seneca Insurance Company of Houston, Texas and employed by of

have inspected the pressure vessel part described in this Manufacturer's Data Report on 5/17/12 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 5/17/12 Signed Commissions NB14166A-
(Authorized Inspector) (National Board (incl. endorsements), State, Province, and number)