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 **Chart Cooler Service Company, Inc., 3515 Dawson Road, Tulsa, Oklahoma, 74115**
(Name and address of Manufacturer)

2. Manufactured for **Gregory Gas Processing Equipment LLC, 8915 N Harrison, Shawnee, Oklahoma, 74804**
(Name and address of Purchaser)

3. Location of Installation **Not Known**
(Name and address)

4. Type **Air Cooled Heat Exch** (Horizontal or vertical, tank) | **15316-1** (Manufacturer's serial number) | **N/A** (CRN) | **15316-1-2** (Drawing number) | **19055** (National Board number) | **2016** (Year built)

5. ASME Code, Section VIII, Division 1 | **2015/ N/A** [Edition and Addenda, if applicable (date)] | **N/A** (Code Case numbers) | **N/A** (Special service per UG-120(d))

6. Shell: **SA-516 70** (Material spec. number, grade) | **1.625 / .75** (Nominal thickness) | **0 in** (Corr. allow.) | **N/A** (Inner diameter) | **N/A** [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

7. Seams: **Corner Joint** [Long. (welded, dbl., sngl., lap, butt)] | **N/A** [R.T.(spot or full)] | **C=.20** (Eff.,%) | **N/A** (H.T. temp) | **N/A** (Time, hr) | **N/A** [Girth. (welded, dbl., sngl., lap, butt)] | **N/A** [R.T. (spot or full)] | **N/A** (Eff., %) | **N/A** (No. of courses)

8. Heads: (a) Material **SA-516 70** (Spec. no., grade) (b) Material **SA-516 70** (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 / Bottom**	**.5"**	**0"**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**94.375" X 2.6875"**	**N/A**
(b)	**Ends**	**.5"**	**0"**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**7.1875" X 2.6875"**	**N/A**

Body Flanges on Heads												
									Bolting			
	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

9. MAWP **950 psi** (Internal) | **N/A** (External) at max. temp. **450 °F** (Internal) | **N/A** (External)

Min. design metal temp. **20 °F** at **950 psi** . Hydro, pneu., or comb. test pressure **HYDRO at 1235 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	
Inlet	**1**	**3" 600#**	**RFWN**	**SA-106 B**	**SA-105**	**Sch. 80**	**0"**	**Integral**	**UW16.1a**	**UW16.1a**	**Wrapper**
Outlet	**1**	**3" 600#**	**RFWN**	**SA-106 B**	**SA-105**	**Sch. 80**	**0"**	**Integral**	**UW16.1a**	**UW16.1a**	**Wrapper**
Vent / Drain	**2**	**1"**	**Full CPLG**	**SA-105**	**N/A**	**6000#**	**0"**	**Integral**	**UW16.1a**	**UW16.1a**	**Wrapper**
Inspection	**372**	**.875**	**SHLD**	**SA-105**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**Plugsheet**

11. Supports: Skirt **No** (Yes or no) Lugs **4** (Number) Legs **None** (Number) Other **Nameplate Bracket** (Describe) Attached **Header / Welded** (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:

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

Line 6 - -Tube and Plug Dimensions OR Header Dimensions: 8.5" X 6.1875" X 7' 10.375"
Straight length of tubes, OR, Distance between the headers: 10' 0.0"
1. Constructed per appendix 28, 2.No relief device per UG-125 (f), 3. Impact testing exempt per UCS-66, 4. Tube .75" X .083 MW SA-214 Quantity 186, 5. Service "Natural Gas",

FORM U-1A (Back) | **NB Number 19055**

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 **36229** expires **November 30, 2018**.

Date **08/09/2016** Co. name **Chart Cooler Service Company, Inc.** (Manufacturer) Signed _____ (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by **Chart Cooler Service Company, Inc.** at **3515 Dawson Road, Tulsa, Oklahoma, 74115**

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 August 10, 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 08/10/2016 Signed John Ash (Authorized Inspector) Commissions 15649Ar [National Board (incl. endorsements)]