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JB 7-23-19

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 UMC Energy Solutions Inc 3201 N. Sylvania Ave. Bldg. 601 Fort Worth, TX 76111

(Name and address of Manufacturer)

2. Manufactured for Coldstream Energy 13140 Coit Road, Suite 475 Dallas, TX 75240

(Name and address of Purchaser)

3. Location of installation Unknown

(Name and address)

4. Type Horizontal 53853 N/A UMC-53853-PPA 120 2018

(Horizontal or vertical, tank)

(Manufacturer's serial number)

(CRN)

(Drawing number)

(National Board number)

(Year built)

5. ASME Code, Section VIII, Div. 1 2017 None None

[Edition and Addenda, if applicable (date)]

(Code Case number)

[Special service per UG-120(d)]

6. Shell SA-106 Gr. B 1.25" .0625 27.5" 96"

(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 SBW RT-2 100% N/A N/A SBW N/A 100 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 (b) Material

(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	1.25"	.0625"			2:1				Concave
(b)	Bottom	1.25"	.0625"			2:1				Concave

Body Flanges on Heads

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

9. MAWP 1420 PSI -- at max. temp. 100°F --

(Internal)

(External)

(Internal)

(External)

Min. design metal temp. -20°F at 1420 PSI. Hydro., pneu., or comb. test pressure 1846 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	
See											
Form U-4											
Attached											

11. Supports: Skirt NO Lugs 2 Legs 2 Other Attached TOP-BOTTOM SHELL/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: Exempt From Notch Toughness Per UG-20(F)

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

See Form U-4 Attached

Oct
7-23-19

FORM U-1A

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Manufactured by UMC Energy Solutions Inc
Manufacturer's Serial No. 53853 CRN _____ National Board No. 120

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 U-47810
expires 7/11/2020.

Date 1/31/19 Co. name UMC Energy Solutions Inc Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by UMC Energy Solutions Inc at Fort Worth, TX

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by ARISE Boiler Inspection And Insurance Company of Cleveland, OH

have inspected the component described in this Manufacturer's Data Report on 1-31-19, 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 1-31-19 Signed [Signature] Commissions 730615
(Authorized Inspector) (National Board Authorized Inspector Commission number)

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FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by UMC Energy Solutions Inc 3201 N. Sylvania Ave. Bldg. 601 Fort Worth, TX 76111
(Name and address of Manufacturer)

2. Manufactured for Coldstream Energy 13140 Coit Road, Suite 475 Dallas, TX 75240
(Name and address of Purchaser)

3. Location of installation Unknown
(Name and address)

4. Type Horizontal Slug Catcher 53853
(Horizontal, vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturer's serial number)

N/A UMC-53853-PPA 120 2018
(CRN) (Drawing number) (National Board number) (Year built)

Data Report Item Number	Remarks						
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N1/Inlet	1 - 4" 600# RFLWN	SA-106	0.674"	Integral Welded	UW-16.1(C)	Shell	
N2/Outlet	1 - 4" 600# RFLWN	SA-106	0.674"	Integral Welded	UW-16.1(C)	Shell	
N3/Primary Drain / Inspection	1 - 2" CPLG 6000#	SA-105	0.625"	Integral Welded	UW-16.1(C)	Shell	
N4/Level Control	1 - 2" CPLG 6000#	SA-105	0.625"	Integral Welded	UW-16.1(C)	Head	
N5/Level Gauge	1 - 3/4" CPLG 6000#	SA-105	0.350"	Integral Welded	UW-16.1(C)	Shell	
N6/Level Gauge	1 - 3/4" CPLG 6000#	SA-105	0.350"	Integral Welded	UW-16.1(C)	Shell	
N7/Relief Valve	1 - 2" CPLG 6000#	SA-105	0.625"	Integral Welded	UW-16.1(C)	Shell	
N8/Secondary Drain / Inspect.	1 - 2" CPLG 6000#	SA-105	0.625"	Integral Welded	UW-16.1(C)	Shell	
N9/Level Control	1 - 2" CPLG 6000#	SA-105	0.625"	Integral Welded	UW-16.1(C)	Shell	
1 - 30"O.D. X 96" S/S Horizontal Slug Catcher. Over Pressure Protection required by UG-125 to be provided by user. Non-Lethal & Non-Corrosive Service. UG-22 Additional Loadings not applicable. Exempt from Charpy Impact Test per UG-20(F), UCS-66, & UCS-66(B).							
Note: Vessel was tested in Horizontal Position.							

Certificate of Authorization: Type "U" No. U-47810 Expires 07/11/2020

Date 1/31/19 Name UMC Energy Solutions Inc Signed [Signature]
(Manufacturer) (Representative)

Date 1-31-19 Name [Signature] Commissions 7306 B
(Authorized Inspector) (National Board (incl. endorsements))