

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 Page 1 of 2

1. Manufactured and certified by **River Bend Industries, LLC, 1700 Crystal Lake Drive, Blanchard, Oklahoma, 73010, USA**
(Name and address of Manufacturer)

2. Manufactured for **UNKNOWN BUILT FOR STOCK**
(Name and address of Purchaser)

3. Location of Installation **UNKNOWN BUILT FOR STOCK**
(Name and address)

4. Type **Vertical** **6399** **N/A** **60250300 REV-1** **6399** **2025**
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)

5. ASME Code, Section VIII, Division 1 **2023/ N/A** **N/A** **N/A**
[Edition and Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]

6. Shell: **SA-106 C** **3.5"** **0"** **24.0" (OD)** **8' 0.0"**
(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
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 S SMLS** **N/A** **85%** **NONE** **N/A** **TYPE 1***** **FULL** **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) **SA-516 (70) N** (b) **SA-516 (70) N**
(Material spec. number, grade or type) (H.T. - time and temp.) (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	Eff.
(a)	TOP	1.25"	0	8.5"	0	0	0	8.5"	N/A		X	None	N/A	100%
(b)	BOTTOM	1.25"	0	8.5"	0	0	0	8.5"	N/A		X	None	N/A	100%

Body Flanges on Heads												
No.	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting			
									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 **5000 psi** **0 psi** at max. temp. **200 °F** **0 °F**
(Internal) (External)

Min. design metal temp. **-20**** at **5000 psi** . Hydro, pneu., or comb. test pressure **HYDRO at 6500 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, Gas Outlet	2	3"	Pipe	SA-106 C	N/A	0.600"	0	Inherent	UW-16.1(l)	N/A	Head/Shell
Drain	1	2"	Pipe	SA-106 C	N/A	0.436"	0	Inherent	UW-16.1(l)	N/A	Head
*Relief	2	2"	Pipe	SA-106 C	N/A	0.436"	0	Inherent	UW-16.1(i)	N/A	Shell
Pressure Gauge	1	1"	Pipe	SA-106 C	N/A	0.250"	0	Inherent	UW-16.1(a)	N/A	Shell

11. Supports: Skirt **No** Lugs **2** Legs **0** Other **4 Pads** Attached **Welded to Shell**
(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:
N/A
(Name of part, item number, Manufacturer's name and identifying stamp)

***Relief per UG-150; **Production Impact Testing Required YES per UG-84(1)(a) & UCS-67(a)(1);**
*****X-ray RT-1 per UW-11(a); Hydro test in the horizontal position; Extra consideration per U-1(d); Reviewed by P.E. & B.V. Houston Office.**

FORM U-1A

Page 2 of 2

Manufactured by **River Bend Industries, LLC, 1700 Crystal Lake Drive, Blanchard, Oklahoma, 73010, USA**Manufacturer's Serial No. **6399**CRN **N/A**National Board No. **6399****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 **49367**

expires **February 22, 2027**Date **07/31/2025**

Co. name

River Bend Industries, LLC
(Manufacturer)

Signed


(Representative)**CERTIFICATE OF SHOP/FIELD INSPECTION**Vessel constructed by **River Bend Industries, LLC** at **1700 Crystal Lake Drive, Blanchard, Oklahoma, 73010, USA**

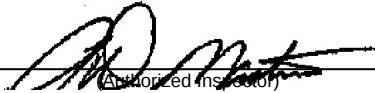
I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by

Bureau Veritas Inspection and Insurance Company, of Lynn, MAhave inspected the component described in this Manufacturer's Data Report on **July 31, 2025**,

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 the Inspector's employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor the Inspector's 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 **07/31/2025**

Signed


(Authorized Inspector)

Commissions

7936, OK263

(National Board Authorized Inspector Commission number)



River Bend Industries, LLC

ASME INSPECTION REPORT

REPEAT JOB START

U VESSEL

N.D.E. REQ: RT-1 SERIAL NUMBER: 6399 M.A.W.P.: 5000 PSI
N.C.R. NO#: _____ NAT'L BD NO: 6399 AT: 200 DEG F
HEAT TREAT TIME: _____ WO NUMBER: 1024-2 M.D.M.T.: -20 DEG F
HEAT TREAT TEMP: _____ CUSTOMER: TRILOGIC TEST: 6500 PSI
DWG NUMBER: 60250300 REV0 DESC: SDT-24965000

PREFABRICATION CHECK LIST

FAB DWG :	Q.C.	DATE	A.I.	DATE
CALCULATIONS:	JR	4/4/2025	* ADM	4/4/2025
WELDER QUAL:	JR	4/4/2025		
WELD PROC:	JR	4/4/2025		
MAT'L REC'D & I.D.:	SEE RECEIVING REPORT			
M.T.R. VERIFIED:	SEE RECEIVING REPORT			

(* HOLD POINT)

FABRICATION CHECK LIST

LAYOUT CHECK:	Q.C.	DATE	PARTIAL INTERNALS
LAYOUT HEAD: <u>mc</u>	<u>Ⓟ</u>	<u>6-25-25</u>	
LAYOUT HEAD: <u>mc</u>	<u>Ⓟ</u>	<u>6-26-25</u>	
LAYOUT SHELL: <u>MR</u>	<u>Ⓟ</u>	<u>7/22/25</u>	
LAYOUT INTERNAL: <u>MR</u>	<u>Ⓟ</u>	<u>7/23/25</u>	
FITUP CHECK:	Q.C.	DATE	SECOND STAGE INSPECTION:
NOZZLES PREP: <u>MU</u>	<u>Ⓟ</u>	<u>7-25-25</u>	
NOZZLES HEAD: <u>mc</u>	<u>Ⓟ</u>	<u>6-26-25</u>	Q.C. DATE
NOZZLES HEAD: <u>mc</u>	<u>Ⓟ</u>	<u>6-27-25</u>	NOZZLE FITUP:
NOZZLES SHELL: <u>MR</u>	<u>Ⓟ</u>	<u>7/23/25</u>	LEGS/SKIRT:
WELDNECK QUALITY: _____		(MP03)	ATTACHMENTS:

FIT UP R.S. & L.S.:	Q.C.	DATE	HEAT NO:
FIT UP HEAD & SHELL: <u>MC</u>	<u>Ⓟ</u>	<u>7-24-25</u>	HEAD: <u>B3A1-2</u> ✓ Tmin: <u>1.355</u>
FIT UP HEAD & SHELL: <u>MC</u>	<u>Ⓟ</u>	<u>7-24-25</u>	HEAD: <u>B3A1-2</u> ✓ Tmin: <u>1.374</u>
FIT UP SHELL & SHELL: _____			SHELL: <u>B3A5-8</u> ✓ THK: <u>3.519</u>
FIT UP SHELL L.S.: _____			NOZZLES: _____

POST FABRICATION CHECK LIST

WELD SIZE & APPEARANCE:	Q.C.	DATE	INTERNAL INSP: A.I.
WELDER STAMPS: <u>R, SS, G</u>			
ADDITIONAL N.D.E.: _____			
PARTIAL DATA REPORT: _____			
S.N. Stamped in shell: <u>MU</u>	<u>Ⓟ</u>	<u>7-25-25</u>	Q.C. <u>Ⓟ</u> <u>7-23-25</u>
FINAL INSPECTION: <u>MU</u>	<u>Ⓟ</u>	<u>7-25-25</u>	N.P. STAMP: A.I. <u>Ⓟ</u> <u>7-31-25</u>
R.T. REPORTS: <u>JR</u>		<u>7-31-25</u>	Q.C. <u>Ⓟ</u> <u>7-25-25</u>
			HYDRO TEST: A.I. <u>Ⓟ</u> <u>7-31-25</u>
			Q.C. <u>Ⓟ</u> <u>7-31-25</u>
			SIGN DATA: A.I. <u>Ⓟ</u> <u>7-31-2025</u>
			Q.C. <u>Ⓟ</u> <u>7-31-25</u>

(* HOLD POINT)



This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



NON-DESTRUCTIVE TESTING AND INSPECTION

17110 East Pine St, Tulsa, OK 74116

Tele: (918) 234-6300 Fax: (918) 234-6301

CUSTOMER DATA

NAME RBI
ADDRESS _____
PURCHASE ORDER _____
ATTENTION 24" 100% BOTTLE
DAY THURSDAY DATE 7/31/2025
Project # _____ Report # _____

RADIOGRAPHIC INSPECTION REPORT

JOB NUMBER 1024-2 SO# SN-6399 PAGE 1 OF 1APPLICABLE CODE ASME ACCEPTANCE CRITERIA SEC. 8 UW51PROCEDURE # API-RT-002-ASME REVISION # 18 REV. DATE: 1/1/2024 Per Diem _____TRUCK# T-417 TRAVEL MILES _____ TRAVEL HRS. _____ WORK HRS. _____ STANDBY HRS. _____ TOTAL HRS. _____RADIOGRAPHER SETH SKINNER LEVEL II ASSISTANT ADAM STIDHAM LEVEL I

TESTING VARIABLES

IR 192 ☒ CO ⁶⁰ ☐ X-RAY ☐ PROCESSING: AUTOMATIC ☐ MANUAL ☒ DEV. TIME 5 MIN. TEMP. 68

CURIES 55.87 Kv. _____
FOCAL SPOT 0.164 Ma. _____
MATERIAL TYPE _____ CS

RT TECHNIQUE						
Technique - A	Technique - B	Technique - C	Technique - D	Technique - E	Technique - F	Technique - G
						
SWE/SWV	SWE/SWV	SWE/SWV	DWE/SWV	DWE/SWV	DWE/DWV	DWE/DWV

FILM: _____ FILM USAGE: 3 1/2" X 8 1/2" 3 1/2" X 10" 3 1/2" X 17" 70 mm X 12"
MFG. FUJI 4 1/2" X 8 1/2" 4 1/2" X 10" 4 1/2" X 17" 12 70 mm X 17"
TYPE 100 70mm X 8 1/2" 8" X 10" 7" X 17" OTHER _____
CLASS II 70 mm X 6" 5" X 7" 14" X 17" OTHER _____

SENSITIVITY 2-2T ORIGINAL FILM 12 REPAIR FILM _____
FILM/CASSETTE 1 TOTAL # EXPOSURES 2
Pb. Screen Thk. Front 0.005 Back 0.005

	FILM I.D.	INTERVAL	IQI	RT TECH	SHIELD	M	W	TO	SOD	OFD	DIA.	UG	DENSITY	DISCONTINUITY	AC	RE	WEL
1	RS-1	(1-2)	B	A		1.5"	0.125	1.625"	9.5"	1.625"	24"	<.20	2.0-4.0		X		
2	R/G	(2-3)	"			"	"	"	"	"	"	"	"		X		
3		(3-4)	B			"	"	"	"	"	"	"	"		X		
4		(4-5)	"			"	"	"	"	"	"	"	"		X		
5		(5-6)	B			"	"	"	"	"	"	"	"		X		
6		(6-1)	"			"	"	"	"	"	"	"	"		X		
7	RS-2	(1-2)	B	A		"	"	"	"	"	"	"	"		X		
8	R/G	(2-3)	"			"	"	"	"	"	"	"	"		X		
9		(3-4)	B			"	"	"	"	"	"	"	"		X		
10		(4-5)	"			"	"	"	"	"	"	"	"		X		
11		(5-6)	B			"	"	"	"	"	"	"	"		X		
12		(6-1)	"			"	"	"	"	"	"	"	"		X		
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DEFECT CODE

AB - ARC BURN	HB - HOLLOW BEAD	SLI - SLAG INCLUSION	SOD = SOURCE TO OBJECT DISTANCE
AI - ALIGNED INDICATION	IF - INADEQUATE FUSION	SLL - SLAG LINE	OFD = SOURCE SIDE OF OBJECT TO FILM DISTANCE
BT - BURN THROUGH	IP - INCOMPLETE PENETRATION	SURF - SURFACE INDICATION	OD = OUTER DIAMETER
CON - CONCAVITY	MA - MISALIGNMENT	UCE - UNDERCUT EXTERNAL	REP = REPAIR
CRACK - CRACK	POR - POROSITY	UCI - UNDERCUT INTERNAL	RES = RESHOOT
			RET = RETAKE
			Acc = Accumulation
			BM = BASE MATERIAL

ABBREVIATED TERMS

RADIOGRAPHERS SIGNATURE: SETH SKINNER DATE: 7/31/2025Print: SETH SKINNERFILM INTERPRETOR SIGNATURE: SETH SKINNER DATE: 7/31/2025

CLIENT REPRESENTATIVE:

Print:

Sign: Quimer

Form# RT-F-001 Rev. 0

AMERICAN PIPING INSPECTION, INC. ASSUMES NO RESPONSIBILITY FOR LOSSES OF ANY KIND DUE TO INTERPRETATION



NON-DESTRUCTIVE TESTING AND INSPECTION

17110 East Pine St, Tulsa, OK 74116

Tele: (918) 234-6300 Fax: (918) 234-6301

RADIOGRAPHIC INSPECTION REPORT

CUSTOMER DATA

NAME RBI
ADDRESS _____
PURCHASE ORDER _____
ATTENTION NOZZELS
DAY THURSDAY DATE 7/31/2025
Project # _____ Report # _____

JOB NUMBER 1024-2 SO# SN-6399 PAGE 1 OF 1
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PROCEDURE # API-RT-002-ASME REVISION # 18 REV. DATE: 1/1/2024 Per Diem _____
TRUCK# T-417 TRAVEL MILES _____ TRAVEL HRS. _____ WORK HRS. _____ STANDBY HRS. _____ TOTAL HRS. _____
RADIOGRAPHER SETH SKINNER LEVEL II ASSISTANT ADAM STIDHAM LEVEL I

TESTING VARIABLES

IR 192 ☒ CO ⁶⁰ ☐ X-RAY ☐ PROCESSING: AUTOMATIC ☐ MANUAL ☒ DEV. TIME 5 MIN. TEMP. 68

CURIES 55.87 Kv. _____
FOCAL SPOT 0.164 Ma. _____
MATERIAL TYPE _____ CS _____

RT TECHNIQUE						
Technique - A	Technique - B	Technique - C	Technique - D	Technique - E	Technique - F	Technique - G
						
SWE/SWV	SWE/SWV	SWE/SWV	DWE/SWV	DWE/SWV	DWE/DWV	DWE/DWV

FILM: _____ FILM USAGE: 3 1/2" X 8 1/2" 12 3 1/2" X 10" 3 1/2" X 17" 70 mm X 12"
MFG. FUJI 4 1/2" X 8 1/2" 4 1/2" X 10" 4 1/2" X 17" 70 mm X 17"
TYPE 50 70mm X 8 1/2" 8" X 10" 7" X 17" OTHER _____
CLASS I 70 mm X 6" 5" X 7" 14" X 17" OTHER _____

SENSITIVITY 2-2T
FILM/CASSETTE 1
Pb. Screen Thk. Front 0.005 Back 0.005

ORIGINAL FILM 12 REPAIR FILM 1
TOTAL # EXPOSURES 12

	FILM I.D.	INTERVAL	IQI	RT TECHNIQUE	SHM / BLOCK	MAT'L THK	WELD REIN.	TOTAL MAT. THK.	SOD	OFD	DIA.	UG	DENSITY	DISCONTINUITY	ACCEPT	REJECT	WELDER I.D.
1	N1	1-2-3-4-1	B	D		0.436	0.125	0.561	1.814"	0.561	2.375"	<.20	2.0-4.0	1-2 IF		X	SS
2	N2	1-2-3-4-1	B	D		"	"	"	"	"	"	"	"		X	SS	
3	N3	1-2-3-4-1	B	D		"	"	"	"	"	"	"	"		X	SS	
4	N1R	(1-2)	B	D		"	"	"	"	"	"	"	"		X	SS	
5																	
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DEFECT CODE

ABBREVIATED TERMS

AB - ARC BURN	HB - HOLLOW BEAD	SLI - SLAG INCLUSION	SOD = SOURCE TO OBJECT DISTANCE
AI - ALIGNED INDICATION	IF - INADEQUATE FUSION	SLL - SLAG LINE	OFD = SOURCE SIDE OF OBJECT TO FILM DISTANCE
BT - BURN THROUGH	IP - INCOMPLETE PENETRATION	SURF - SURFACE INDICATION	OD = OUTER DIAMETER
CON - CONCAVITY	MA - MISALIGNMENT	UCE - UNDERCUT EXTERNAL	WT = WELD THICKNESS
CRACK - CRACK	POR - POROSITY	UCI - UNDERCUT INTERNAL	WR = WELD REINFORCEMENT
			REP = REPAIR
			RES = RESHOOT
			RET = RETAKE
			Acc = Accumulation
			BM = BASE MATERIAL

RADIOGRAPHERS SIGNATURE: SETH SKINNER DATE: 7/31/2025Print: SETH SKINNER

FILM INTERPRETOR

Sign: SETH SKINNERDATE: 7/31/2025

CLIENT REPRESENTATIVE:

Print:

Sign: Quimer

Form# RT-F-001 Rev. 0

AMERICAN PIPING INSPECTION, INC. ASSUMES NO RESPONSIBILITY FOR LOSSES OF ANY KIND DUE TO INTERPRETATION



Test Report

Attn: Jenny Reimer
River Bend Industries
1700 Crystal Lake Drive
Blanchard, OK 73010

Lab Number: 25070291
Date Received: 07/22/2025
Date Reported: 07/24/2025
PO Number: 40854

Coupon Description: 1.5" Thick to 3.5" Thick Weld Plate
Welder Name: Efran Lopez
Base Material 1: SA-516, Grade 70N (1.5")
Welder ID: E
Base Material 2: SA-516, Grade 70N (3.5")
WPS: RBI-5
Process: SAW
Position: 1G

Charpy V-Notch Impact Test per ASTM A370-24a / ASTM E23-23a

Condition: As Received
Notch Type: V-Notch
Orientation: Perpendicular to the Weld
Notch Location: Base Metal (Side 1)
Charpy Specimen Size: 10mm x 10mm
Temperature, °F: -20
Weld Code: ASME Sec. VIII (2023), Div. 1, UG-84

	Impact Value 1 (ft-lbf)				Lateral Expansion 1 (mils)				Shear 1 (%)			
	1	2	3	Avg	1	2	3	Avg	1	2	3	Avg
Results	65	63	65	64	47	46	47	47	55	55	55	55

Test Comments: Specified test requirements modified according to ASTM A370-24a, Table 10 when subsize specimens are permitted or necessary, or both.

Absorbed energy values above 80% of the 240 ft-lbf capacity of the impact tester are approximate. If the absorbed energy value(s) exceed(s) 192 ft-lbf, the average was not calculated per the requirements of ASTM E23-23a, Section 9.3.3.1.

Striker Radius: 8mm

These results MEET the requirements of ASME Sec.VIII (2023), Div.1, Figure UG-84.1



Test Report

Charpy V-Notch Impact Test per ASTM A370-24a / ASTM E23-23a

Condition: As Received

Notch Type: V-Notch

Orientation: Transverse Across the Weld

Notch Location: HAZ at 1/4t to 1/2t from Cap Surface (Base Side 1)

Charpy Specimen Size: 10mm x 10mm

Temperature, °F: -20

Weld Code: ASME Sec. VIII (2023), Div. 1, UG-84

	Impact Value 1 (ft-lbf)				Lateral Expansion 1 (mils)				Shear 1 (%)			
	1	2	3	Avg	1	2	3	Avg	1	2	3	Avg
Results	57	49	54	53	42	38	41	40	50	50	50	50

Test Comments: Specified test requirements modified according to ASTM A370-24a, Table 10 when subsize specimens are permitted or necessary, or both.

Absorbed energy values above 80% of the 240 ft-lbf capacity of the impact tester are approximate. If the absorbed energy value(s) exceed(s) 192 ft-lbf, the average was not calculated per the requirements of ASTM E23-23a, Section 9.3.3.1.

Striker Radius: 8mm

These results MEET the requirements of ASME Sec.VIII (2023), Div.1, Figure UG-84.1

Charpy V-Notch Impact Test per ASTM A370-24a / ASTM E23-23a

Condition: As Received

Notch Type: V-Notch

Orientation: Transverse Across the Weld

Notch Location: Weld Metal at 1/16" from Cap Surface

Charpy Specimen Size: 10mm x 10mm

Temperature, °F: -20

Weld Code: ASME Sec. VIII (2023), Div. 1, UG-84

	Impact Value 1 (ft-lbf)				Lateral Expansion 1 (mils)				Shear 1 (%)			
	1	2	3	Avg	1	2	3	Avg	1	2	3	Avg
Results	13	40	31	28	9	31	26	22	30	55	35	40

Test Comments: Specified test requirements modified according to ASTM A370-24a, Table 10 when subsize specimens are permitted or necessary, or both.

Absorbed energy values above 80% of the 240 ft-lbf capacity of the impact tester are approximate. If the absorbed energy value(s) exceed(s) 192 ft-lbf, the average was not calculated per the requirements of ASTM E23-23a, Section 9.3.3.1.

Striker Radius: 8mm

These results MEET the requirements of ASME Sec.VIII (2023), Div.1, Figure UG-84.1



Test Report

Charpy V-Notch Impact Test per ASTM A370-24a / ASTM E23-23a

Condition: As Received

Notch Type: V-Notch

Orientation: Transverse Across the Weld

Notch Location: HAZ at 1/4t to 1/2t from Cap Surface (Base Side 2)

Charpy Specimen Size: 10mm x 10mm

Temperature, °F: -20

Weld Code: ASME Sec. VIII (2023), Div. 1, UG-84

	Impact Value 1 (ft-lbf)				Lateral Expansion 1 (mils)				Shear 1 (%)			
	1	2	3	Avg	1	2	3	Avg	1	2	3	Avg
Results	111	107	123	114	73	64	70	69	60	60	65	62

Test Comments: Specified test requirements modified according to ASTM A370-24a, Table 10 when subsize specimens are permitted or necessary, or both.

Absorbed energy values above 80% of the 240 ft-lbf capacity of the impact tester are approximate. If the absorbed energy value(s) exceed(s) 192 ft-lbf, the average was not calculated per the requirements of ASTM E23-23a, Section 9.3.3.1.

Striker Radius: 8mm

These results MEET the requirements of ASME Sec.VIII (2023), Div.1, Figure UG-84.1

Charpy V-Notch Impact Test per ASTM A370-24a / ASTM E23-23a

Condition: As Received

Notch Type: V-Notch

Orientation: Perpendicular to the Weld

Notch Location: Base Metal (Side 2)

Charpy Specimen Size: 10mm x 10mm

Temperature, °F: -20

Weld Code: ASME Sec. VIII (2023), Div. 1, UG-84

	Impact Value 1 (ft-lbf)				Lateral Expansion 1 (mils)				Shear 1 (%)			
	1	2	3	Avg	1	2	3	Avg	1	2	3	Avg
Results	87	99	68	85	61	65	49	58	50	60	40	50

Test Comments: Specified test requirements modified according to ASTM A370-24a, Table 10 when subsize specimens are permitted or necessary, or both.

Absorbed energy values above 80% of the 240 ft-lbf capacity of the impact tester are approximate. If the absorbed energy value(s) exceed(s) 192 ft-lbf, the average was not calculated per the requirements of ASTM E23-23a, Section 9.3.3.1.

Striker Radius: 8mm

These results MEET the requirements of ASME Sec.VIII (2023), Div.1, Figure UG-84.1



Test Report

Approved By: Brent Fowler Title: Technical Director

Signature: BT Fu

*Test results relate only to the items tested. This document shall not be reproduced, except in full, without the written approval of American Piping Inspection, Inc. Metallurgical Laboratory.
Conformance statements are based on the Simple Acceptance Rule for measurement of uncertainty.

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CERTIFIED BY
River Bend Industries, LLC
BLANCHARD, OK



5000PSI AT 200°F
MAWP

-20 °F AT 5000PSI
MDMT

63

MFG, S/N

20

YEAR BUILT

1014-2