WESTERN WELDING ACADEMY
GILLETTE, WYOMING

Welders Name Gray Lorusso Last Four of SS# XXX-XX-7951

SMAW 6" PLATE 3/8 NO BACKING

Identification of WPS followed AWS SWPS B2.1-1-205-96 (R2007) Test Coupon ☐ Production weld

Specification and type/grade or UNS number of base metal(s) A36 Thickness: .375"

Testing Conditions and Qualification Limits

Welding Variables			Actual values		Range qualified	
Welding process(es)			SMAW	SMAW	SMAW	SMAW
Type (i.e., manual, semi-automatic) used			MANUAL	MANUAL	MANUAL	MANUAL
Backing (with/without, metal, weld metal, double-welded)			WITHOUT	WITH / WELD METAL	WITH/WITHOUT	WITH
Plate or Pipe (enter diameter if pipe or tube)			PLATE	PLATE	PLATE	PLATE
Base metal P- or S-Number to P-or S-Number			ALL LISTED ON WPS	ALL LISTED ON WPS	ALL LISTED ON WPS	ALL LISTED ON WPS
Filler metal or electrode specification(s) (SFA) (info only)			5.1	5.5	--	--
Filler metal or electrode classification(s) (info only)			E6010	E7018**H4R**	--	--
Filler metal F-Number(s)			F3	F4	F3	F4 & BELOW
Consumable insert (GTAW or PAW)			--	--	--	--
Filler type (solid/metal or flux cored/powder (GTAW or PAW)			--	--	--	--
Base Metal Thickness Range						
Process 1:	SMAW	3 layers minimum Yes (No)	.125"	.250"	.75"	.75"
Process 2:	NA	3 layers minimum Yes No	--	--	--	--
Position qualified (2G, 6G, 3F, etc.)			3G, 4G	3G, 4G	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS
Vertical progression (uphill or downhill)			UPHILL	UPHILL	UPHILL	UPHILL
Type of fuel gas (OFW)			--	--	--	--
Inert gas backing (GTAW, PAW, GMAW)			--	--	--	--
Transfer mode (spray/globular or pulse to short circuit – GMAW)			--	--	--	--
GTAW current type/polarity (AC, DC STR., DC REV.)			--	--	--	--

TESTS PER AWS D1.1
Visual Examination of Completed Weld

Transverse face and root bends Side bends

Type	Result	Type	Result	Type	Result
VT	ACCEPTABLE	FB	ACCEPTABLE	RB	ACCEPTABLE
		FB	ACCEPTABLE	RB	ACCEPTABLE

Tests conducted by: First: Matthew Last: Hahn

We certify that the statements in this record are correct and that the test coupons were prepared welded and tested in accordance with the requirements of AWS D1.1 Code.

Date: 02/12/2026

Certified by: Nathaniel V. Farnsworth
CWI # CWI 25107011
QC1 EXP. 10/1/2028

WESTERN WELDING ACADEMY
GILLETTE, WYOMING

Welders Name Gray Lorusso Last Four of SS# XXX-XX- 7951

STICK PIPE

Identification of WPS followed AWS SWPS B2.1-1-201-96 (R07) ☒ Test Coupon ☐ Production weld

Specification and type/grade or UNS number of base metal(s) A106 GRADE B Thickness: 2" XXH 0.436" WALL

Testing Conditions and Qualification Limits

Welding Variables (QW-350)			Actual values		Range qualified	
Welding process(es)			SMAW	SMAW	SMAW	SMAW
Type (i.e., manual, semi-automatic) used			MANUAL	MANUAL	MANUAL	MANUAL
Backing (with/without, metal, weld metal, double-welded)			WITHOUT	WITH / WELD METAL	WITH/WITHOUT	WITH
Plate or Pipe (enter diameter if pipe or tube)			PIPE 2.375	PIPE 2.375"	1"-UNLIMITED	1"-UNLIMITED
Base metal P- or S-Number to P-or S-Number			P1 to P1	P1 to P1	P1-15F, P34, P41-49	P1-15F, P34, P41-49
Filler metal or electrode specification(s) (SFA) (info only)			5.1	5 5	--	--
Filler metal or electrode classification(s) (info only)			E6010	E7018H4R	--	--
Filler metal F-Number(s)			F3	F4	F3	F4 & BELOW
Consumable insert (GTAW or PAW)			--	--	--	--
Filler type (solid/metal or flux cored/powder (GTAW or PAW)			--	--	--	--
Deposit thickness. None greater than 1/2"						
Process 1:	SMAW	3 layers minimum Yes (No)	.061"	.375"	.122"	.75"
Process 2:	NA	3 layers minimum Yes No	--	--	--	--
Position qualified (2G, 6G, 3F, etc.)			6G	6G	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS
Vertical progression (uphill or downhill)			UPHILL	UPHILL	UPHILL	UPHILL
Type of fuel gas (OFW)			--	--	--	--
Inert gas backing (GTAW, PAW, GMAW)			--	--	--	--
Transfer mode (spray/globular or pulse to short circuit – GMAW)			--	--	--	--
GTAW current type/polarity (AC, DC STR., DC REV.)			--	--	--	--

TESTS

Visual Examination of Completed Weld (QW-302.4)

Transverse face and root bends [QW-462.3 (a)] Side bends (QW-462.2)

Type	Result	Type	Result	Type	Result
VT	ACCEPTABLE	FB	ACCEPTABLE	RB	ACCEPTABLE
		FB	ACCEPTABLE	RB	ACCEPTABLE

Tests conducted by: First: Matthew Last: Hahn

We certify that the statements in this record are correct and that the test coupons were prepared welded and tested in accordance with the requirements of Section IX of the ASME Code.

Date: 02/12/2026 Certified by:

CWI # Nathaniel V. Farnsworth
CWI 25107011
QC1, EXP 10/1/2028

WESTERN WELDING ACADEMY
GILLETTE, WYOMING

Welders Name Gray Lorusso Last Four of SS# XXX-XX- 7951

CARBON COMBO

Identification of WPS followed AWS SWPS B2.1-1-209-96 (R07) ☒ Test Coupon ☐ Production weld

Specification and type/grade or UNS number of base metal(s) A106 GRADE B Thickness: 2" XXH 0.436" WALL

Testing Conditions and Qualification Limits

Welding Variables (QW-350)			Actual values		Range qualified	
Welding process(es)			GTAW	SMAW	GTAW	SMAW
Type (i.e., manual, semi-automatic) used			MANUAL	MANUAL	MANUAL	MANUAL
Backing (with/without, metal, weld metal, double-welded)			WITHOUT	WITH / WELD METAL	WITH/WITHOUT	WITH
Plate or Pipe (enter diameter if pipe or tube)			PIPE/ 2.375"	PIPE/ 2.375"	1"-UNLIMITED	1"-UNLIMITED
Base metal P- or S-Number to P-or S-Number			P1 to P1	P1 to P1	P1-15F, P34, P41-49	P1-15F, P34, P41-49
Filler metal or electrode specification(s) (SFA) (info only)			5.18	5.5	--	--
Filler metal or electrode classification(s) (info only)			ER70S-6	E7018H4R	--	--
Filler metal F-Number(s)			F6	F4	F6	F4 & BELOW
Consumable insert (GTAW or PAW)			NONE	--	NONE	--
Filler type (solid/metal or flux cored/powder (GTAW or PAW)			--	--	--	--
Deposit thickness. None greater than .5"						
Process 1:	GTAW	3 layers minimum Yes (No)	.125"	--	.25"	--
Process 2:	SMAW	3 layers minimum Yes (No)	--	.311"	--	.622"
Position qualified (2G, 6G, 3F, etc.)			6G	6G	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS
Vertical progression (uphill or downhill)			UPHILL	UPHILL	UPHILL	UPHILL
Type of fuel gas (OFW)			--	--	--	--
Inert gas backing (GTAW, PAW, GMAW)			--	--	--	--
Transfer mode (spray/globular or pulse to short circuit – GMAW)			--	--	--	--
GTAW current type/polarity (AC, DC STR., DC REV.)			DC- / STRAIGHT	DC+ / REVERSE	DC- / STRAIGHT	DC+ / REVERSE

TESTS

Visual Examination of Completed Weld (QW-302.4)

Transverse face and root bends [QW-462.3 (a)] Side bends (QW-462.2)

Type	Result	Type	Result	Type	Result
VT	ACCEPTABLE	RB	ACCEPTABLE	FB	ACCEPTABLE
		RB	ACCEPTABLE	FB	ACCEPTABLE

Tests conducted by: First: Matthew Last: Hahn

We certify that the statements in this record are correct and that the test coupons were prepared welded and tested in accordance with the requirements of Section IX of the ASME Code.

Date: 02/12/2026 Certified by: Nathaniel V. Farnsworth

CWI # CWI 25107011

QC1 EXP 10/1/2028

WESTERN WELDING ACADEMY
GILLETTE, WYOMING

Welders Name Gray Lorusso Last Four of SS# XXX-XX- 7951

CARBON TIG OUT

Identification of WPS followed AWS SWPS B2.1-1-207-96 (R07) ☒ Test Coupon ☐ Production weld

Specification and type/grade or UNS number of base metal(s) A106 GRADE B Thickness: 2" XH 0.218" WALL

Testing Conditions and Qualification Limits

Welding Variables (QW-350)			Actual values		Range qualified	
Welding process(es)			GTAW	--	GTAW	--
Type (i.e., manual, semi-automatic) used			MANUAL	--	MANUAL	--
Backing (with/without, metal, weld metal, double-welded)			WITHOUT	--	WITH/WITHOUT	--
Plate or Pipe (enter diameter if pipe or tube)			PIPE/ 2.375"	--	1"-UNLIMITED	--
Base metal P- or S-Number to P-or S-Number			P1 to P1	--	P1-15F, P34, P41-49	--
Filler metal or electrode specification(s) (SFA) (info only)			5.18	--	--	--
Filler metal or electrode classification(s) (info only)			ER70S-6	--	--	--
Filler metal F-Number(s)			F6	--	F6	--
Consumable insert (GTAW or PAW)			NONE	--	NONE	--
Filler type (solid/metal or flux cored/powder (GTAW or PAW)			--	--	--	--
Deposit thickness. None greater than .5"						
Process 1:	GTAW	3 layers minimum Yes (No)	.218"	--	.436"	--
Process 2:	--	3 layers minimum Yes No	--	--	--	--
Position qualified (2G, 6G, 3F, etc.)			6G	--	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS	--
Vertical progression (uphill or downhill)			UPHILL	--	UPHILL	--
Type of fuel gas (OFW)			--	--	--	--
Inert gas backing (GTAW, PAW, GMAW)			--	--	--	--
Transfer mode (spray/globular or pulse to short circuit – GMAW)			--	--	--	--
GTAW current type/polarity (AC, DC STR., DC REV.)			DC- / STRAIGHT	--	DC- / STRAIGHT	--

TESTS

Visual Examination of Completed Weld (QW-302.4)

Transverse face and root bends [QW-462.3 (a)] Side bends (QW-462.2)

Type	Result	Type	Result	Type	Result
VT	ACCEPTABLE	RB	ACCEPTABLE	FB	ACCEPTABLE
		RB	ACCEPTABLE	FB	ACCEPTABLE

Tests conducted by: First: Matthew Last: Hahn

We certify that the statements in this record are correct and that the test coupons were prepared welded and tested in accordance with the requirements of Section IX of the ASME Code.

Date: 02/12/2026

Certified by: Nathaniel V. Farnsworth

CWI # CWI 25107011

QC1 EXP. 10/1/2028

WESTERN WELDING ACADEMY
GILLETTE, WYOMING

Welders Name Gray Lorusso Last Four of SS# XXX-XX-7951

STAINLESS TIG OUT

Identification of WPS followed AWS SWPS B2.1-8-212-2001 (R11) ☒ Test Coupon ☐ Production weld

Specification and type/grade or UNS number of base metal(s) A106 GRADE B Thickness: 2" XH 0.218" WALL

Testing Conditions and Qualification Limits

Welding Variables (QW-350)			Actual values		Range qualified	
Welding process(es)			GTAW	–	GTAW	–
Type (i.e., manual, semi-automatic) used			MANUAL	–	MANUAL	–
Backing (with/without, metal, weld metal, double-welded)			WITHOUT	–	WITH/WITHOUT	–
Plate or Pipe (enter diameter if pipe or tube)			PIPE/ 2.375"	–	1"-UNLIMITED	–
Base metal P- or S-Number to P-or S-Number			P1 to P1	–	P1-15F, P34, P41-49	–
Filler metal or electrode specification(s) (SFA) (info only)			5.9	–	–	–
Filler metal or electrode classification(s) (info only)			ER308L	–	–	–
Filler metal F-Number(s)			F6	–	F6	–
Consumable insert (GTAW or PAW)			NONE	–	NONE	–
Filler type (solid/metal or flux cored/powder (GTAW or PAW)			SOLID BARE	–	SOLID BARE	–
Deposit thickness. None greater than .5"						
Process 1:	GTAW	3 layers minimum Yes (No)	.218"	–	.436"	–
Process 2:	NA	3 layers minimum Yes No	–	–	–	–
Position qualified (2G, 6G, 3F, etc.)			6G	–	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS	–
Vertical progression (uphill or downhill)			UPHILL	–	UPHILL	–
Type of fuel gas (OFW)			–	–	–	–
Inert gas backing (GTAW, PAW, GMAW)			WITH / ARGON	–	WITH, WITHOUT ON FILLETS AND BACKING METAL	–
Transfer mode (spray/globular or pulse to short circuit – GMAW)			–	–	–	–
GTAW current type/polarity (AC, DC STR., DC REV.)			DC- / STRAIGHT	–	DC- / STRAIGHT	–

TESTS

Visual Examination of Completed Weld (QW-302.4)

Transverse face and root bends [QW-462.3 (a)] Side bends (QW-462.2)

Type	Result	Type	Result	Type	Result
VT	ACCEPTABLE	RB	ACCEPTABLE	FB	ACCEPTABLE
		RB	ACCEPTABLE	FB	ACCEPTABLE

Tests conducted by: First: Matthew Last: Hahn

We certify that the statements in this record are correct and that the test coupons were prepared welded and tested in accordance with the requirements of Section IX of the ASME Code.

Date: 4/10/26

Certified by: Nathaniel V. Farnsworth
CWI # CWI 25107011
QCI EXP. 10/1/2028

SUBMIT

WESTERN WELDING ACADEMY
GILLETTE, WYOMING

Welders Name Gray Lorusso Last Four of SS# XXX-XX-7951

DOWNHILL

Identification of WPS followed WWA API 1104 20TH ☒ Test Coupon ☐ Production weld

Specification and type/grade or UNS number of base metal(s) A106 GRADE B Thickness: 6" .280" WALL THICKNESS

Testing Conditions and Qualification Limits

Welding Variables			Actual values		Range qualified	
Welding process(es)			SMAW	SMAW	SMAW	SMAW
Type (i.e., manual, semi-automatic) used			MANUAL	MANUAL	MANUAL	MANUAL
Backing (with/without, metal, weld metal, double-welded)			WITHOUT	WITH / WELD METAL	WITH / WITHOUT	WITH / WITHOUT
Plate or Pipe (enter diameter if pipe or tube)			PIPE 6.625" OD	PIPE 6.625" OD	2.375" – 12.75"	2.375" – 12.75"
Joint design			DOUBLE BEVEL V	DOUBLE BEVEL V	DOUBLE BEVEL V	DOUBLE BEVEL V
Filler metal or electrode group number			GROUP 1	GROUP 1	GROUP 1 OR 2	GROUP 1 OR 2
Filler metal or electrode classification(s) (info only)			E6010	E7010	E6010	E7010
Filler metal F-Number(s)			–	–	–	–
Consumable insert (GTAW or PAW)			–	–	–	–
Filler type (solid/metal or flux cored/powder (GTAW or PAW)			–	–	–	–
Wall thickness group						
Process 1:	SMAW	3 layers minimum Yes (No)	.280"	.280"	.188"-.75"	.188"-.75"
Process 2:	NA	3 layers minimum Yes No	–	–	–	–
Position qualified (2G, 6G, 3F, etc.)			6G	6G	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS	ALL POSITIONS ON ALL GROOVES, FILLETS, & LAPS
Vertical progression (uphill or downhill)			DOWNHILL	DOWNHILL	DOWNHILL	DOWNHILL
Type of fuel gas (OFW)			–	–	–	–
Inert gas backing (GTAW, PAW, GMAW)			–	–	–	–
Transfer mode (spray/globular or pulse to short circuit – GMAW)			–	–	–	–
GTAW current type/polarity (AC, DC STR., DC REV.)			–	–	–	–

TESTS PER API 1104

Visual Examination of Completed Weld

Transverse face and root bends Side bends Nick Breaks

Type	Result	Type	Result	Type	Result
VT	ACCEPTABLE	NB	ACCEPTABLE	NB	ACCEPTABLE
FB	ACCEPTABLE	NB	ACCEPTABLE	RB	ACCEPTABLE
FB	ACCEPTABLE	NB	ACCEPTABLE	RB	ACCEPTABLE

Tests conducted by: First: Chris Last: Fink

We certify that the statements in this record are correct and that the test coupons were prepared welded and tested in accordance with the requirements of API 1104 Code.

Date: 4/22/26

Certified by: Nathaniel V. Farnsworth

CWI # CWI 25107011

QC1 EXP. 10/1/2028

WESTERN WELDING ACADEMY
GILLETTE, WYOMING

CERTIFICATE

of Completion

Proudly presented to:

Gray Lorusso - Expert Course

SEAL OF CERTIFICATION

WWA Administrator

April 24, 2026

Date