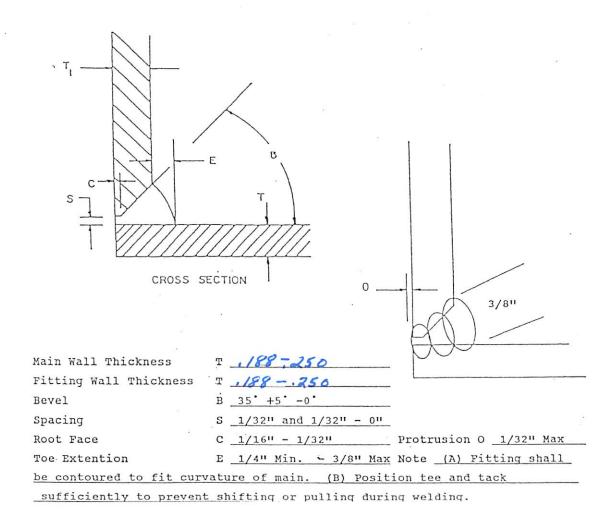
CONSTRUCTION: JOINING OF PIPES BY WELDING

CONSTRUCTION, JOHNING OF THE BOT WELDONG
Issued: Revised:11-16-10 Number:7B2F Page:
STANDARD WELDING PROCEDURE SPECIFICATION #7B2F
A. Process: Manual Electric ArcB. Material: 2 3/8 thru 12 in. header X 1 in. thru 4 in. branch
C. Diameter and Wall Thickness: .188 thru .250 WT
D. Joint Design: Vee Groove 35 degrees
E. Filler Metal and Number of Beads: Electrode Classification
Electrode E6010 and E8010 AWS Class A Minimum of 3 Passes
F. Electrical or Flame Characteristics: D.C. Reverse Polarity, Electrode Positive
G. Position: n/a
H. Direction of Welding: n\a
I. Number of Welders: 1
J. Time Lapse Between Passes: Maximum of 5 minutes between stringer and hot pass;
3 minutes maximum when temperature is below 35° F.
K. Type of Line-Up Clamp: none
L. Removal of Line-Up Clamp: n/a
M. Cleaning: Taper grind starts and craters and flatten crown by grinding stringer bead,
power buff all remaining passes.
N. Speed of Travel: String bead 10 inches per minute maximum.
O. *Preheat, Stress Relief: Maximum of 300°F. Minimum of 150°F. Preheating shall
be done with device or equipment which will heat entire circumference(s) in single
application 2" back from pipe ends.
P. Notes: Weld shall be completely protected from moisture until it has cooled to
ambient temperature. Weld zone shall be protected so that the wind velocity near it
does not exceed 8 miles per hour.
*V Beterd wine worst he atmosp valief if the garbon content avecade 220% or C L 1/4 Mp
*X-Rated pipe must be stress relief if the carbon content exceeds 32% or C+1/4 Mn
exceeds 65%. Heating of X-Rated pipe is limited to 600°F.
Number: Page:

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Bead No.	Electrode Diameter	Amperage Range	Voltage Range	Type Rod	Notes
1	1/8 5P+	90-120	25-33	E6010	
2	1/8 70+	94-120	26-34	E8010	
3	5/32 70+	110-145	22-30	E8010	
4	5/32 70+	95-120	22-30	E8010	
5	*				

Bead No.	Notes					
	Electrodes may be substituted within Rod group AWS A5.1—A5.5					
* 5	If another pass is needed same amps and volts as pass #4					

WEST TEXAS GAS, INC.

WEL	D TEST RE	PORT		(USE SEPAR	RATE FORM FOR E	EACH WELDING	PROCEDURE)					
DATE WELDER'S NAME			ME	, ,,			SOCIAL SECUR	RITY NUMBI	ER			
11-15-10 J:4141				1 Light			1323					
LOCATION NAME OF CONTRACTO				CTOR OR COMPANY RIGHT HANDED LEFT HANDED			REQUALIFYING TEST QUALIFYING TEST QUALIFYING TEST Q					
		OX-ACETYLEN			WEATHER	TEMPERATURE	1 00			REAK USED		
			PIPE MANUFAC	E MANUFACTURER			WALL THICKNESS		DIAMETER (OD) SE WEIGHT I			
MAKE OF WELDING MACHINE SIZE			1	MAKE OF OX-A	CETYLENE	WELDING NOZZLE SIZE		OX-ACETYLEN	E PRESSUF	RE FLOWING		
	<u>_in/</u>	<u> </u>	200	ACETYLENE RO	NAND SIZE	NIMBER OF	PASSES - OX-ACET	VI ENE WELD	JALIE	XING.T	ES	FFOF
	D OF ELECTROD	E	BRAND OF UX-	NA	D AND SIZE		V/A	TELNE WEED	1	2F-F	- /	,
Ť	CIM	ELECTRODE 1	TYPE AND SIZE	/4/-/	MACHINE	SETTINGS	AMPERAG	E RG.	OLTAGE R		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	
						FINE						
/ 🔠 │	STRINGER /	1/2 SP	+ 4	w.	120-190	60	90-1	20	7 <i>5-3</i> 5	7		
PIPE WELD	HOT PASS	1/8 70	+ 6	w	120-190	60	94-12	20 _	26-34			
3	FILLER (S)	5/32 70	+ L.	·N	120-190	75	110-14	5	22-30			
4	CAP PASS	5/32 70	st L.	W	120190	50	95-12	0 -	22-30			
	LOCATION	COUPON LENGTH	WIDTH	CROSS SEC. AREA SQ. IN.	LOAD	%ELONG.	COMPUTED TENSIL PSI		REMARKS	_	AC- CEPTED	RE- JECTED
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TEN	3					<u> </u>	<u> </u>					
	4											
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BEND TESTS	2											
END.	3											
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	COUPON LOCATION					REMARKS		112		. <u>-</u>	AC- CEPTED	RE- JECTED
ESTS	1700	Full Pen. clean Metal							_			
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NICK-BREAK TESTS	2/0/2h	16-16 Ell Port Plans Metal								-		
z	D. 1-1	Who Est Pen Closer Wester										/
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	DID WELD CONTAIN: PINHOLES COLDROLL UNDERC			DEPTH OF UN			DERCUT	LE	NGTH OF UND	ERCUT		
166	REMARKS ON TEE WELD											
PIPE	WELD	QUALIFIED NOT QUALIFIE			ECTRIC ARC		TEE WELD	QUALIFIED NOT QUALIFIE		ECTRIC ARC	0	
TEST	ED BY	SIGNATURE		1			TITLE	1 11				
		<u> </u>	parel	a se	an jar	<u> </u>						