



DAILY FIELD WELD SUMMARY REPORT

Date: 10/15/2013

TD-4160P-60-F01
06/01/2013 Rev. 2

Project : V-54 BRENTWOOD TERMINAL	Location: BRENTWOOD, CA.	<input type="checkbox"/> > 60 psig system (transmission)
Welding Organization: ARB INC.	NDT Contractor: W.I.X.	<input type="checkbox"/> ≤ 60 psig system (distribution)

Note-1: Weld Number Prefix Codes

W = Production Weld
TI = Tie-In Weld
TW = Temporary Weld

Note-2: Weld Pass Codes

R = root bead
H = hot pass
F = filler
C = cap
A = complete weld

Note-3: Inspection Remarks

A = Accept
R = Rejected
/ = Not Inspected
N/A = Not Applicable

Note-4: Visual Weld Inspection Codes

CR = crack UA = unacceptable appearance
AB = arc burr IP = inadequate penetration
WD = weld difference inadequate fusion
BT = burn thru undercut
PR = porosity

Visually inspect all welds per PG&E Standards
(See Note 3)

Joint Numbers (only) OR PO Number and Heat Number	Weld Number (See Note 1)	Pipe Diameter, Wall Thickness, & Grade	Welding Procedure Specification Number (WPS)	Welder ID (LAN ID or Stencil #)		Weld Pass (See Note 2)		Visually inspect all welds per PG&E Standards (See Note 3)														Remarks Record all weld defect codes with welder ID (See Note 4)		
								Pre-Assembly		In-Process				Final										
								Joint Cleaning	Bevel Cond. & Fit Up	Preheat Temperature	Electrode Type	Time between Passes	Electrical Characteristics DCEP/DCEN & DC/AC	Voltage & Amperage Range	Travel Speed & Direction	Visual Weld Inspection	Visual Defects Repaired	NDT Required (Y or N)	NDT Results	NDT Required (If Rejected)				
Existing Pipe	TI-1	24" .500	232SC/LH-G	B210	A832	A	A	A	A	A	A	A	A	A	A	A	NA	Y	A	NA				
JT-2D		24" .500 X60		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y	A	NA			
Multiple Repair Procedure Number (if used)								NA													NA			
Existing Pipe	TI-2	24" .500	232SC/LH-G	B483	A858	A	A	A	A	A	A	A	A	A	A	A	NA	Y	A	NA				
JT-2C		24" .500 X60		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y	A	NA			
Multiple Repair Procedure Number (if used)								NA														NA		
Multiple Repair Procedure Number (if used)								NA															NA	
Multiple Repair Procedure Number (if used)								NA															NA	
Multiple Repair Procedure Number (if used)								NA															NA	

Total Welds Visually Inspected:

Total Welds Rejected:

Inspection Company: Tulsa Inspection Resources Inspector: William Wells OQ Exp. Date: 6/30/2016 Print Name: William Wells Inspector ID: B324 Signature: _____



Western Industrial X-Ray, Inc.
 P.O. Box 238 Fairfield, CA
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 (888) For X-Ray
 info@wixinc.net
 www.wixinc.net

Date 10/15/2013 Page 1 Of 2
 Radiographic Report or Control # RIG-D
 Customer PGE
 Address _____
 Customer's P.O. Number _____
 Job Location BRENTWOOD STATION
 Job Number 30842273
 Item Description 24" GIRTH WELDS
 100% Insp. Spot Insp. _____ Percent _____

Nondestructive Inspection Report

Piece or Joint #s	Weld Number	Film No.	A c c	R e j	Defect Code	Comments	Work Summary				
							Amount	Description			
EXT/J-2D	TI-1	3	✓			24"X.500	2	Travel Hours	2	# Persons	
					ISI	ISI@27" < 5"	1300	In Time	2100	Out Time	
					HB	HB@57" & 59" < 5"	8	Work Hours			
							0	Standby Hours			
							10	Total Hours			
							NO	Per Diem		# Persons	
							100	Mileage One Way		Round Trip <input checked="" type="checkbox"/>	
							2	Weld 24" in. dia.		Weld _____ in. dia.	
								Weld _____ in. dia.		Weld _____ in. dia.	
								Weld _____ in. dia.		Weld _____ in. dia.	
								Film _____ x _____		Type _____	
								Film _____ x _____		Type _____	
							Technique Date/Procedure Qualification				
							Inspection Specification <u>API-1104</u>				
							Acceptance Standard <u>20TH</u>				
							RT Procedure No. <u>7</u> Shooting Sketch (RSSS) <u>D</u>				
							View: <u>DWF</u> <u>SWV</u> Source <u>J-192</u> Curies <u>72</u>				
							Physical Source Size: <u>106X.120</u> Effective Focal Spot: <u>160</u>				
							Pb Screens: Front <u>.005</u> Center <u>N/A</u> Back <u>.005</u>				
							Dia. <u>24"</u> Material Type: <u>X60</u> Thickness: <u>.500</u> Reinf.: <u>.125</u>				
							SFD: <u>24"</u> Source To Obj.: <u>23.5</u> IQI Essential Wire: <u>016</u>				
							Exp. Time: <u>5</u> min. <u>0</u> sec. Dev. Time: <u>5</u> @ <u>68</u> deg.				
							Film Manufacturer: <u>Agfa</u> Speed: <u>D-5</u> No. of Exp. <u>3</u> Film <u>3</u>				
							Geometric Unsharpness (Ug): <u>.003</u> Avg. Density: <u>2.53</u>				
							Dia. _____ Material Type: _____ Thickness: _____ Reinf.: _____				
							SFD: _____ Source To Obj.: _____ IQI Essential Wire: _____				
							Exp. Time: _____ min. _____ sec. Dev. Time: _____ @ _____ deg.				
							Film Manufacturer: _____ Speed: _____ No. of Exp. _____ Film _____				
							Geometric Unsharpness (Ug): _____ Avg. Density: _____				
							Dia. _____ Material Type: _____ Thickness: _____ Reinf.: _____				
							SFD: _____ Source To Obj.: _____ IQI Essential Wire: _____				
							Exp. Time: _____ min. _____ sec. Dev. Time: _____ @ _____ deg.				
							Film Manufacturer: _____ Speed: _____ No. of Exp. _____ Film _____				
							Geometric Unsharpness (Ug): _____ Avg. Density: _____				

Film reviewed and in PGE possession

Scott Morris
 Scott Morris
 AT&S NDE Lv. III
 10-15-13

Defect Code

- BT - Burn Through
- C - Crack
- CV - Root Concavity
- CX - Root Convexity
- DT - Drop Through
- ICP - Inadequate Cross Penetration
- IF - Incomplete Fusion
- IP - Incomplete Penetration
- PD - Inadequate Penetration Due to High/Low
- Ox - Oxidation
- P - Porosity
- SL - Slag Lines
- SI - Slag Inclusions
- UC - Undercut
- TI - Tungsten Inclusion

1. [Signature] Level II
 Radiographer STEPHEN CARPENTER
 2. [Signature] Level I
 Radiographer's Assistant GERRIT VANSICKLE

The person signing this document represents that they have the authority to sign on the behalf of the customer. This report does not guaranty or warranty the condition of the materials tested. Western Industrial X-Ray, Inc. is not liable for any interpretation of results or losses attributable to any testing performed. There is no warranty for these services. Any liability is limited to the amount paid for the services in question. Final film interpretation is the responsibility of the customer.



[Signature] Customer's Signature Date 10/15/2013



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Nondestructive Inspection Report

Piece or Joint #s	Weld Number	Film No.	Acc	Rej	Defect Code	Comments	Work Summary						
							Amount	Description					
J-2C/EXT	TI-2	3	✓			24"X.500	SEE Travel Hours	# Persons					
					IUC	IUC@51"-54"<2"INI2"	Page In Time	Out Time					
					P	P@27"<.125"	#1 Work Hours						
							Standby Hours						
							Total Hours						
							Per Diem	# Persons					
							Mileage One Way	Round Trip					
							Weld _____ in. dia.	Weld _____ in. dia.					
							Weld _____ in. dia.	Weld _____ in. dia.					
							Weld _____ in. dia.	Weld _____ in. dia.					
							Film _____ x _____ Type _____						
							Film _____ x _____ Type _____						
Technique Date/Procedure Qualification													
Inspection Specification							API-1104						
Acceptance Standard							20TH						
RT Procedure No.							7	Shooting Sketch (RSSS)	D				
View:							DWF	SWV	Source Ir-192	Curies 72			
Physical Source Size:							.106X.120	Effective Focal Spot:	.160				
Pb Screens: Front							.005	Center	N/A	Back .005			
Dia.							24"	Material Type:	X60	Thickness:	.500	Reinf.:	.125
SFD:							24"	Source To Obj.:	23.5	IQI Essential Wire:	.016		
Exp. Time:							5 min	0 sec	Dev. Time:	5 @ 68 deg.			
Film Manufacturer:							Agfa	Speed:	D-5	No. of Exp.	3	Film	3
Geometric Unsharpness (Ug):							.003	Avg. Density:	2.53				
Dia.								Material Type:		Thickness:		Reinf.:	
SFD:								Source To Obj.:		IQI Essential Wire:			
Exp. Time:								min	sec	Dev. Time:	@	deg.	
Film Manufacturer:								Speed:		No. of Exp.		Film	
Geometric Unsharpness (Ug):								Avg. Density:					
Dia.								Material Type:		Thickness:		Reinf.:	
SFD:								Source To Obj.:		IQI Essential Wire:			
Exp. Time:								min	sec	Dev. Time:	@	deg.	
Film Manufacturer:								Speed:		No. of Exp.		Film	
Geometric Unsharpness (Ug):								Avg. Density:					

Film reworked and in PGE possession.

Scott Morris
 Scott Morris
 PGE AT&S NDE Lvl III
 10-15-13

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- P - Porosity
- SL - Slag Lines
- SI - Slag Inclusions
- UC - Undercut
- TI - Tungsten Inclusion

1. Stephen Carpenter Level II
 Radiographer
 2. Gerrit Vansickle Level I
 Radiographer's Assistant

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John M. Davis J
 Customer's Signature

Date 10/15/2013

