



Technical Services, Inc.

P. O. Box 721139, Houston, Texas 77272-1139
www.ndttechnicalservices.com

Phone: (281) 341-0469
Cell: (281) 389-4304
E-mail: NDTServices@aol.com

SUMMARY AND ASSESSMENT OF EOC - RE-INSPECTION PERFORMED ON GIRTH WELDS

In accordance with the approved PG&E Inspection Test Plan (ITP), on November 13 & 15, 2013 a re-inspection utilizing radiographic examination was performed on five (5) girth welds on the WV-132-13 project in Milpitas, CA. Once each of the welds were re-radiographed they were "fingerprinted" (weld features compared against original images to verify that the original radiographic film images of the weld matched the images of the re-inspected girth weld.

The following weld numbers were re-inspected:

<u>Original Weld Id Number</u>	<u>Reinspection Weld Id Number</u>
W-31	W-31-RI
W-32	W-32-RI
W-33	W-33-RI
TI-9	TI-9-RI
TI-10	TI-10-RI

The following were the results of these-inspections:

Weld Number: W-31-RI Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.

Weld Number: W-32-RI Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.

Weld Number: W-33-RI Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.

Weld Number: TI-9-RI Comments: Weld ***did not*** match fingerprint. However, after performing further investigation it was ultimately determined that this weld was originally identified as weld number W-34 which was acceptable as originally radiographed. Its fingerprint was matched and the weld was

determined to be acceptable to API 1104, 20th edition. On November 15th the next weld down from weld number W-34 was re-radiographed and this weld matched the fingerprint for the original weld number identified as TI-9 and the weld was determined to be acceptable to API 1104, 20th edition.

Weld Number: TI-10-RI Comments: Weld matched fingerprint and weld was determined to be acceptable to API 1104, 20th edition.

Upon a detailed review of the pipeline alignment sheets, PG&E was able to determine that the original weld number TI-9 was actually one weld joint east of the location for weld number W-34. On November 15, 2013 the field site was further excavated to locate the actual location for weld number TI-9 and the weld was re-radiographed, the fingerprint matched that of the original film images for TI-9, was evaluated and determined to be acceptable to API 1104, 20th edition.

Copies of WIX's Radiographic Testing Inspection reports indicating the results of their evaluation of welds examined are attached.

This summary completes the evaluation and documentation of the re-inspections performed on the five (5) identified girth welds on the WV-132-13 project in Milpitas, CA.

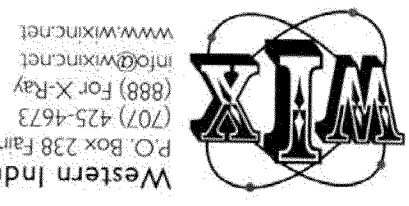
Respectfully submitted,

Redacted

Redacted

President
ASNT/ACCP Professional Level III – 2820

Report Form WIX 101



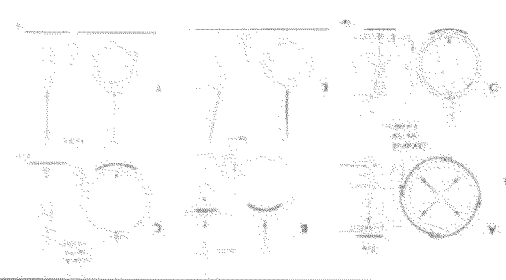
Western Industrial X-Ray, Inc.
P.O. Box 238 Fairfield, CA
(707) 425-4673
info@wixinc.net
www.wixinc.net

Date: 12/13/2013
Page: 1 of 1
Radiographic Report or Control # RIG-D
Customer: PGF
Customer's P.O. Number: 3500904964
Job Location: MILFITAS-CA LINE-132 RE-INSPCTION
Job Number: 30677907/41960097
Item Description: 20" GIRTH WELDS
100% Insp. Spot Insp. Percent

Nondestructive Inspection Report

Amount	Description	Work Summary	Comments
4	Travel Hours	3 # Persons 0830 In Time 1530 Out Time	20" X .375/500 IUC @ 62.5" x 27" N 12"
7	Standby Hours	0 Standby Hours	20" X .375/500 W-33-RI 3 ✓
11	Total Hours	11 Total Hours	20" X .375/800 W-32-RI 3 ✓
150	Mileage One Way	150 Mileage One Way	20" X .375/800 W-31-RI 3 ✓
5	Weld 20" in. dia.	Round Trip ✓ # Persons	PROCESSING MARKS Weld 20" in. dia. @ 56.24" 29"
5	Weld 3.5" x 24" Type D-7	Weld in. dia. in. dia. Weld in. dia. in. dia.	20" X .375/375 T1-10-RI 3 ✓
150	Per Diem	100X126 Effective Focal Spot 165	ES1 @ 9.25"-10"
150	RT Procedure No. RT-7 Shooting Sketch (RSS)	View DWV SWV Source J4192 Cures 87	ES1 @ 14.5"
150	Acceptance Standard	Physical Source Size: 100X126 Effective Focal Spot 165	P @ 57" < 3/32"
150	Inspection Specification	AP-1104	ES1 @ 9.25"-10"
150	Technique/Procedure/Qualification	AP-1104	ES1 @ 14.5"
150	RT Procedure No. RT-7 Shooting Sketch (RSS)	View DWV SWV Source J4192 Cures 87	P @ 57" < 3/32"
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150	Technique/Procedure/Qualification	AP-1104	P @ 57" < 3/32"

Defect Code	Defect Description	Level
BT - Burn Through		II
CP - Inadequate Cross Penetration		II
IF - Incomplete Fusion		I
IC - Inadequate Penetration Due to High Low		I
CA - Root Convexity		I
CU - Root Concavity		I
DL - Deep Cracks		I
SI - Slag Inclusions		I
UC - Undercut		I
TI - Tungsten Inclusion		I

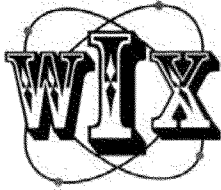


The person signing this document represents that they have the authority to sign on behalf of the customer. This report does not
 guarantee or warranty the condition of the material tested. Western Industrial X-Ray, Inc. is not liable for any interpretation of results or
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 services rendered. This disclaimer is the responsibility of the customer.

Customer's Signature: [Redacted]

Date: 11/13/2013

Radiographer: [Redacted]
 Radiographer's Assistant: [Redacted]



Western Industrial X-Ray, Inc.
 P.O. Box 238 Fairfield, CA
 (707) 425-4673
 (888) For X-Ray
 info@wixinc.net
 www.wixinc.net

Date: 11/15/2013 Page 1 Of 1
 Radiographic Report or Control # RIG-D
 Customer: PGE
 Address:
 Customer's P.O. Number: 2500904964
 Job Location: MILPITAS, CA LINE-132 RE-INSPECTION
 Job Number: 30677902/41960097
 Item Description: 20" GIRTH WELDS
 100% Insp. Spot Insp. _____ Percent _____

Nondestructive Inspection Report

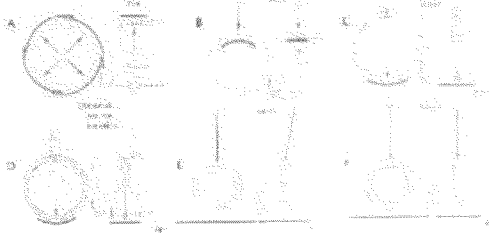
Piece or Joint #s	Weld Number	Film No.	A C C	R E T	Defect Code	Comments	Work Summary		
							Amount	Description	
20"X.375/.375	TI-9-RI	3	<input checked="" type="checkbox"/>		ESI IUC	ESI@8"TO9"~2"IN12" IUC@1"~2"IN12"	4 Travel Hours 1700 In Time 4 Work Hours 0 Standby Hours 8 Total Hours NO Per Diem 150 Mileage One Way 2 Weld 20" in. dia. Weld in. dia. Weld in. dia. Film x Type Film x Type	3 # Persons 2100 Out Time # Persons Round Trip <input checked="" type="checkbox"/> Weld in. dia. Weld in. dia. Weld in. dia. Type Type	
20"X.375/.500	W-28-RI	1	<input checked="" type="checkbox"/>			<i>Reshot for Info Only</i>			

Technique Date/Procedure Qualification:
 Inspection Specification: API-1104
 Acceptance Standard: 20TH
 RT Procedure No. RT-7 Shooting Sketch: (RSSS) D
 View: JWF SWV Source: Ir192 Curies: 109
 Physical Source Size: 106X114 Effective Focal Spot: 156
 Pb Screens: Front .005 Center N/A Back .005
 Dia: 20" Material Type: X60 Thickness: .375 Reinf: .125
 SFD: 20.47 Source To Obj: 20.1 IQI Essential Wire: .013
 Exp. Time: 1 min .05 sec. Dev. Time: 6 @ 69 deg.
 Film Manufacturer: Agfa Speed: D-7 No. of Exp: 3 Film: 3
 Geometric Unsharpness (Ug): .004 Avg. Density: 2.69
 Dia: 20" Material Type: X60 Thickness: .375 Reinf: .125
 SFD: 20.47 Source To Obj: 20.1 IQI Essential Wire: .013
 Exp. Time: 1 min .10 sec. Dev. Time: 6 @ 69 deg.
 Film Manufacturer: Agfa Speed: D-7 No. of Exp: 3 Film: 3
 Geometric Unsharpness (Ug): .004 Avg. Density: 2.42
 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: _____

Defect Code
 BT - Burn Through ICP - Inadequate Cross Penetration
 C - Crack IF - Incomplete Fusion

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

Redacted
 High-Low
 Level II
 Level I
 Radiographer's Assistant: GERRIT VANSICKLE



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Redacted

Date: 11/15/2013