

IN-FIELD SERVICES
GEIS Pipeline Integrity Team NDE

Pacific Gas & Electric Company

Hydrostatic Test Dig from October 7, 2011 to November 5, 2011

T43A/B_L147_B [Redacted]

Documents Contained Within:

H-Form Report T43A/B_L147_B [Redacted]

NDE Reports of T43A/B_L147_B [Redacted]

Photo Report of T43A/B_L147_B [Redacted]

Authors: [Redacted]

Date: December 2, 2011



DA/ILI	DA	ILI
Route Number: L-147	Site Designation: T43A/B_B	ILI Log Distance: NA
Date of Excavation: 10/7/2011	N-Segment: NA	RMP-11 Ref. Section: Table 5.6.2
Mile Point: Redacted	IMA Number: NA	Reference Girth Weld: NA
Examination Performed By: Redacted	Region Number: NA	Distance From Girth Weld: NA
PG&E Project Manager: Redacted	Subregion # (ICDA): NA	
Approved By: NA	Stationing: NA	
Order Number: NA		

Excavation Priority: Immediate Scheduled (For ILI - 1 Year Other) Monitor Effectiveness Hydro Test

Excavation Reason: ECDA ILI Recoat ICDA Other NA

If practical, take P/S or CIS reads before excavation: NA

Excavation Details: U/S (Uncorrected Field Measurement) NA

Northing: Redacted PDOP: NA Planned Excavation Length (Ft.): NA

Easting: Redacted Acc-: NA Actual Excavation Length (Ft.): 21.0ft

Centerline GPS Coordinates (Uncorrected Field Measurement) GPS File Name: Redacted

Northing: NA PDOP: NA

Easting: NA Acc-: NA

D/S Ditch End GPS Coordinates (Uncorrected Field Measurement)

Northing: Redacted PDOP: NA

Easting: Redacted Acc-: NA

1.0 Data Before Coating Removal

1.1 Native Soil Type: Clay Rock Sand Loam Wet Other NA

1.1A Backfill Material Found: Silt Slurry Native Depth of Cover (Ft.): 6.00ft

Comments: NA

1.2 Coating Type: HAA Somatic Plastic Tape Wax Tape FBE Powercrete

Bare/None Coal Tar Other: NA Comments: NA

Coating Thickness (Inches): 0.250in Number of Layers: 2

1.3 Holiday Testing Performed?: Yes No Voltage Used: NA Map Location of Holidays Below:

Device Used: Coil Wet Sponge Comments: NA

1.4 Pipe-to-Soil Potentials in Ditch (-mV):

US: 12:00	-526	3:00	-530	6:00	-535	9:00	-526
DS: 12:00	-661	3:00	-658	6:00	-640	9:00	-663

Comments: CP system may be turned off.

1.5 Soil Resistivity in Ditch (0-cm):

Method: 4-Pin 24469.5 ohm/cm Soil Box NA

Comments: NA SRM-100 US: 131.5KΩ/cm DS: 6.1 KΩ/cm

1.6 Soil Sample Location Comments: Ditch end (DS) 6:00 position under pipe.

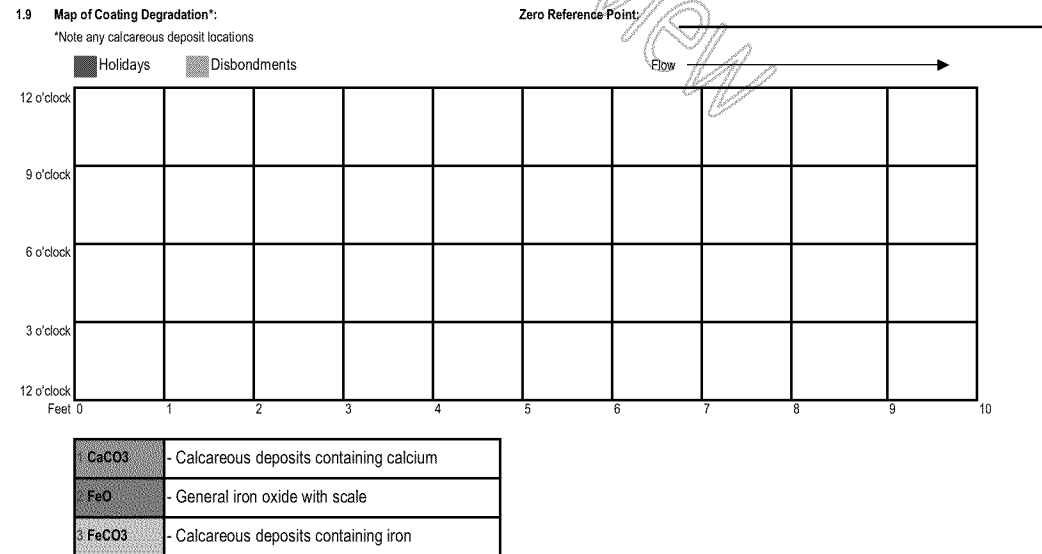
1.7 Ground Water Present?: Yes No Sample(s) Collected?: Yes No Sample pH: NA

Comments: NA

1.8 Coating Condition: Good - Adhered to Pipe Fair - Coating Partially Disbonded or Degraded

Poor - Coating Significantly Disbonded or Missing

Comments: Coating removed & tie in weld areas blasted. Pipe section removed and test pipes installed. Removed pipe section was also assessed and was in good condition except for coating damage from removal and transportation. See comments page 10.



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Form H: Direct Examination Data Sheet - Page 2 of 10

DA/ILI
 Route Number: L-147
 Date of Excavation: 10/7/2011
 Mile Point: Redacted
 Examination Performed By: Redacted
 PG&E Project Manager: Redacted
 Approved By: Redacted
 Order Number: NA

DA
 Site Designation: T43A/B_B
 N-Segment: NA
 IMA Number: NA
 Region Number: NA
 Subregion # (ICDA): NA
 Stationing: NA

ILI
 ILI Log Distance: NA
 RMP-11 Ref. Section: Table 5.6.2
 Reference Girth Weld: NA
 Distance From Girth Weld: NA

1.10 Photos Taken?: Yes No
 *See Photo Log for additional information.

1.11 Coating Sample Taken?: Yes No Location of Sample: NA

1.12 Liquid Underneath Coating?: Yes No If Yes, pH of Liquid: NA

1.13 Corrosion Product Present?: Yes No If Yes, Was Sample Taken?: Yes No
 Comments: NA

1.14 Soil pH (Sb Electrode): Upstream: 6.0 Downstream: 7.5 Pipe pH: 6.0

2.0 Data After Coating Removal

2.1 Pipe Temperature (°F): 60.0° F Measured Pipe Diameter (In.): 63" = 20.05"

2.2 Weld Seam Type: DSAW SSAW ERW SMLS
 Spiral Lap Flash AO Smith IF CAN'T DETERMINE, VISUALLY PERFORM MACROETCH & LOCATE

2.3 Girth Weld Coordinates & Identify Type (See Table 5.7.3):
 Northing: NA PDOP: NA
 Easting: NA Acc: NA LS Weld Clock Position(s): 8:55
 Elevation: NA

2.4 Damage Found:
 Corrosion Damage Yes No Mechanical Damage Yes No
 Other Damage: Non relevant tool marks, no corrosion found greater than 20%

2.5 UT Wall Thickness Measurements:

	US / DS		US / DS		US / DS		US / DS
TDC:	0.270"/0.275"	1 O'clock	0.267"/0.272"	2 O'clock	0.267"/0.271"	3 O'clock	0.265"/0.271"
4 O'clock	0.268"/0.270"	5 O'clock	0.266"/0.271"	6 O'clock	0.268"/0.273"	7 O'clock	0.266"/0.272"
8 O'clock	0.269"/0.269"	9 O'clock	0.261"/0.263"	10 O'clock	0.266"/0.264"	11 O'clock	0.269"/0.270"

UT Wall Thickness Grid @ 6:00 is required. Be sure to attach grid to H-Form electronically. See page 6 of 10.

2.6 Wet Fluorescent Mag. Part. Is Required. Comments: 2 linear indications on the removed pipe section. See MT & Photo report.
 Were there any linear indications? Yes No If Yes, attach NDE report electronically as part of the H-Form. Report to include black light and white light photos of indications.

2.7 Take Photos to Document Corrosion and Other Anomalies*
 *See Photo Log for additional information.

2.8 Overview Map of Corroded Area*:
 *See Pit Depth Measurement Grid for additional Information Zero Reference Point: NA

Flow

*Note any calcareous deposits.

12 o'clock											
9 o'clock											
6 o'clock											
3 o'clock											
12 o'clock											
Feet	0	1	2	3	4	5	6	7	8	9	10

Form H: Direct Examination Data Sheet - Page 3 of 10

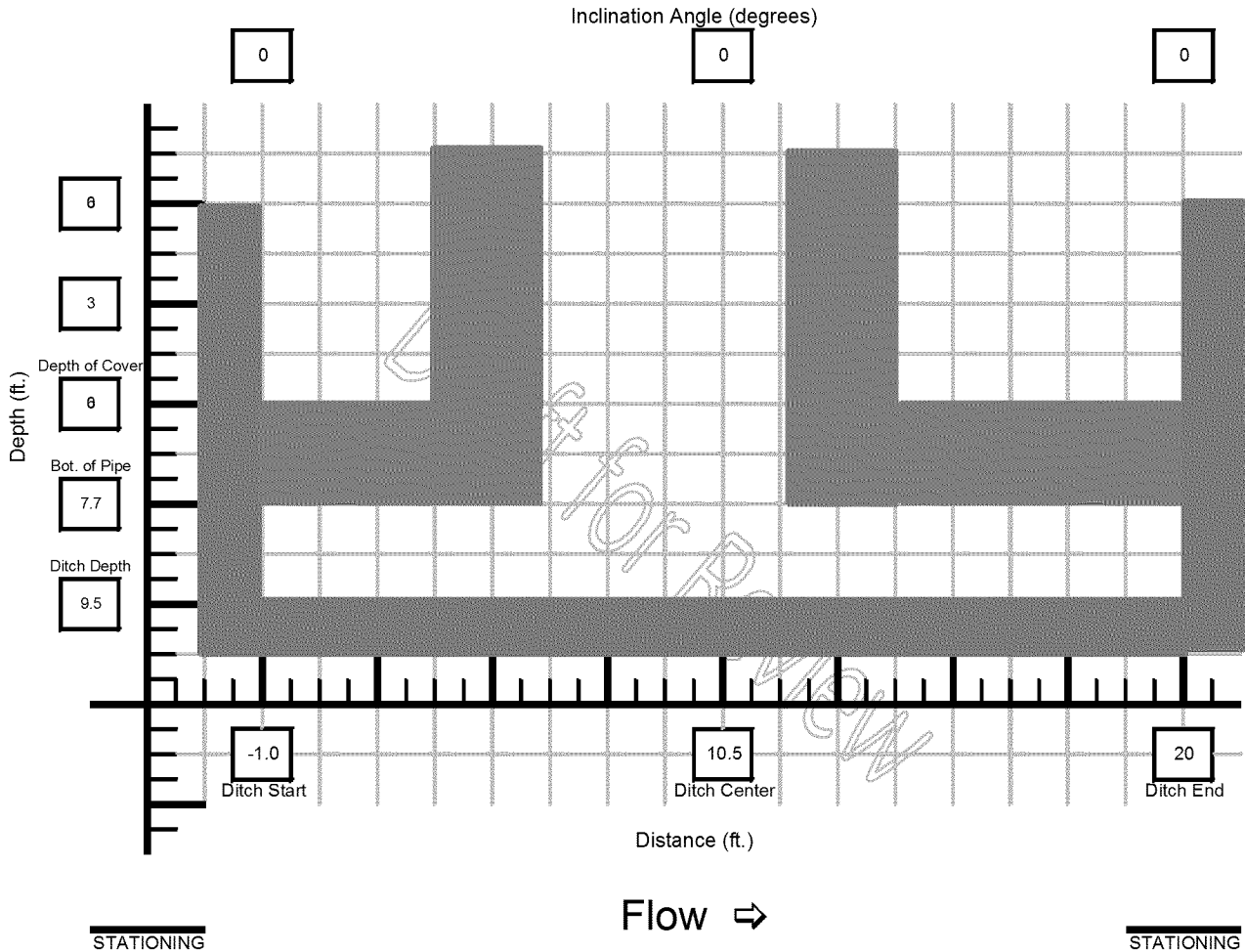
DA/ILI
 Route Number: L-147
 Date of Excavation: 10/7/2011
 Mile Point: Redacted
 Examination Performed By: [Redacted]
 PG&E Project Manager: [Redacted]
 Approved By: NA
 Order Number: NA

DA
 Site Designation: T43A/B_B
 N-Segment: NA
 IMA Number: NA
 Region Number: NA
 Subregion # (ICDA): NA
 Stationing: NA

ILI
 ILI Log Distance: NA
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 Reference Girth Weld: NA
 Distance From Girth Weld: NA

Excavation Drawing:

At minimum draw pipe elevation profile and indicate stationing of 1) low point and 2) critical inclination angle. Place an arrow on the drawing indicating direction of gas flow in the region(s). Other labels may also be added (e.g. "to Station").



NOTES: (Record stationing and names of nearby landmarks such as creeks and roads. Provide any additional information that may help in spatially positioning pipe):






**See attached Delorme screen shot on page 11.

EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

DA/ILI
 Route Number: L-147
 Date of Excavation: 10/7/2011
 Mile Point: Redacted
 Examination Performed By: _____
 PG&E Project Manager: _____
 Approved By: NA
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	.001 - .009
	.010 - .099
	.100 - .199
	.200 - .299
	Highest pit reading

Grid Size = _____ Inch x _____ Inch (specify grid size)
 Clock Position (specify below)

Anomaly # NA Grid # NA

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A																						
B																						
C																						
D																						
E																						
F																						
G																						
H																						
I																						
J																						
K																						
L																						
M																						
N																						
O																						
P																						
Q																						
R																						
S																						
T																						
U																						
V																						
W																						
X																						

PIT DEPTH GRID 1 OF 2

EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

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 Route Number: L-147
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 PG&E Project Manager: Redacted
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 Order Number: NA

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 N-Segment: NA
 IMA Number: NA
 Region Number: NA
 Subregion # (ICDA): NA
 Stationing: NA

ILI
 ILI Log Distance: NA
 RMP-11 Ref. Section: Table 5.6.2
 Reference Girth Weld: NA
 Distance From Girth Weld: NA

	.001 - .009
	.010 - .099
	.100 - .199
	.200 - .299
	Highest pit reading

Grid Size = _____ Inch x _____ Inch (specify grid size)
 Clock Position (specify below)

Anomaly # NA Grid # NA

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A																						
B																						
C																						
D																						
E																						
F																						
G																						
H																						
I																						
J																						
K																						
L																						
M																						
N																						
O																						
P																						
Q																						
R																						
S																						
T																						
U																						
V																						
W																						
X																						

Draft for Review

NA

PIT DEPTH GRID 2 OF 2

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INTERNAL CORROSION WALL LOSS GRID

<p>DA/ILI</p> <p>Route Number: <u>L-147</u></p> <p>Date of Excavation: <u>10/7/2011</u></p> <p>Mile Point: <u>Redacted</u></p> <p>Examination Performed By: <u>Redacted</u></p> <p>PG&E Project Manager: <u>Redacted</u></p> <p>Approved By: <u>Redacted</u></p> <p>Order Number: <u>NA</u></p>	<p>DA</p> <p>Site Designation: <u>T43A/B_B</u></p> <p>N-Segment: <u>NA</u></p> <p>IMA Number: <u>NA</u></p> <p>Region Number: <u>NA</u></p> <p>Subregion # (ICDA): <u>NA</u></p> <p>Stationing: <u>NA</u></p>	<p>ILI</p> <p>ILI Log Distance: <u>NA</u></p> <p>RMP-11 Ref. Section: <u>Table 5.6.2</u></p> <p>Reference Girth Weld: <u>NA</u></p> <p>Distance From Girth Weld: <u>NA</u></p>
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Grid Size = 1 Inch x 1 Inch
 Clock Position (specify below)
 All measurements are in inches.

UT Grid is centered @ 6:00 position on pipe.

	1	2	3	4	5	6	7	8	9	10	11	12
A	0.251"	0.251"	0.249"	0.249"	0.249"	0.249"	0.249"	0.248"	0.248"	0.248"	0.248"	0.248"
B	0.251"	0.254"	0.251"	0.251"	0.249"	0.249"	0.249"	0.249"	0.248"	0.248"	0.248"	0.249"
C	0.253"	0.251"	0.251"	0.251"	0.251"	0.251"	0.251"	0.249"	0.249"	0.258"	0.249"	0.249"
D	0.251"	0.251"	0.251"	0.251"	0.251"	0.249"	0.250"	0.249"	0.249"	0.248"	0.247"	0.249"
E	0.251"	0.251"	0.251"	0.251"	0.251"	0.251"	0.251"	0.251"	0.247"	0.248"	0.247"	0.248"
F	0.251"	0.251"	0.251"	0.251"	0.249"	0.249"	0.251"	0.249"	0.249"	0.247"	0.248"	0.249"
G	0.251"	0.251"	0.247"	0.246"	0.249"	0.248"	0.247"	0.247"	0.246"	0.247"	0.248"	0.247"
H	0.248"	0.249"	0.249"	0.249"	0.248"	0.247"	0.247"	0.247"	0.246"	0.246"	0.246"	0.246"
I	0.249"	0.249"	0.249"	0.249"	0.247"	0.246"	0.244"	0.247"	0.244"	0.244"	0.247"	0.246"
J	0.247"	0.247"	0.247"	0.246"	0.246"	0.246"	0.242"	0.244"	0.244"	0.243"	0.244"	0.246"
K	0.247"	0.247"	0.247"	0.246"	0.246"	0.246"	0.244"	0.244"	0.244"	0.244"	0.244"	0.246"
L	0.249"	0.247"	0.247"	0.247"	0.248"	0.248"	0.248"	0.242"	0.244"	0.244"	0.246"	0.244"

INTERNAL CORROSION GRID

Form H: Direct Examination Data Sheet - Page 10 of 10

DA/ILI
 Route Number: L-147
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 Mile Point: Redacted
 Examination Performed By: Redacted
 PG&E Project Manager: Redacted
 Approved By: NA
 Order Number: NA

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 Reference Girth Weld: NA
 Distance From Girth Weld: NA

3.0 RECOAT DATA

3.1 Sandblast Media: Sharp Shot 30/60 Anchor Profile Measurement: Average: 3.2 mils

3.2 Pipe Recoated With:
 Powercrete J Poly Tape Bar-Rust 235 Dev Grip 238 Dev Tar 247 Protal 7200 PE Tape

3.3 For Epoxy Coating Systems, Record Environmental Condition:

Air Temperature: 62.4°F Dew Point: 45.1°F
 Pipe Temperature: 67.0°F Relative Humidity: 51.4%
 Time of Day: 12:30 pm

3.4 Repair Coating Hardness (If ARC Coating):
 US 3:00 - 82 6:00 - 79 9:00 - 79 12:00 - 79
 DS 3:00 - 79 6:00 - 75 9:00 - 79 12:00 - 81

3.5 Measured Coating Thickness:
 US 3:00 - 33.7 6:00 - 38.7 9:00 - 57.5 12:00 - 27.4
 DS 3:00 - 37.3 6:00 - 28.6 9:00 - 39.0 12:00 - 29.3

Holiday Tested?: Yes No
 Device Used: Coil Wet Sponge Voltage Used: UNK Repair All Holidays: YES

3.6 Coupon Test Station Installed?: Yes No ETS Installed?: Yes No

If Yes, Date Installed: NA

Surface Configuration: Fink G-5 Box Carsonite Other: NA

3.7 Backfill Material: Native Imported Sand Other: NA

Coating Protections?: Yes No

If Yes, Check One: Rockguard Tuf-E-Nuf Conwed Other: NA

3.8 Pipe-to-Soil Readings Over Bell Hole After Backfill: NA

*If specified, a CIS should be done for approximately 100' on either side of the bell hole. Attach data.

Comments: NA

3.9 Attach site sketch of excavation site.

4.0 REPAIR DATA

4.1 Repair Made: Yes No 4.2 Number of Repair Made: NA

4.3 Repair Type: Metallic Sleeve Non Metallic Sleeve Replace Can Filler Metal Other

4.4 Damage Repaired: Corrosion Mechanical Other

Misc. Comments/Information: T43A had coating removed, area for inspection was blasted from coating up to test pipe tie in weld. About 1 ft of coating was inspected. T43B had coating removed, area for inspection was blasted from coating up to test pipe tie in weld. About 1.5 ft of coating was inspected. Removed pipe section was inspected at the PG&E yard.

GE Energy
INSPECTION & LIFE EXTENSION SERVICES

MAGNETIC PARTICLE EXAMINATION REPORT							<input type="checkbox"/> Nuclear	<input checked="" type="checkbox"/> Non-Nuclear	
To: Pacific Gas & Electric Company					[Redacted]		Date: 10/7/2011		
Project: T43A/B_L147 [Redacted]									
Purchase Order No:				GEIS Job No: LAPI0015					
Item	Weld <input checked="" type="checkbox"/>	Structural <input type="checkbox"/>	Casting <input type="checkbox"/>	Machinery <input type="checkbox"/>	Mach. Parts <input type="checkbox"/>	Pipe <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>	Other: N/A	
	Non-Weld <input checked="" type="checkbox"/>	Plate <input type="checkbox"/>	Pipe <input checked="" type="checkbox"/>	Bar <input type="checkbox"/>	Casting <input type="checkbox"/>	Mach. Parts <input type="checkbox"/>	N/A <input type="checkbox"/>	Other: N/A	
Material	Size 20"	Material Thickness 0.250"	Type of Base Material Carbon Steel		Type of Filler Material C/S Smooth		Weld <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> As Welded	
Location	[Redacted]					L-147			
Acceptance Standards	Customer Specifications				Procedure GEIS QCP # 500 Rev 15				
Type of Check	Initial <input checked="" type="checkbox"/>	Plate Edge <input type="checkbox"/>	In Process <input type="checkbox"/>	Back Gouge <input type="checkbox"/>	Root Pass <input type="checkbox"/>	Repair <input type="checkbox"/>	12 Hour <input type="checkbox"/>	24 Hour <input type="checkbox"/>	Final <input checked="" type="checkbox"/>
Type of Inspection	<input type="checkbox"/> Longitudinal		<input type="checkbox"/> Coil		<input type="checkbox"/> DC Probe		<input checked="" type="checkbox"/> Continuous		Other:
	<input checked="" type="checkbox"/> Wet		<input type="checkbox"/> Dry		<input type="checkbox"/> Direct Contact		<input checked="" type="checkbox"/> Residual		
	<input type="checkbox"/> Circular		<input type="checkbox"/> AC Prod		<input checked="" type="checkbox"/> Yoke		<input type="checkbox"/> Other		
MT Yoke & Model - Serial No. / Blacklight Model - Serial No. Parker DA-400 - S# 18830 / Spectroline BIP - S# 1597251					Surface Preparation Method Abrasive Blasting (Kleen Blast) - NACE 2 Finish				
Inspection Medium / Color / Batch No. Magnaglo 14A / Flourescent Green / 09M12K					Demagnetization Method / Equipment N/A				
Reference: Summary <input checked="" type="checkbox"/> See Attachment						Results of Inspection			
The following areas were requested to be inspected:						- No relevant indications found @ time of insp.			
Bare pipe: -0.40' to 1.35' from original U/S ditch start.						- No relevant indications found @ time of insp.			
Bare pipe : 17.4' to 18.45' from original U/S ditch start.						2 Linear indications were found.			
Removed pipe section.									
Summary:									
Lin-01: Axial Start=1.60' (From U/S end of pipe), AL=1.58" , CW=0.020" , CLK Position= 4:00									
Lin-02: Axial Start=2.33' (From U/S end of pipe), AL=1.20" , CW=0.020" , CLK Position= 4:06									
These are on the removed pipe section.									
Indications were on the removed pipe section. Please see attached photo report for additional information.									
Copy To: <i>Pacific Gas & Electric Company</i> <i>GE Inspection Services (Los Angeles)</i>				Requested By: [Redacted]			Reported By (Technician): [Redacted]		
				<input checked="" type="checkbox"/> Customer Specifications			NDT supervisor:		
				<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject			[Redacted]		

NOTICE: THIS EXAMINATION REPORT IS A REPORT OF THE RESULTS OF THE NDT PROCEDURE ACTUALLY PERFORMED BY THIS COMPANY IT IS SUBJECT TO THE LIMITATIONS OF THE TESTING SPECIFICATIONS AND PROCEDURES WHICH WERE UTILIZED. BY FURNISHING THIS REPORT, **GE INSPECTION & LIFE EXTENSION SERVICES** DOES NOT GUARANTEE ANY CONDITION OF THE TESTED SPECIMEN.



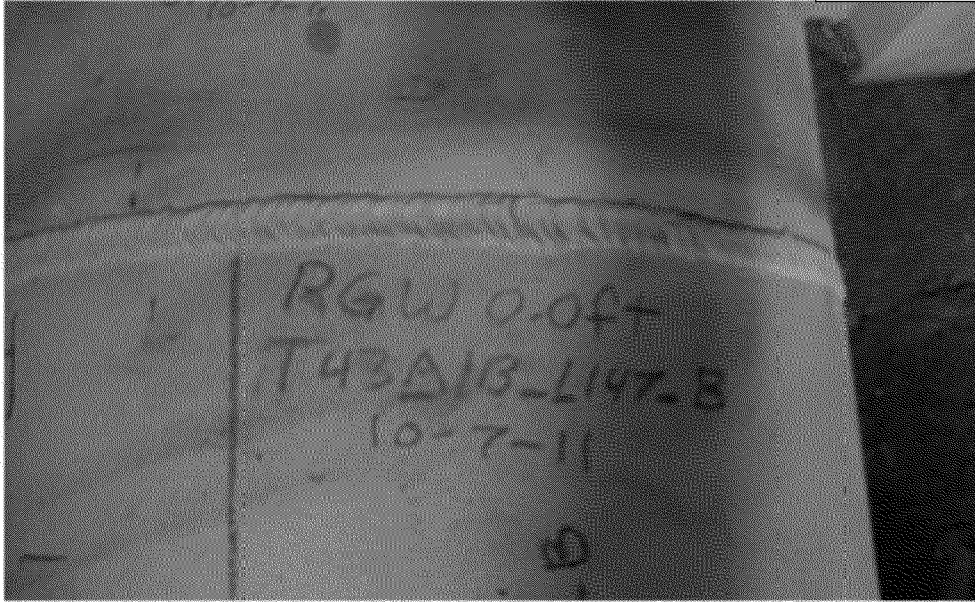
GE Energy
Inspection & Life Extension Services

ULTRASONIC EXAMINATION REPORT							<input type="checkbox"/> Nuclear	<input checked="" type="checkbox"/> Non-Nuclear
To: Pacific Gas & Electric Company					Fr: Redacted	Date: 10/7/2011		
Project: T43A/B_L147_B Redacted								
Purchase Order No:				GEIS Job No: LAPI0015				
Item	<input checked="" type="checkbox"/> Weld	<input type="checkbox"/> Structural	<input type="checkbox"/> Casting	<input type="checkbox"/> Machinery	<input type="checkbox"/> Mach. Parts	<input checked="" type="checkbox"/> Pipe	<input type="checkbox"/> N/A	Other:
	<input checked="" type="checkbox"/> Non-Weld	<input type="checkbox"/> Plate	<input type="checkbox"/> Pipe	<input type="checkbox"/> Bar	<input type="checkbox"/> Casting	<input type="checkbox"/> Mach. Parts	<input type="checkbox"/> N/A	Other:
Material	Size: 20"	No. of Pieces: 1	Type of Base Metal: Carbon Steel	Type of Filler Material: C/S	Weld <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Smooth <input type="checkbox"/> As Welded			
Location	Redacted				System: L-147			
Acceptance Standards	Customer Specifications				Procedure: QCP-601			
Type of Inspection	<input checked="" type="checkbox"/> Soundness	<input checked="" type="checkbox"/> Thickness	<input type="checkbox"/> Bond	<input checked="" type="checkbox"/> Single Crystal <input type="checkbox"/> Dual Crystal			Transducer Serial No.: 020HFC	
	<input checked="" type="checkbox"/> Pulse Echo	<input type="checkbox"/> Angle-Beam	<input type="checkbox"/> Other	Frequency: 5 MHz	Size: 0.375"	Angle: 0°	Couplant / Batch # Sonatest Ultragel II / 25-901 07225 AF	
	UT Equipment/Model: USN-60			<input checked="" type="checkbox"/> Flat	<input type="checkbox"/> Concave	<input type="checkbox"/> Convex	Serial No.:	
	Serial # 01NLKN			Standard:	Material:	Notch Depth:	Serial No.:	
	Calibration Date: 10/5/2011			<input checked="" type="checkbox"/> Step Wedge	<input type="checkbox"/> Tube Wedge	Material: C/S	Thickness Range: 0.200" - 0.500"	Serial No.: V34693
Calibration Due: 1/5/2012								
Reference: Summary <input checked="" type="checkbox"/> See Attachment					Results of Inspection:			
The following areas were requested to be inspected:								
12" x 12" (1"x1" grid) at a random 6:00 position on the pipe.					- No relevant indications @ time of inspection.			
12" lamination scans at cut-line locations.					- No relevant indications @ time of inspection.			
Thickness readings US & DS inspection areas at the clock positions.					- No relevant indications @ time of inspection.			
** Please see attached reports for additional information.								
Copy To: Pacific Gas & Electric Company GE Inspection Services (Los Angeles)				Requested By: Redacted		Reported By (Technician): Redacted		
				<input checked="" type="checkbox"/> Customer Specifications <input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject		NDT Supervisor: Redacted		

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Overview of Reference Girth Weld measurements were taken from.



Overview of coating condition -1ft to 2ft, 3:00 position

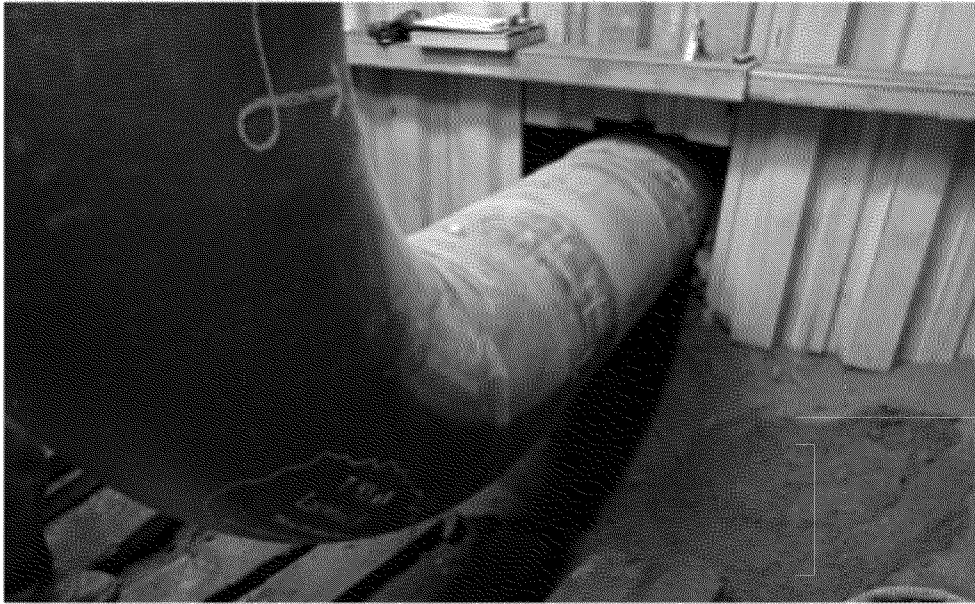


Overview of coating condition -1ft to 2ft, 3:00 position



Overview of coating condition -1ft to 2ft, 9:00 position





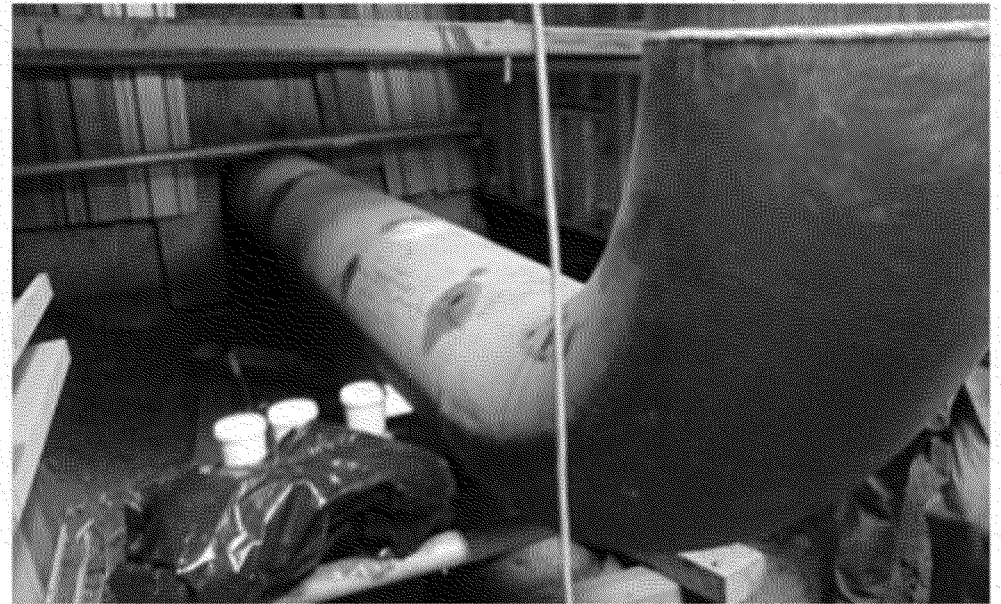
Overview of coating condition -1ft to 2ft, 9:00 position



Overview of coating condition 17ft to 20ft, 3:00 position



Overview of coating condition 17ft to 20ft, 3:00 position



Overview of coating condition 17ft to 20ft, 9:00 position





Overview of coating condition 17ft to 20ft, 9:00 position



Overview of MPI layout -1ft to 2ft, 3:00 position

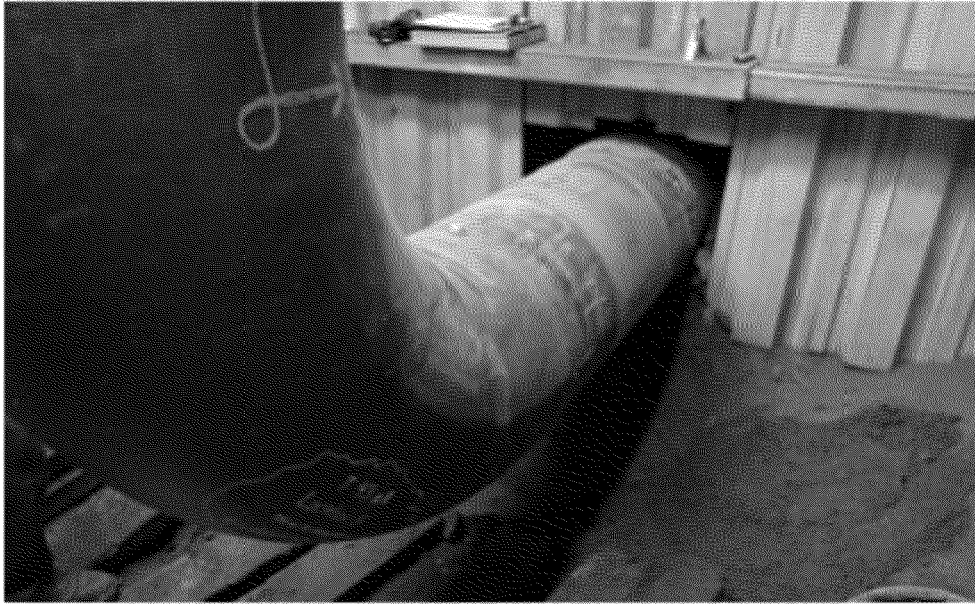


Overview of MPI layout -1ft to 2ft, 3:00 position



Overview of MPI layout -1ft to 2ft, 9:00 position





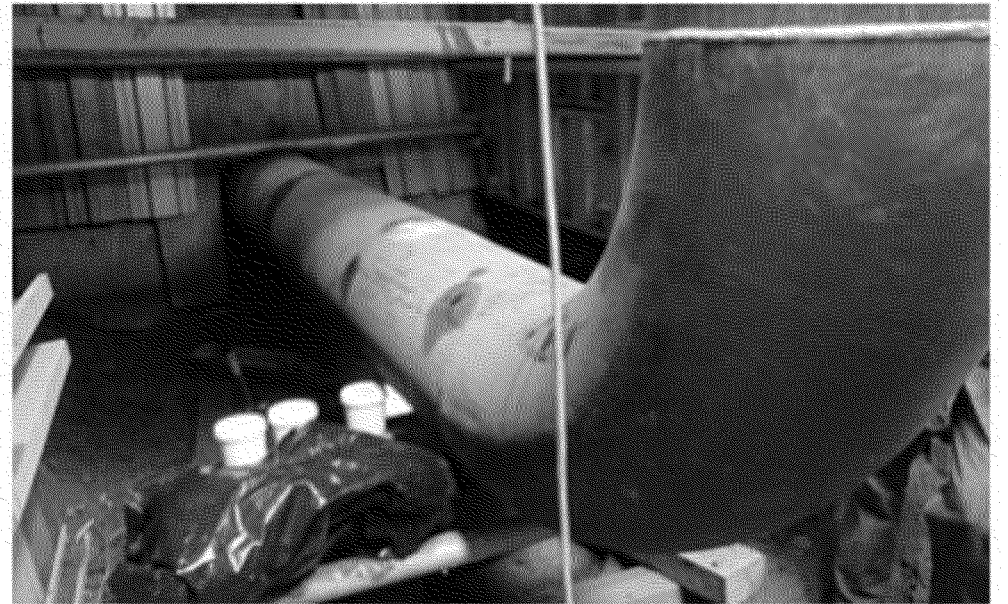
Overview of MPI layout -1ft to 2ft, 9:00 position



Overview of MPI layout 17ft to 20ft, 3:00 position



Overview of MPI layout 17ft to 20ft, 3:00 position

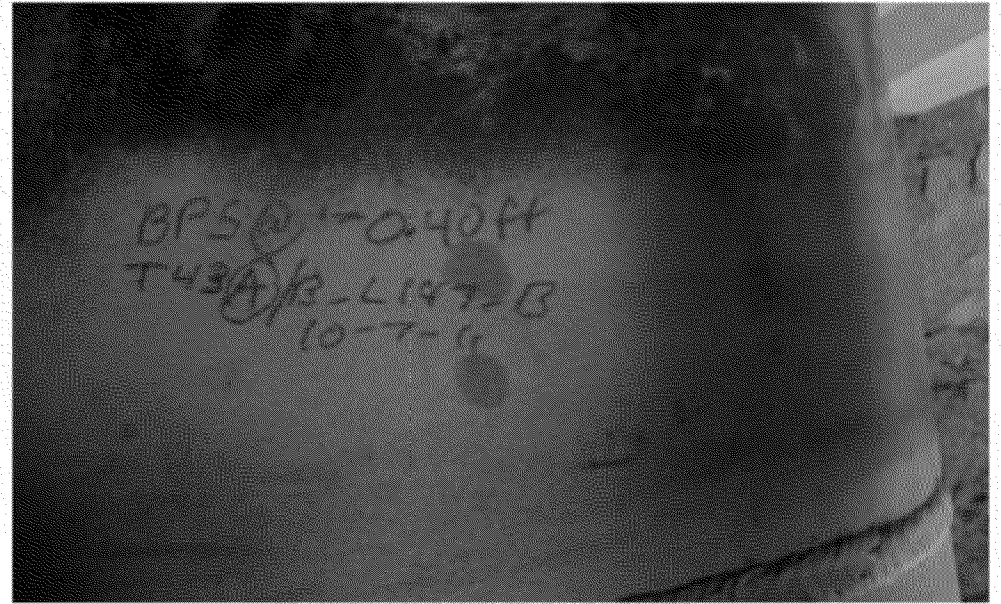


Overview of MPI layout 17ft to 20ft, 9:00 position

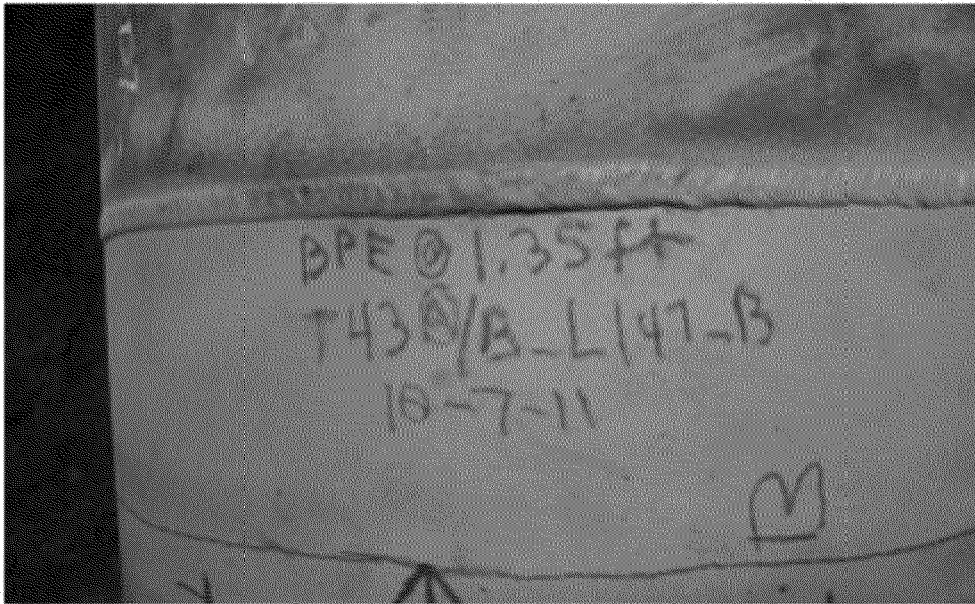




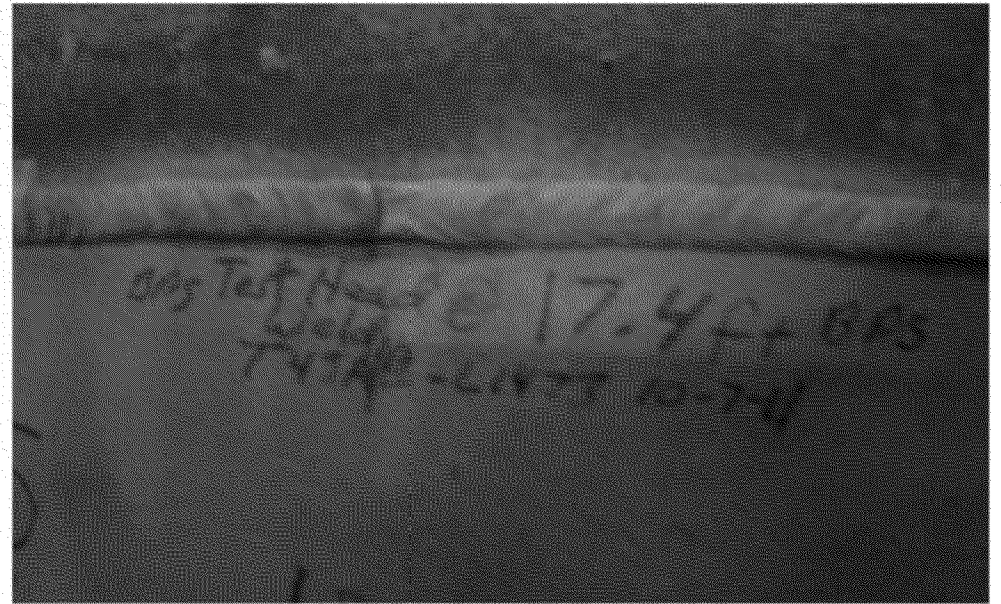
Overview of MPI layout 17ft to 20ft, 900 position



Overview of bare pipe start

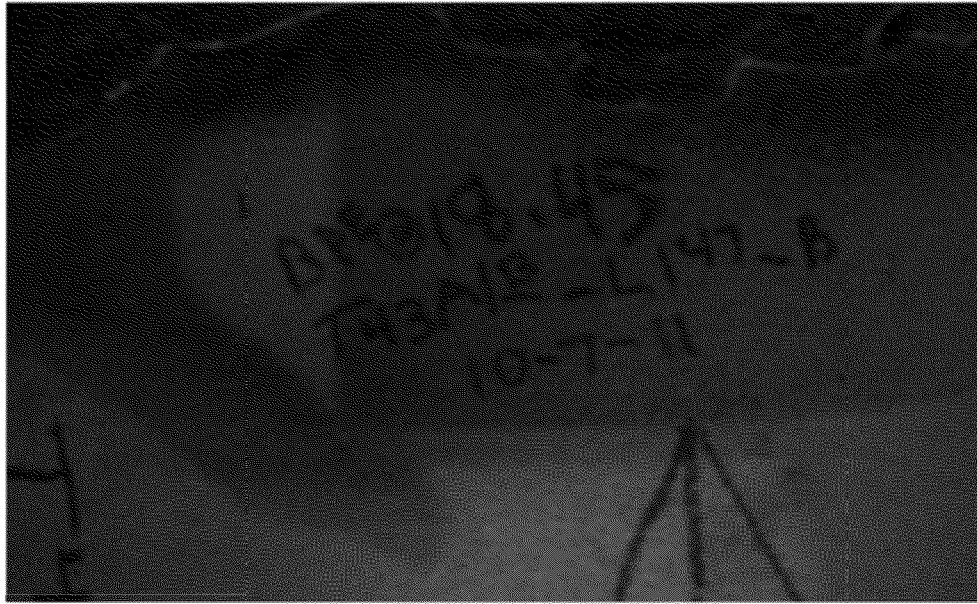


Overview of bare pipe end

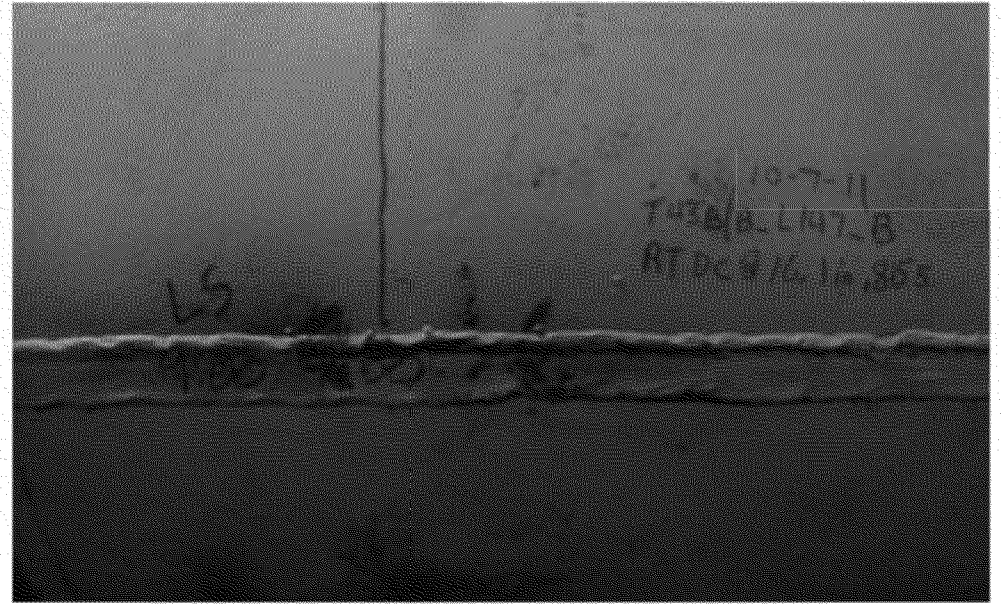


Overview of bare pipe start

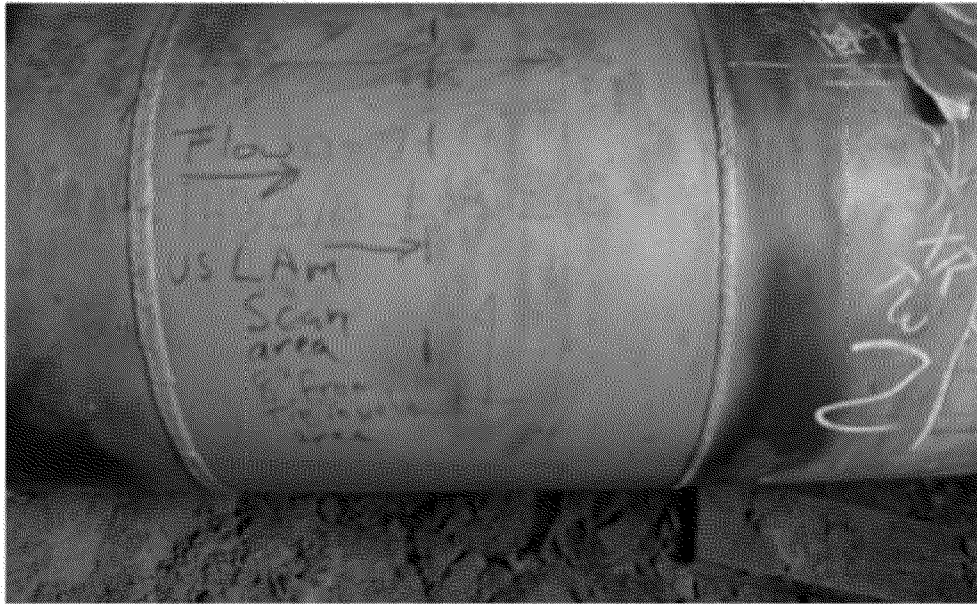




Overview of bare pipe end



Overview of feature joint long seam @ 8:55



Overview of US lamination scan area.



Overview of DS lamination scan area.





Overview of US MPI OK and Lamination scan OK.



Overview DS of MPI OK and Lamination scan OK.



Overview of pipe Ph.



Closeup of pipe Ph.



Redacted



Removed pipe section coating assesment 3:00



Overview of coating condition 3:00 position



Overview of coating condition 3:00 position

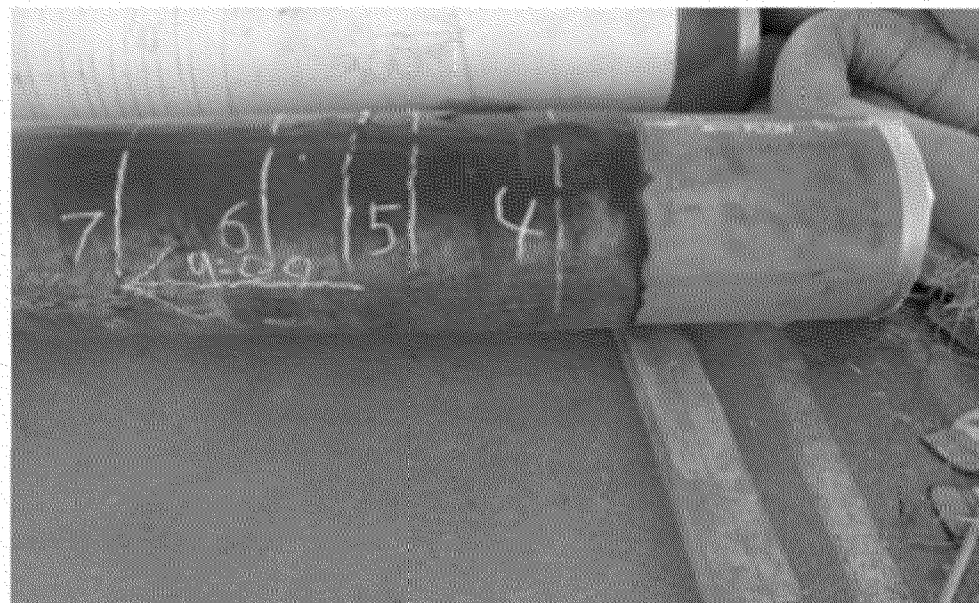


Overview of coating condition 3:00 position

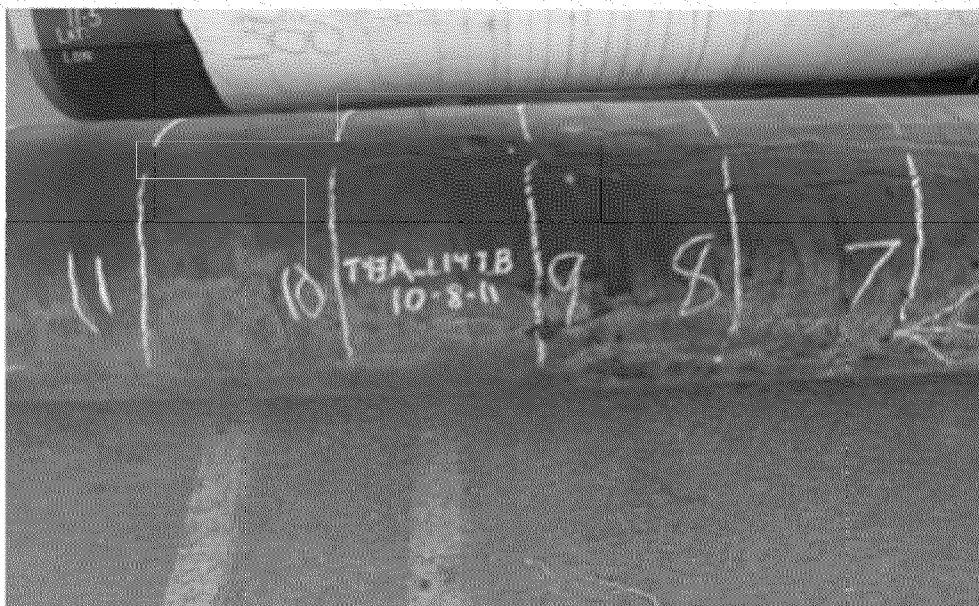




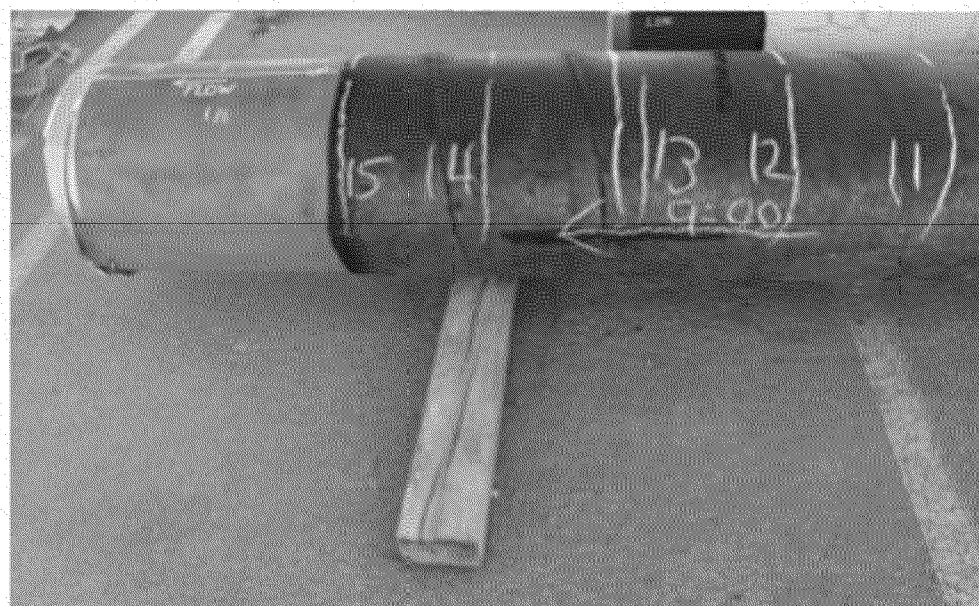
Removed pipe section coating assesment 9:00



Overview of coating condition 9:00 position

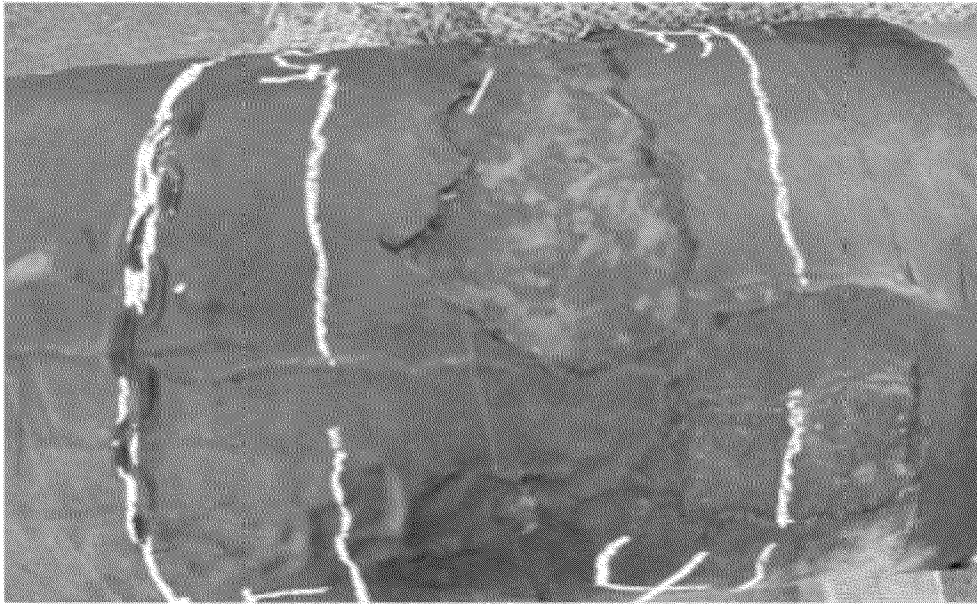


Overview of coating condition 9:00 position

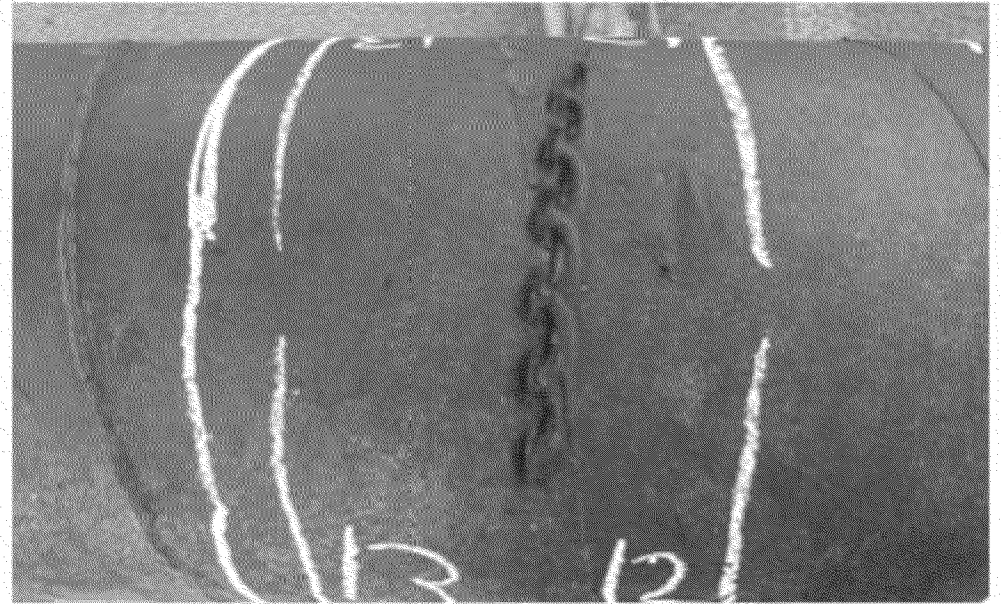


Overview of coating condition 9:00 position

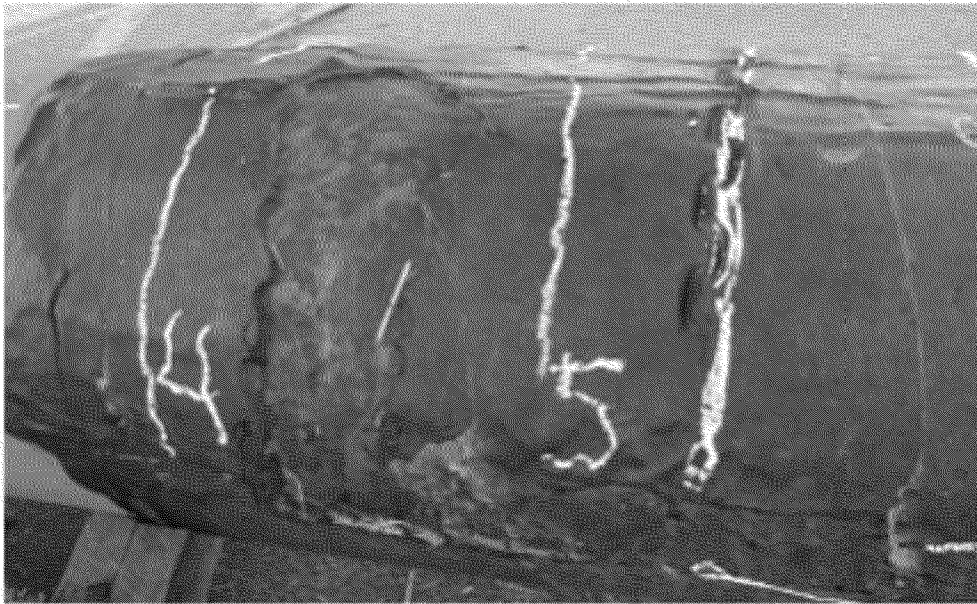




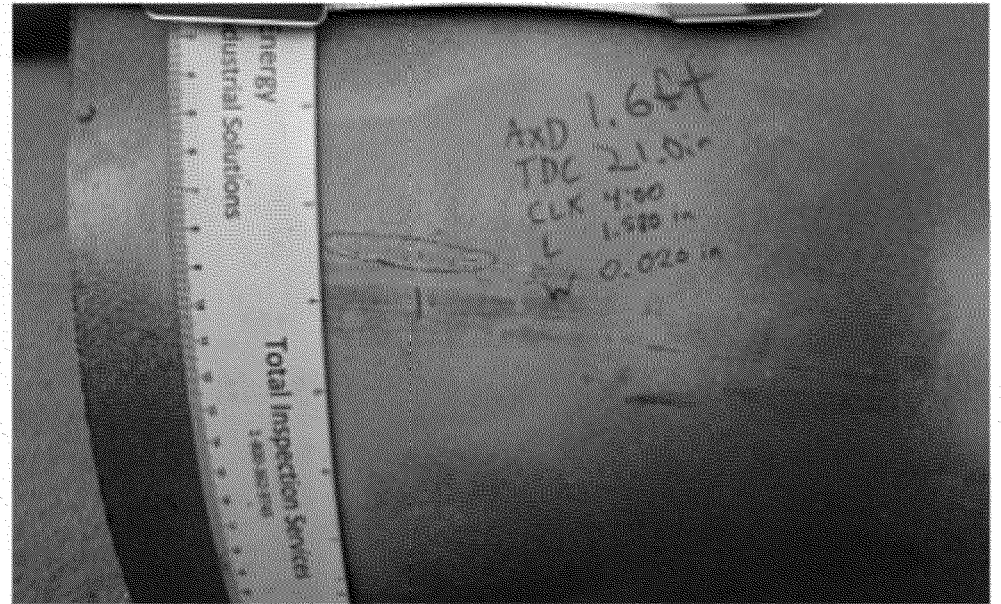
Coating damaged from removal process.



Coating damaged from removal process.

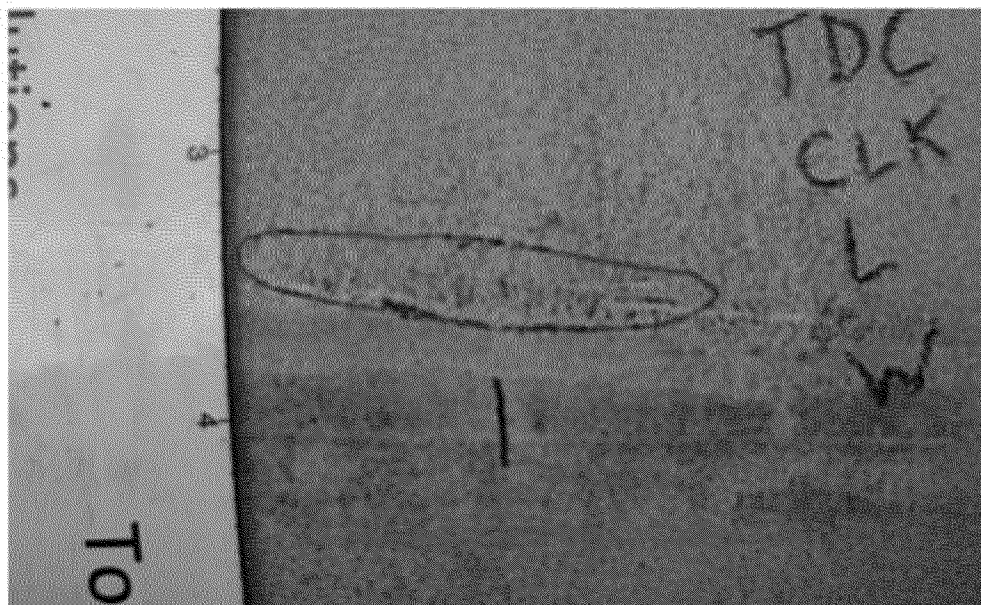


Coating damaged from removal process.

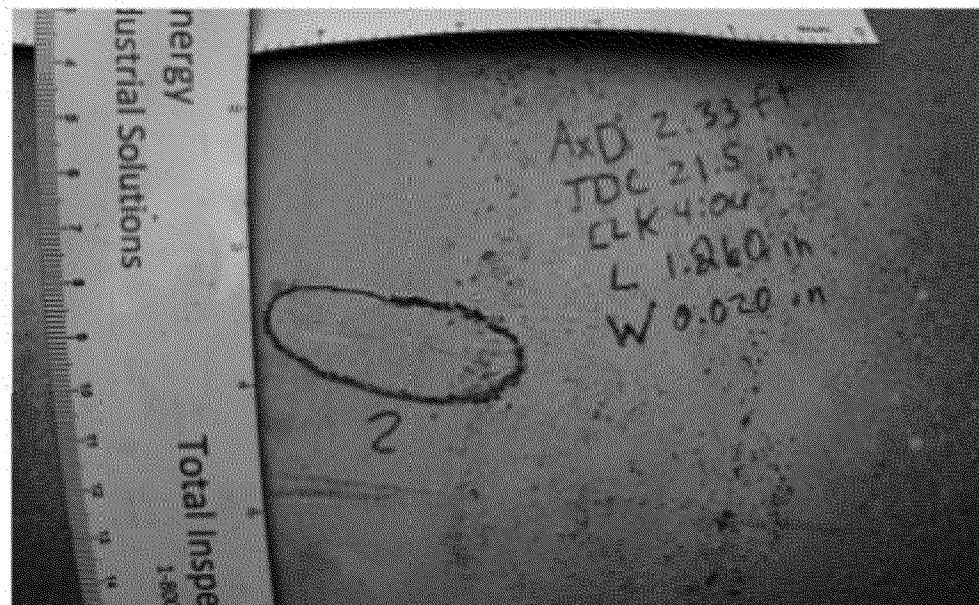


Removed pipe section linear indication-01

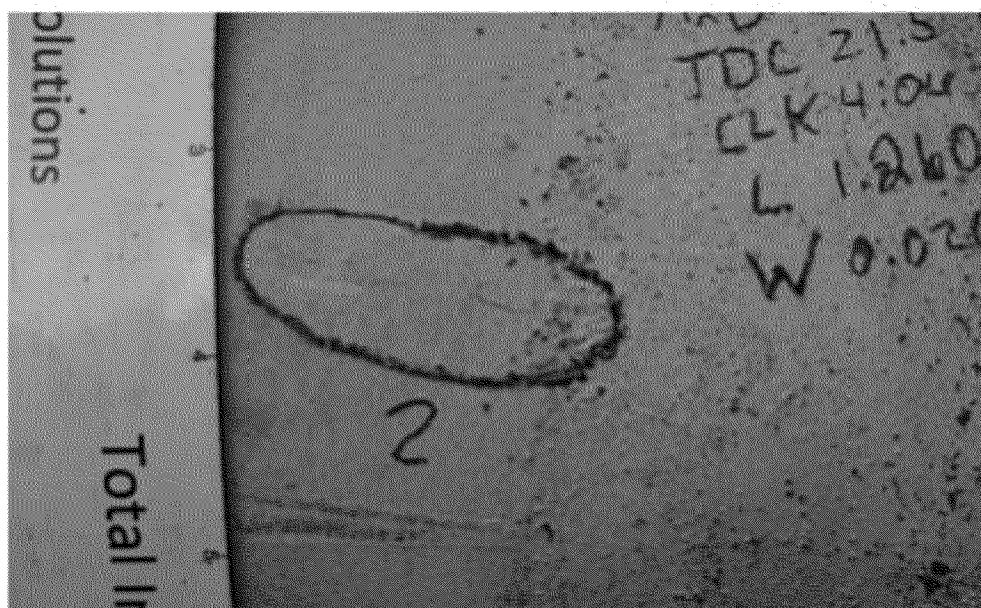




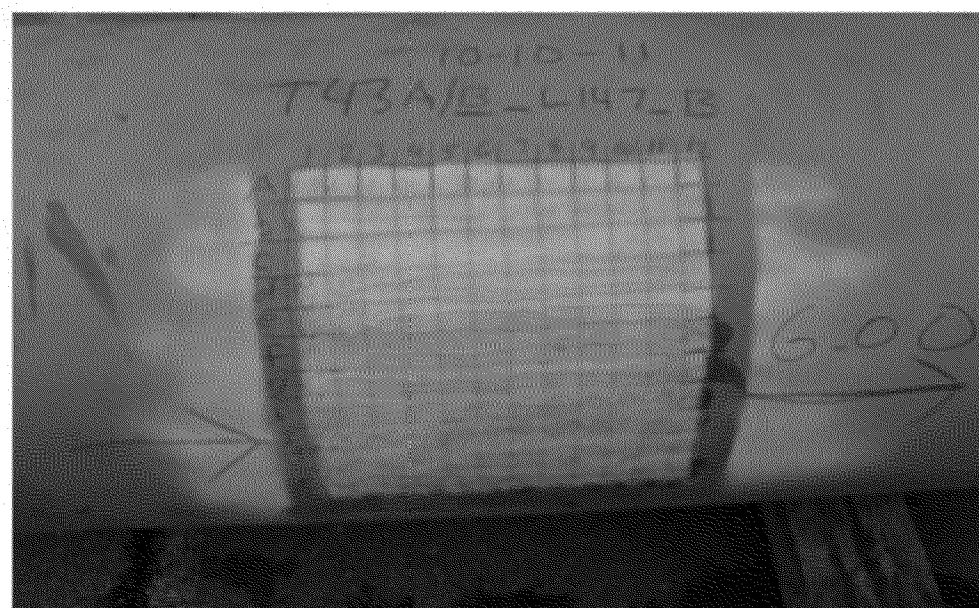
Close-up of MT Indications of LIN-01



Removed pipe section linear indication-02

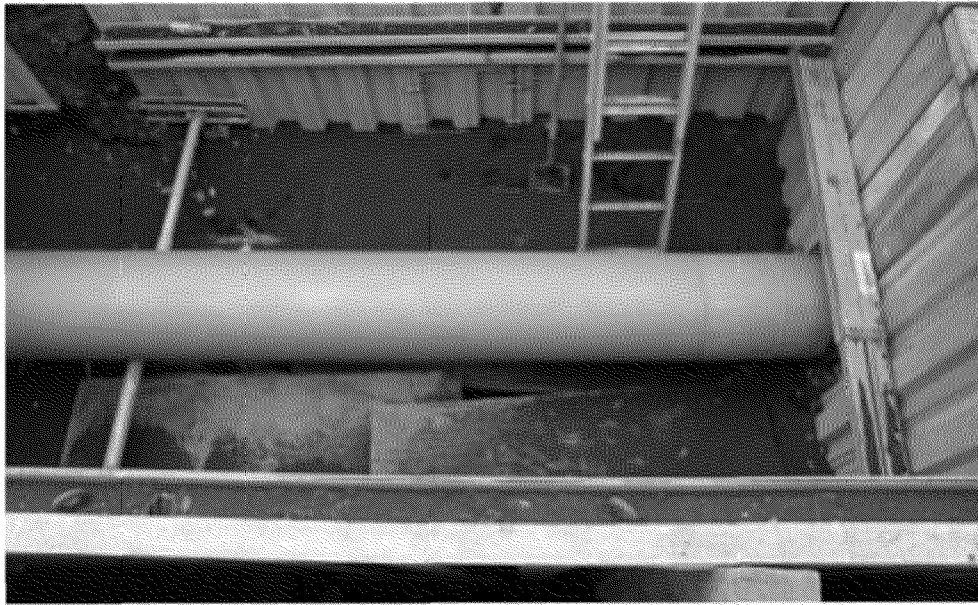


Close-up of MT Indications of LIN-02

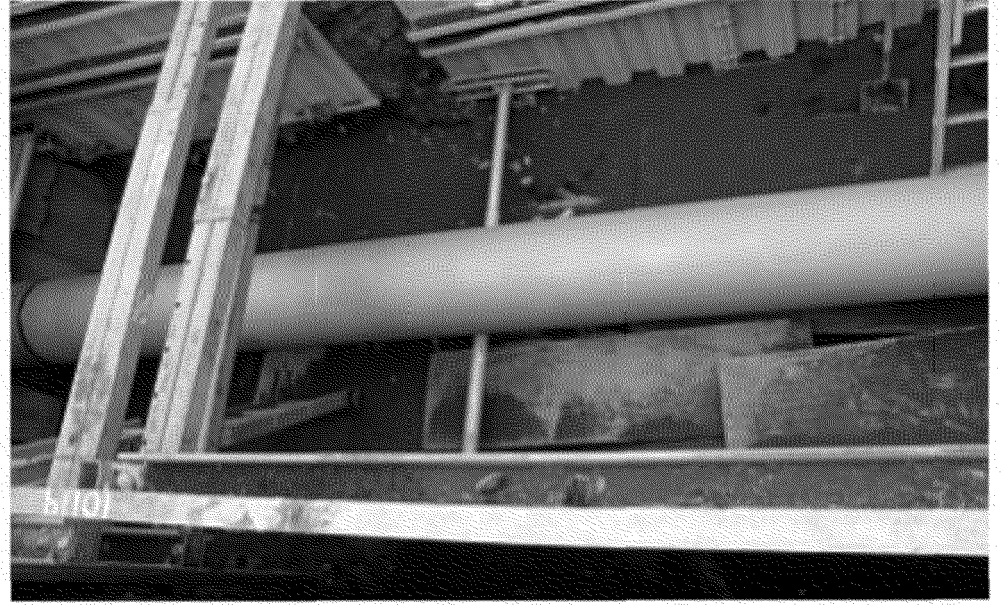


Overview of UT Grid

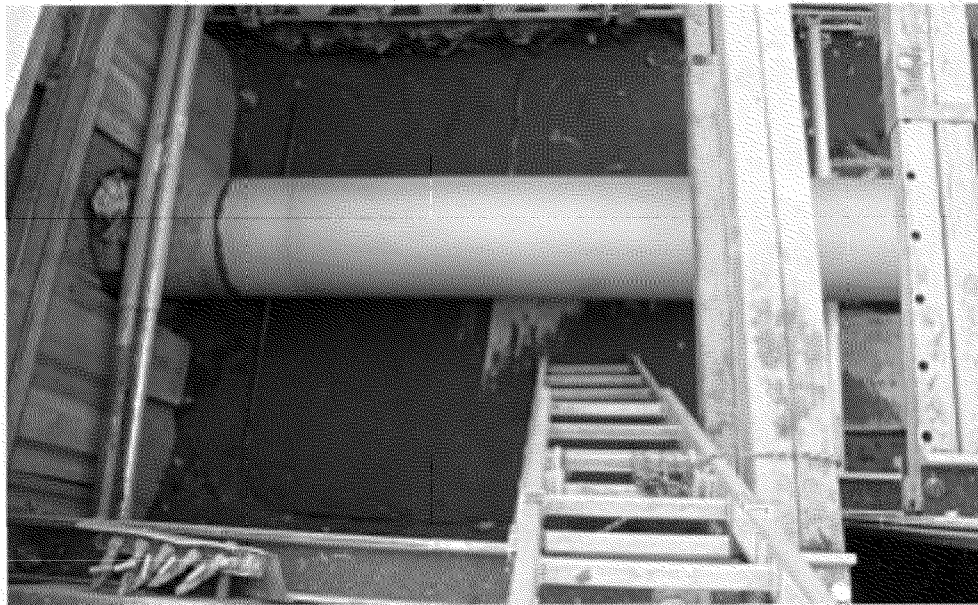




Overview of clean blasted inspection area prior to recoat activities



Overview of clean blasted inspection area prior to recoat activities



Overview of clean blasted inspection area prior to recoat activities

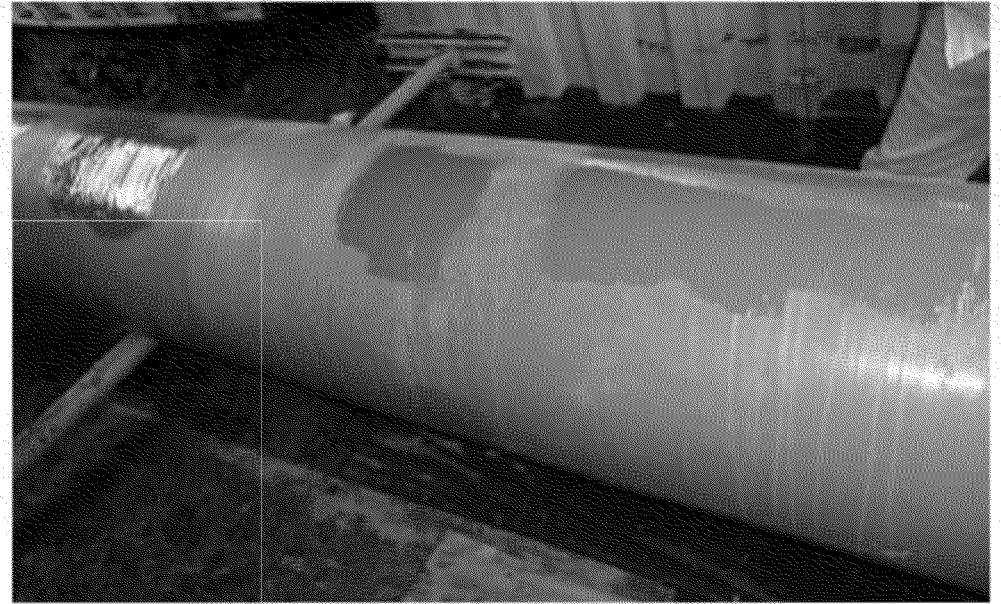


Overview of final coating condition US 300





Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition US 3:00

