

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: Redacted	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 Ditch Start GPS Coordinates (Uncorrected Field Measurement) _____ PDOP: NA
 Northing: Redacted _____ Acc--: NA
 Easting: _____
 Centerline GPS Coordinates (Uncorrected Field Measurement) _____ PDOP: NA
 Northing: NA _____ Acc--: NA
 Easting: NA _____
 D/S Ditch End GPS Coordinates (Uncorrected Field Measurement) _____ PDOP: NA
 Northing: Redacted _____ Acc--: NA
 Easting: _____

Planned Excavation Length (Ft.): NA
 Actual Excavation Length (Ft.): 21.0ft
 GPS File Name: Redacted

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

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.

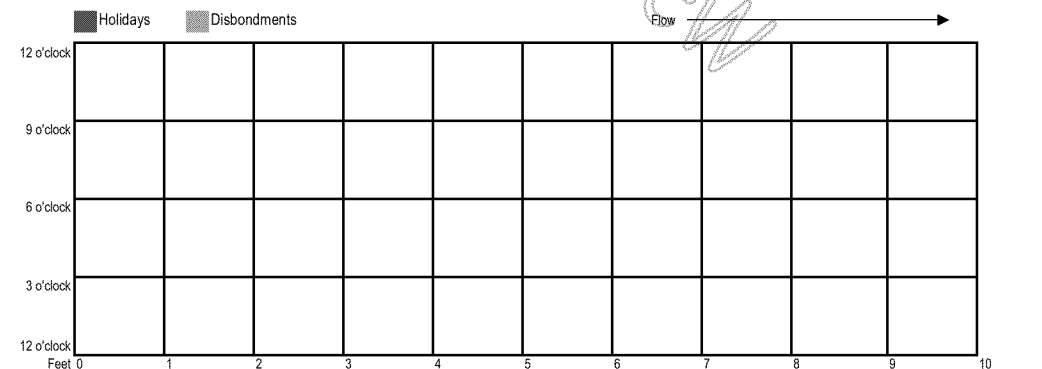
1.5 Soil Resistivity in Ditch (0-cm):
 Method: 4-Pin 24469.5 ohm/cm Soil Box NA
 Comments: NA SRM-100 US: 131.5KΩ/cm DS: 6.1 KΩ/cm

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

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

1.9 Map of Coating Degradation*: Zero Reference Point:



CaCO3	- Calcareous deposits containing calcium
FeO	- General iron oxide with scale
FeCO3	- Calcareous deposits containing iron

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

DA/ILI
 Route Number: L-147
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 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
 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"

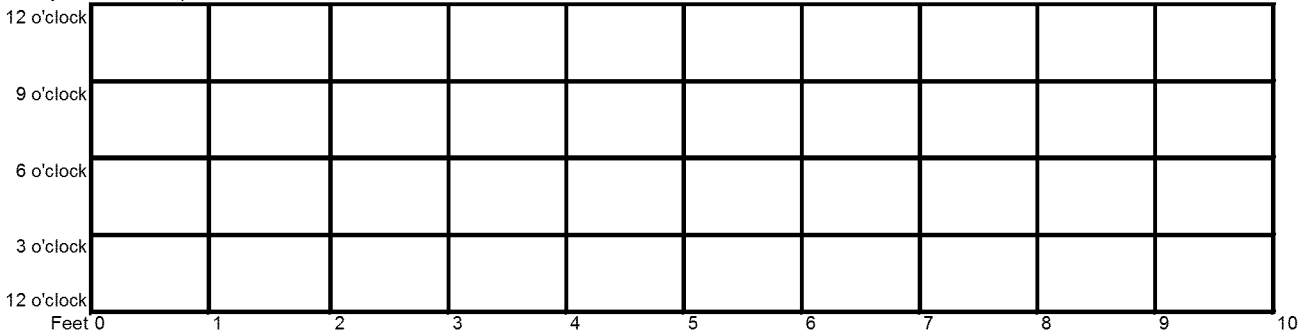
UT Wall Thickness Grid @ 6:00 is required. Be sure to attach grid to H-Form electronically. See page 6 of 10.

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

*Note any calcareous deposits.



EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

DA/ILI
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 PG&E Project Manager: Redacted
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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																						

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
 Approved By: NA
 Order Number: NA

DA
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 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>NA</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

1 of 1

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

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 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
 RMP-11 Ref. Section: Table 5.6.2
 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				From: Redacted		Date: 10/7/2011			
Project: T43A/B_L147_B				Redacted					
Purchase Order No:				GEIS Job No: LAPI0015					
Item	Weld	Structural	Casting	Machinery	Mach. Parts	Pipe	N/A	Other:	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	N/A	
Material	Non-Weld	Plate	Pipe	Bar	Casting	Mach. Parts	N/A	Other:	
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	
Location	Size	Material Thickness	Type of Base Material		Type of Filler Material		Weld	<input checked="" type="checkbox"/> N/A	
	20"	0.250"	Carbon Steel		C/S Smooth		<input type="checkbox"/> Smooth	<input type="checkbox"/> As Welded	
Acceptance Standards	Customer Specifications				Procedure: GEIS QCP # 500 Rev 15				
Type of Check	Initial	Plate Edge	In Process	Back Gouge	Root Pass	Repair	12 Hour	24 Hour	Final
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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				
MT Yoke & Model - Serial No. / Blacklight Model - Serial No.				Surface Preparation Method					
Parker DA-400 - S# 18830 / Spectroline BIP - S# 1597251				Abrasive Blasting (Kleen Blast) - NACE 2 Finish					
Inspection Medium / Color / Batch No.				Demagnetization Method / Equipment					
Magnaglo 14A / Flourescent Green / 09M12K				N/A					
Reference: Summary				<input checked="" type="checkbox"/> See Attachment		Results of Inspection			
The following areas were requested to be inspected:									
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.						- No relevant indications found @ time of insp.			
Removed pipe section.						2 Linear indications were found.			
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: Redacted			
				<input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject					

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.



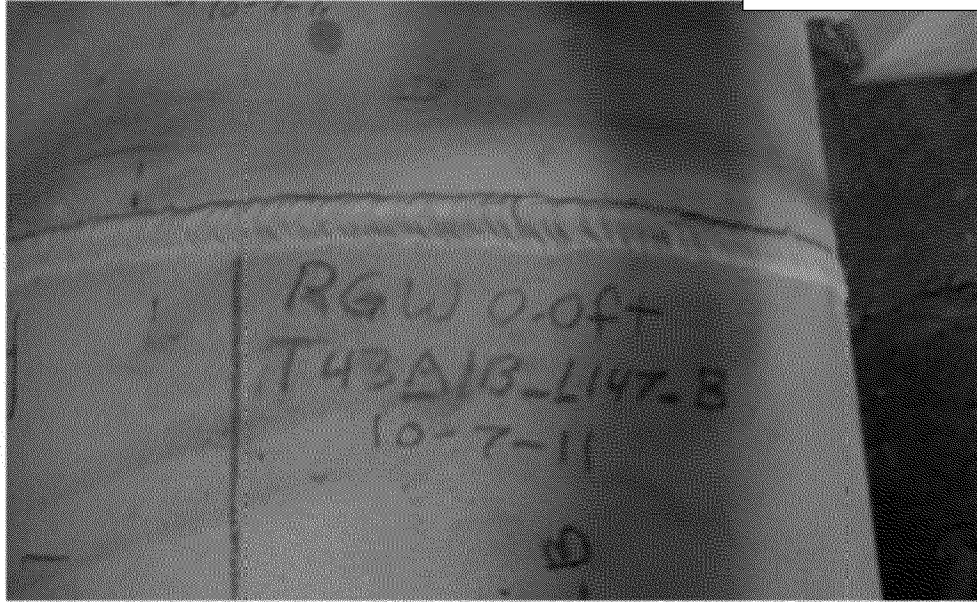
GE Energy
Inspection & Life Extension Services

ULTRASONIC EXAMINATION REPORT						<input type="checkbox"/> Nuclear	<input checked="" type="checkbox"/> Non-Nuclear	
To: Pacific Gas & Electric Company				From: Redacted		Date: 10/7/2011		
Project: T43A/B_L147_B 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:
	Non-Weld <input checked="" 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 <input type="checkbox"/>	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	Soundness <input checked="" type="checkbox"/>	Thickness <input checked="" type="checkbox"/>	Bond <input type="checkbox"/>	Transducer		Transducer Serial No.:		
	Pulse Echo <input checked="" type="checkbox"/>	Angle-Beam <input type="checkbox"/>	Other <input type="checkbox"/>	<input checked="" type="checkbox"/> Single Crystal	<input type="checkbox"/> Dual Crystal	020HFC		
	UT Equipment/Model			Frequency	Size	Angle	Couplant / Batch #	
	USN-60			5 MHz	0.375"	0°	Sonatest Ultragel II	
	Serial # 01NLKN			Flat <input checked="" type="checkbox"/>	Concave <input type="checkbox"/>	Convex <input type="checkbox"/>	/ 25-901 07225 AF	
	Calibration Date: 10/5/2011			Standard	Material	Notch Depth	Serial No.:	
Calibration Due: 1/5/2012			Step Wedge <input checked="" type="checkbox"/>	Material	Thickness Range	Serial No.:		
			Tube Wedge <input type="checkbox"/>	C/S	0.200" - 0.500"	V34693		
Reference: Summary <input checked="" type="checkbox"/> See Attachment				Results of Inspection:				
The following areas were requested to be inspected:				- No relevant indications @ time of inspection.				
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.								
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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 IT IS SUBJECT TO THE LIMITATIONS OF THE TESTING SPECIFICATIONS AND PROCEDURES WHICH WERE UTILIZED. BY FURNISHING
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Overview of Reference Girth Weld measurements were taken from.



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



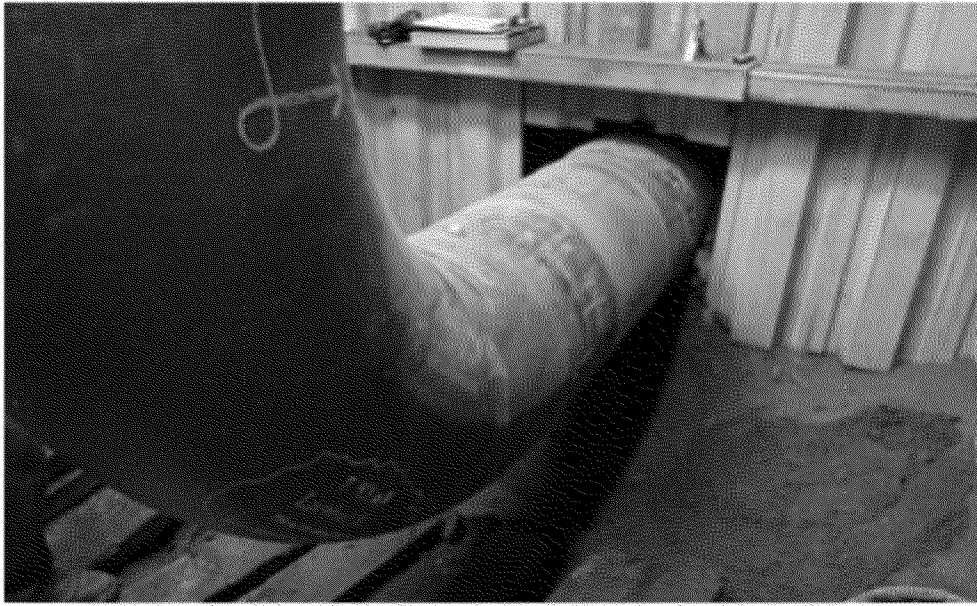
Overview of coating condition -1ft to 2ft, 3:00 position



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



Redacted



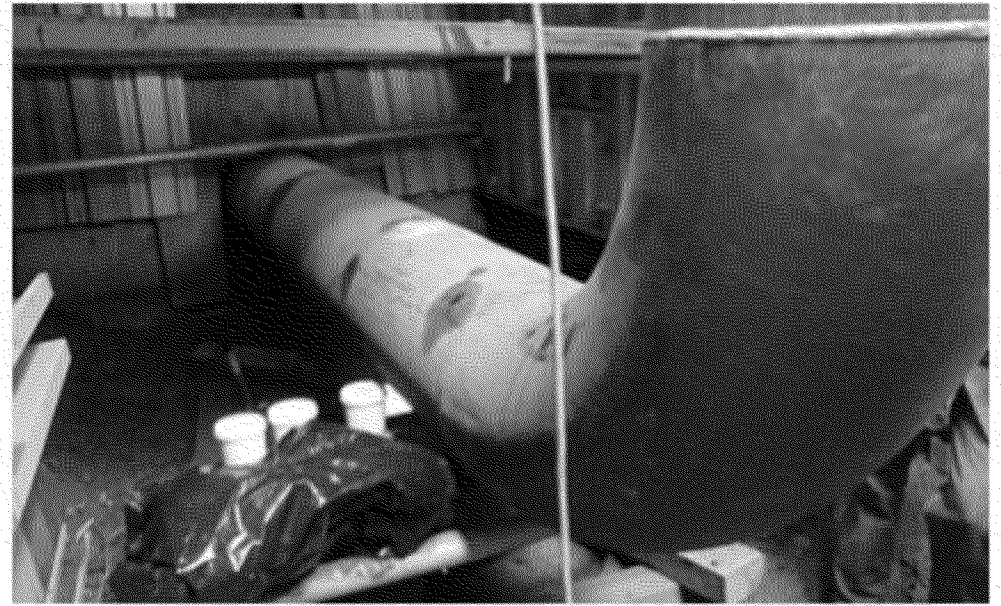
Overview of coating condition -1ft to 2ft, 9:00 position



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, 900 position



Overview of MPI layout -1ft to 2ft, 300 position

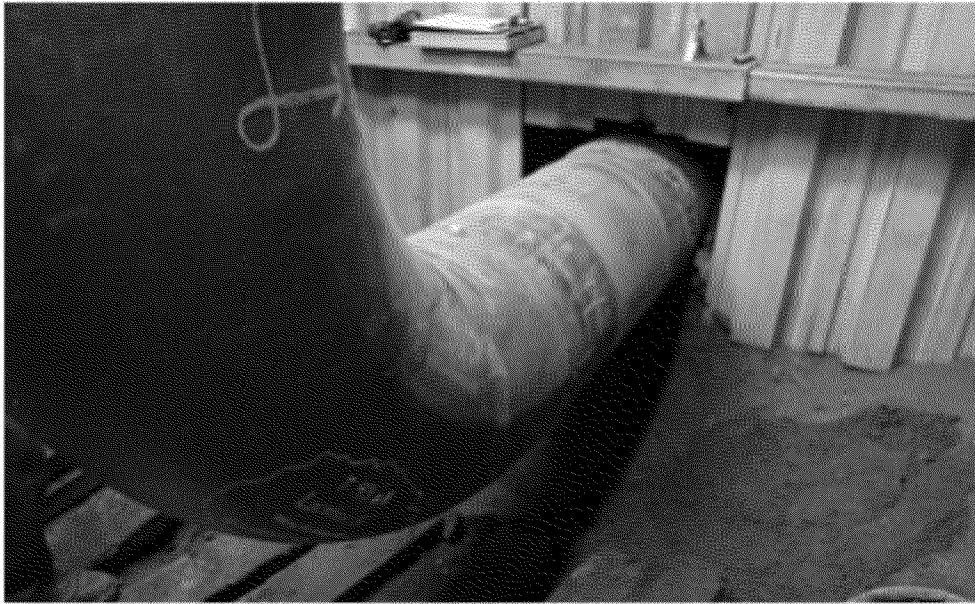


Overview of MPI layout -1ft to 2ft, 300 position



Overview of MPI layout -1ft to 2ft, 900 position





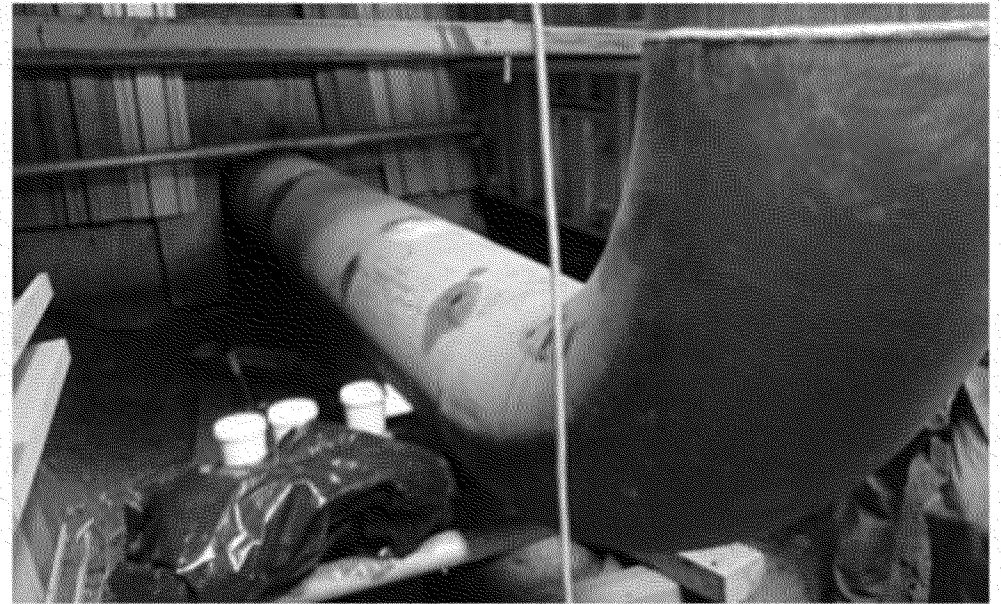
Overview of MPI layout -1ft to 2ft, 9:00 position



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



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

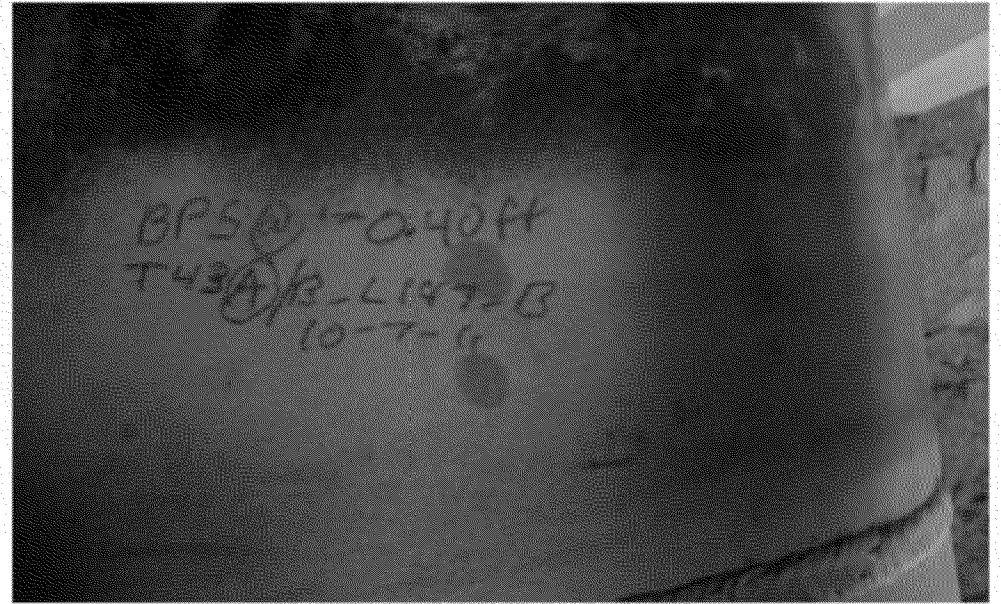


Overview of MPI layout 17ft to 20ft, 9:00 position

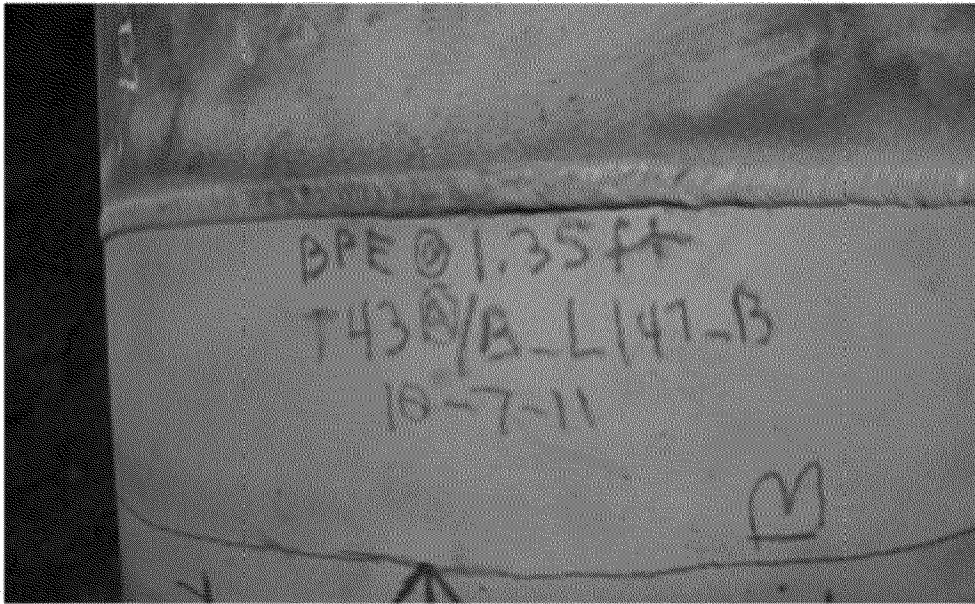




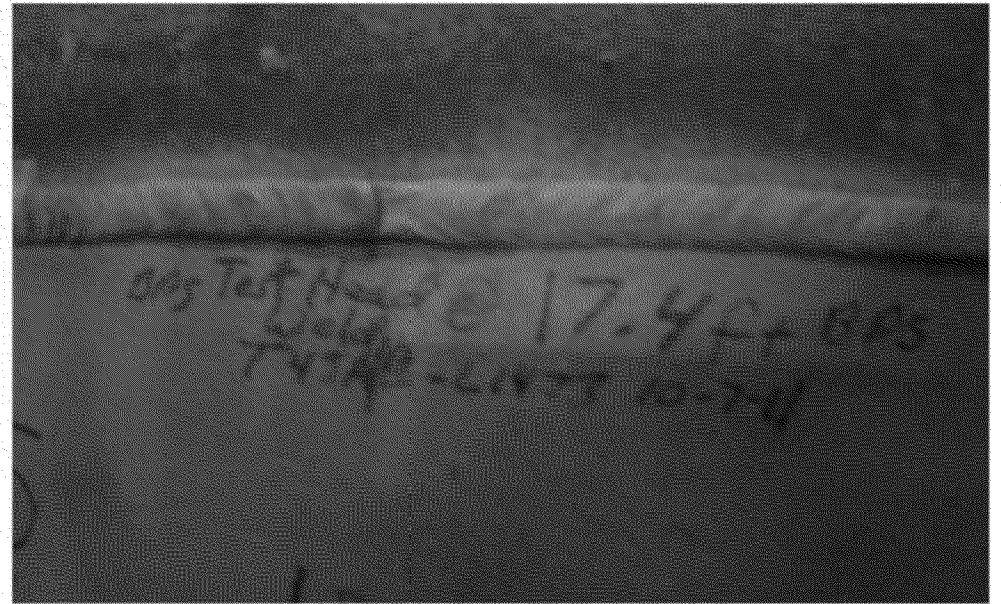
Overview of MPI layout 17ft to 20ft, 900 position



Overview of bare pipe start



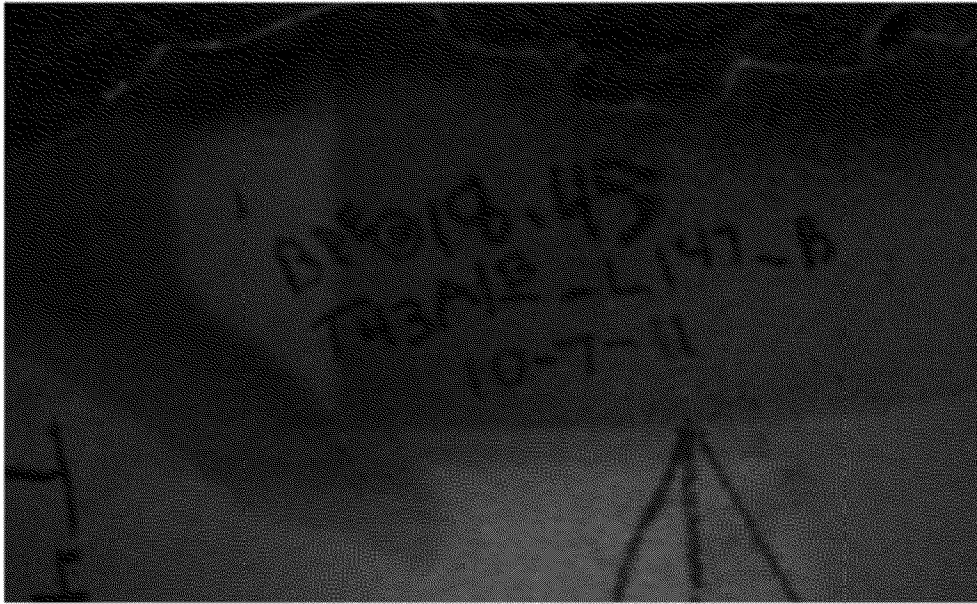
Overview of bare pipe end



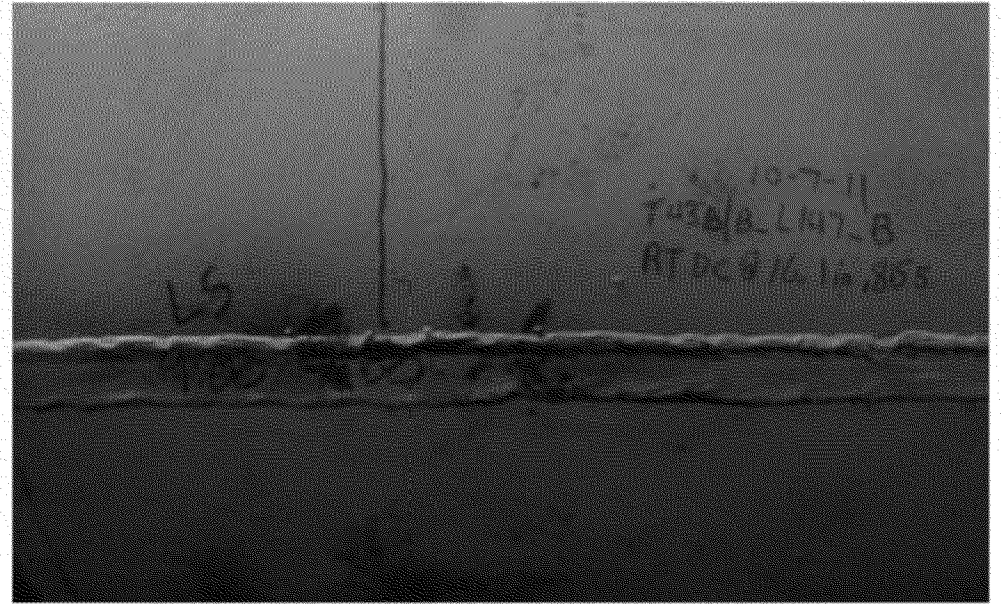
Overview of bare pipe start



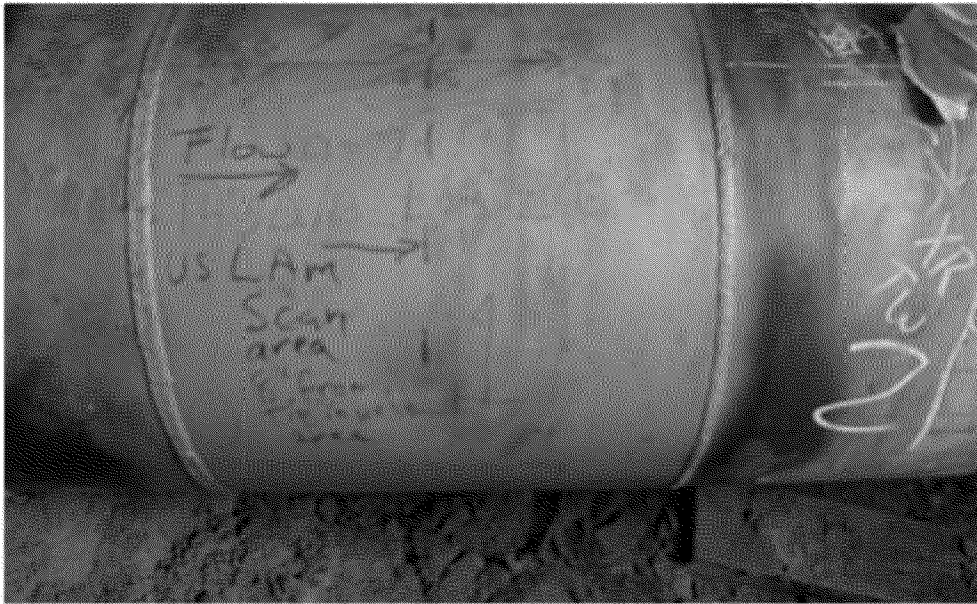
Redacted



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 MPIOK and Lamination scan OK.



Overview DS of MPIOK and Lamination scan OK.



Overview of pipe Ph.



Closeup of pipe Ph.





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



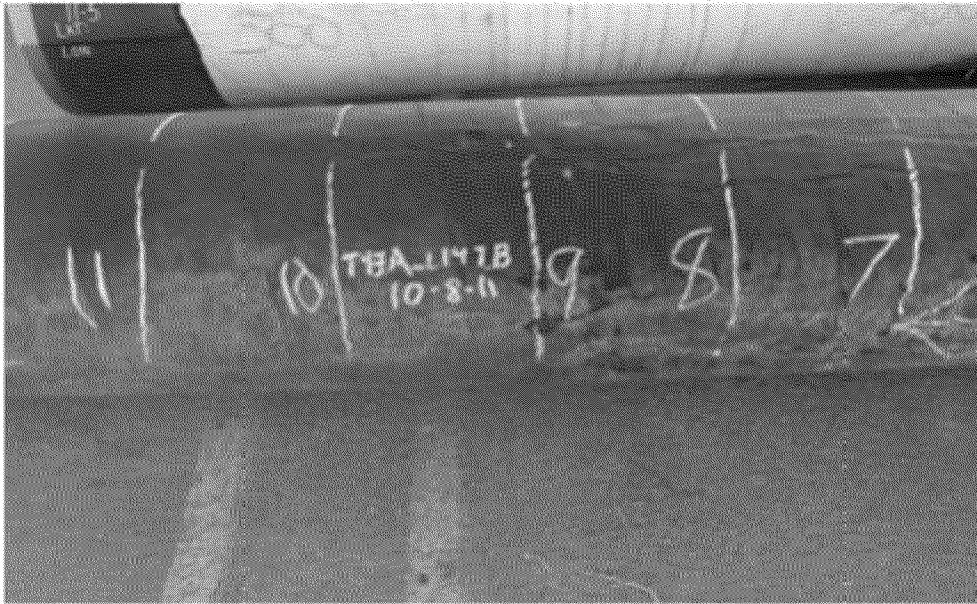
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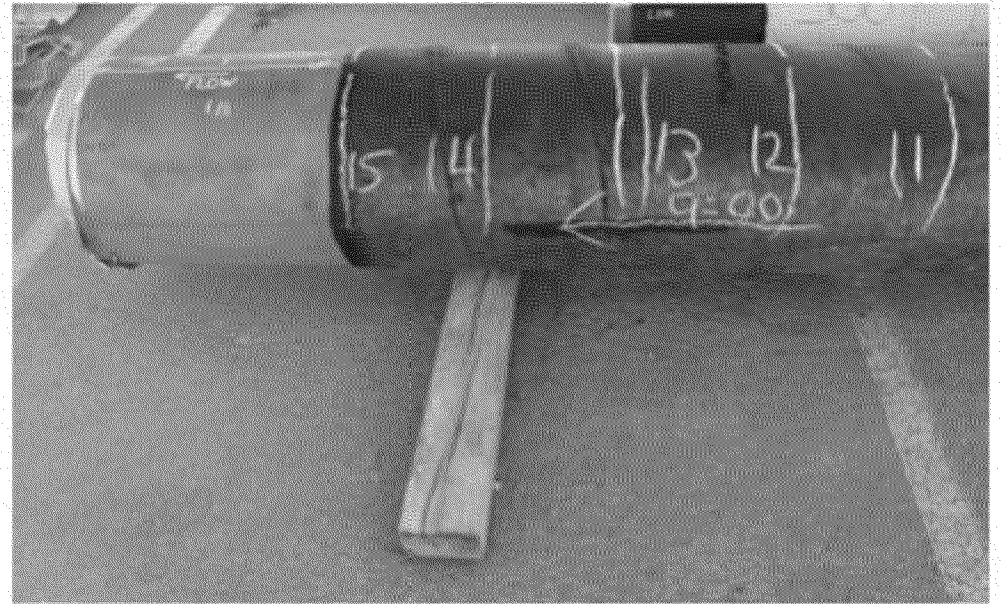
Removed pipe section coating assesment 9:00



Overview of coating condition 9:00 position



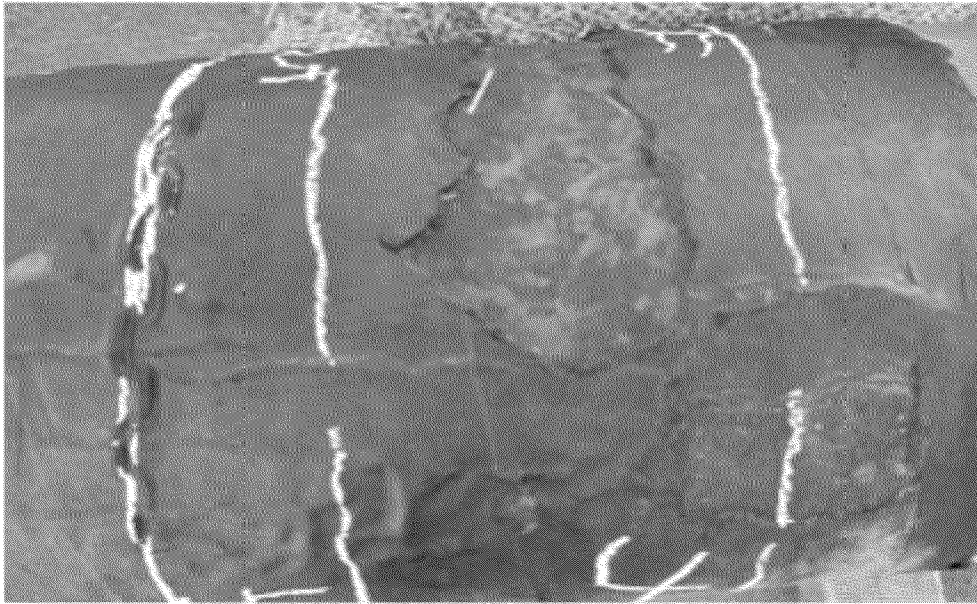
Overview of coating condition 9:00 position



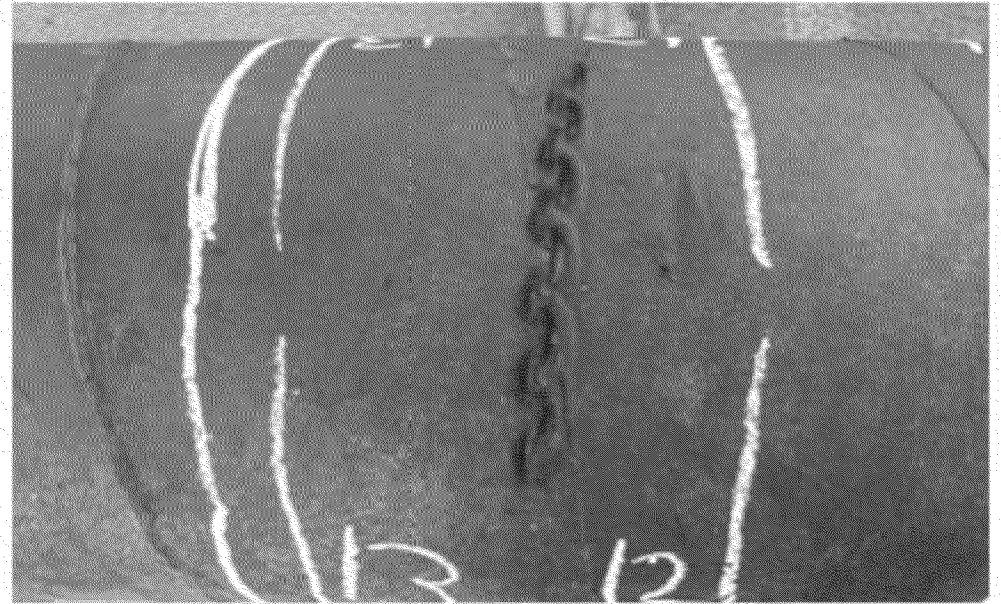
Overview of coating condition 9:00 position



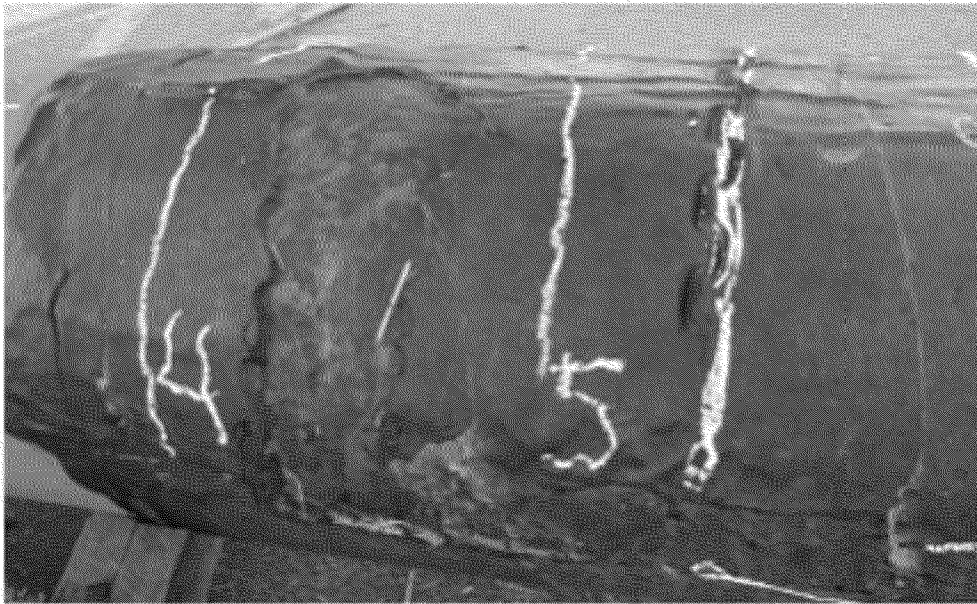
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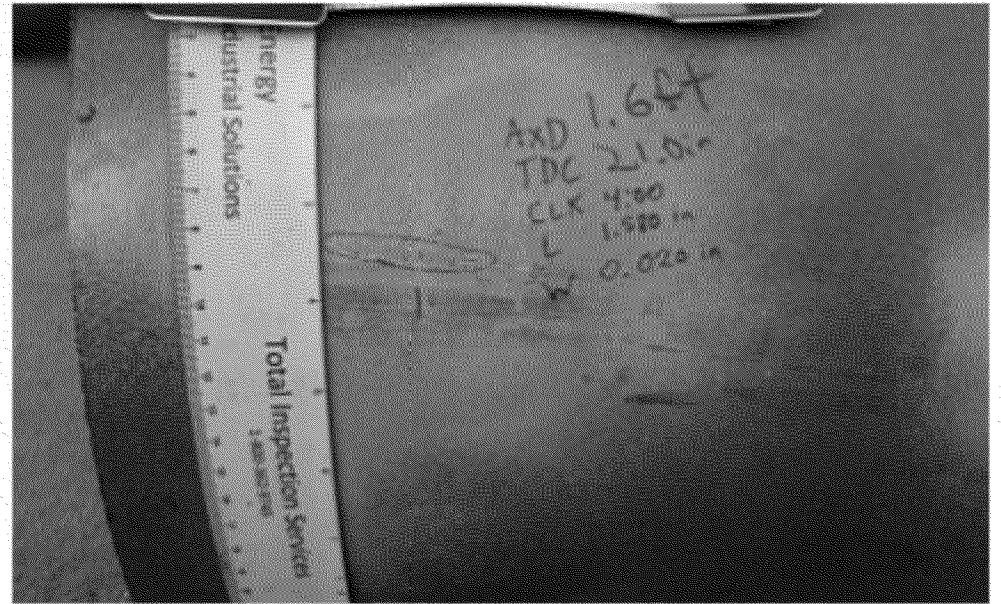
Coating damaged from removal process.



Coating damaged from removal process.

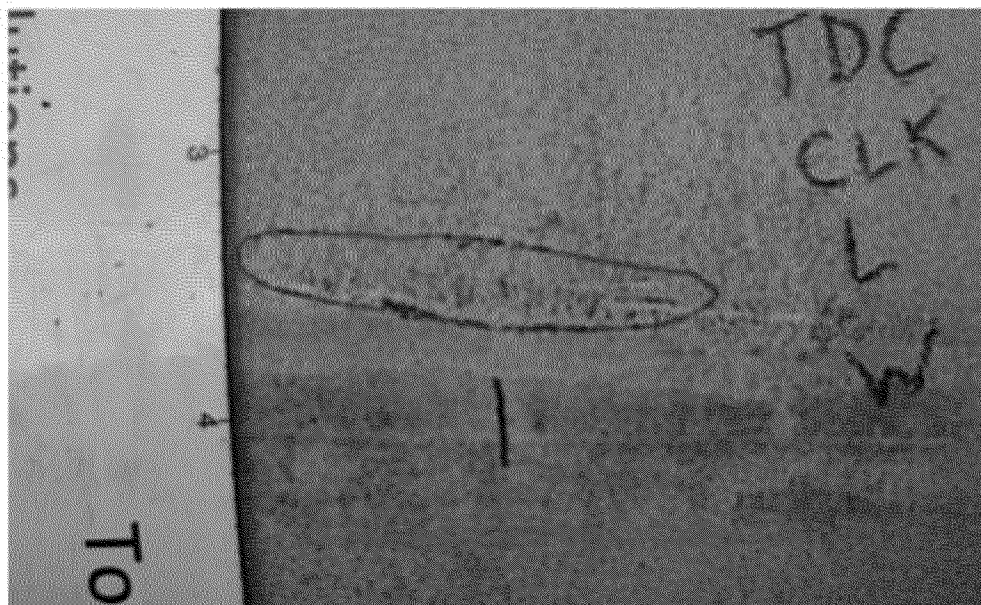


Coating damaged from removal process.

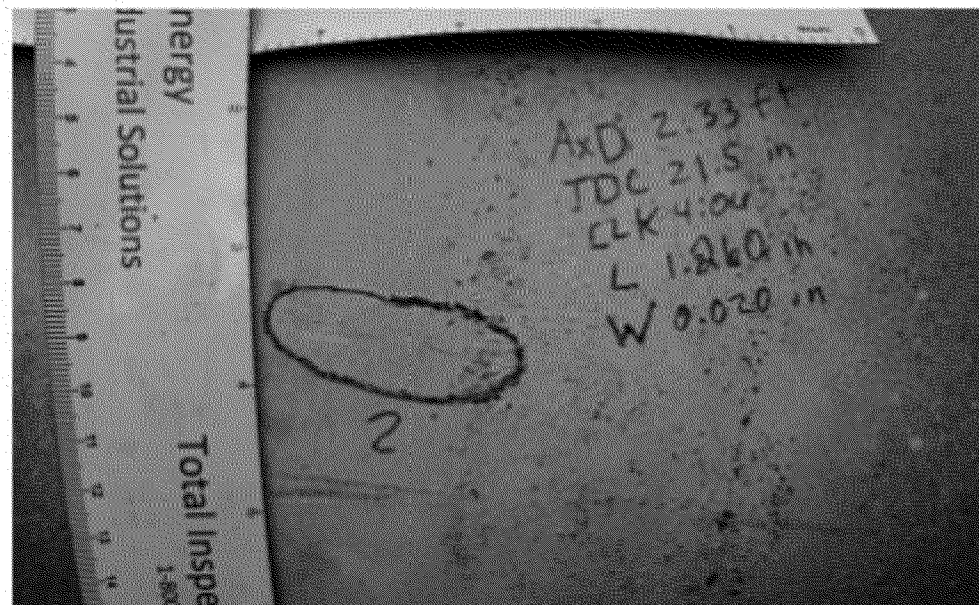


Removed pipe section linear indication-01.

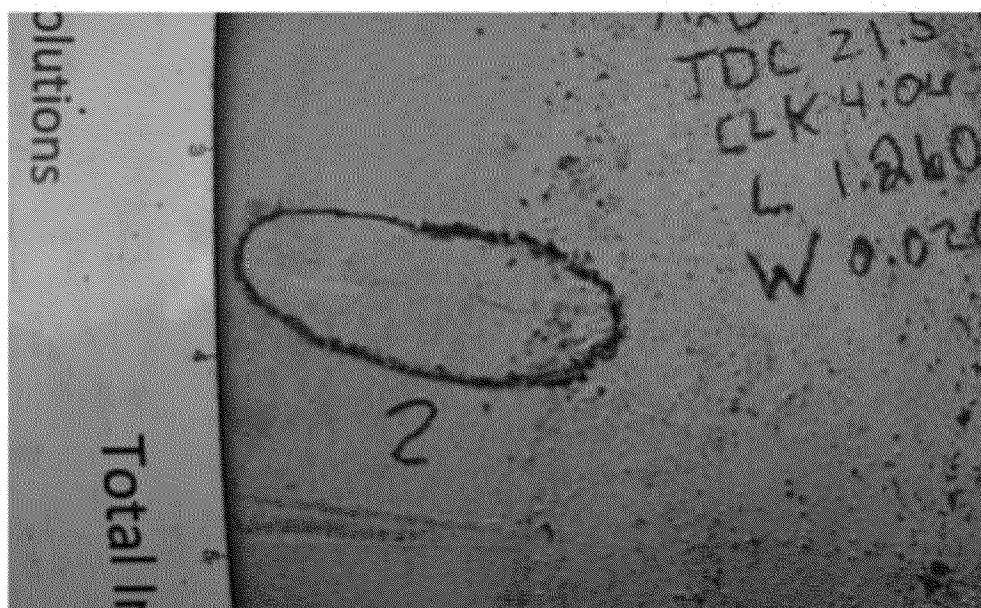




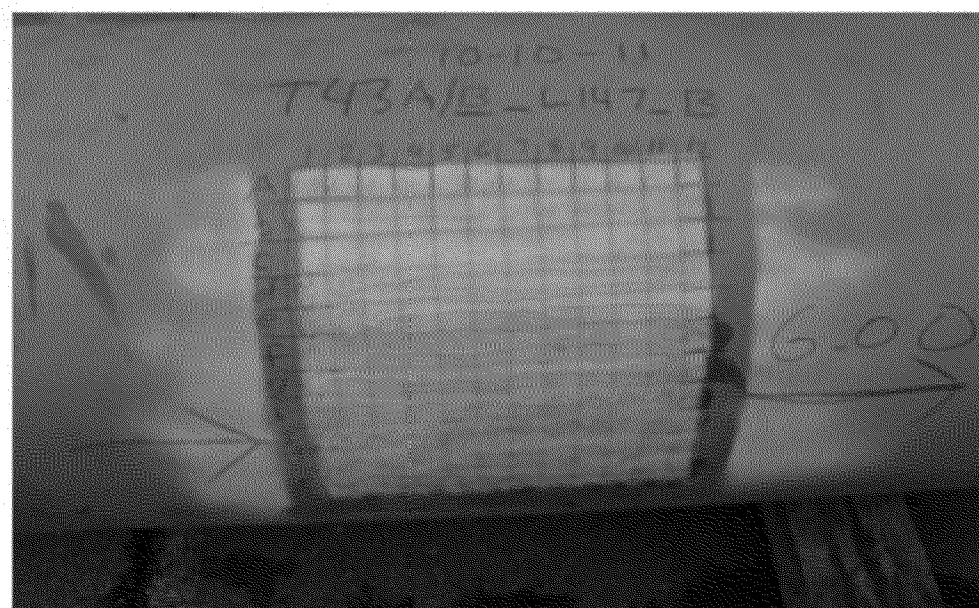
Close-up of MT Indications of LIN-01



Removed pipe section linear indication-02

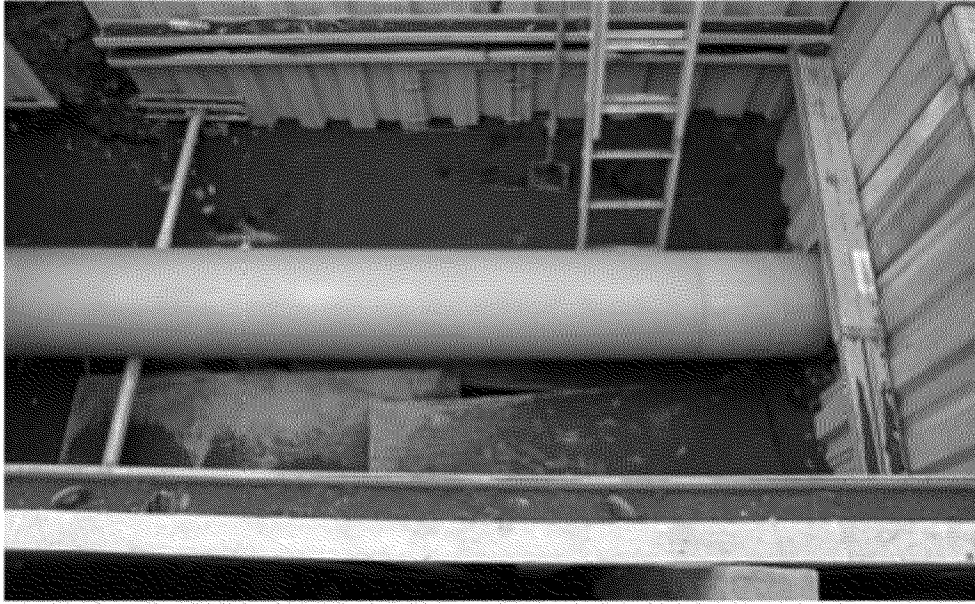


Close-up of MT Indications of LIN-02

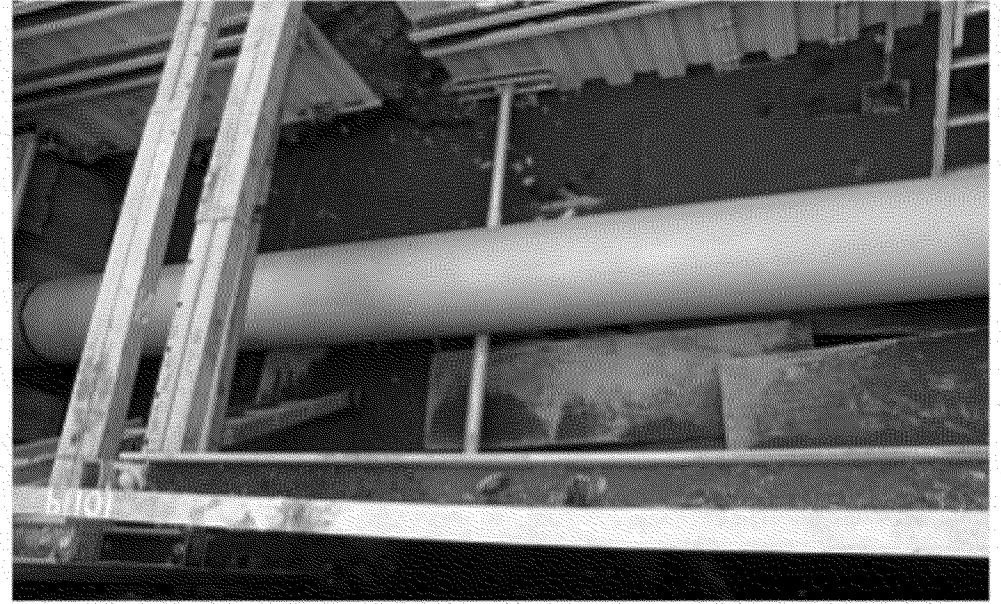


Overview of UT Grid

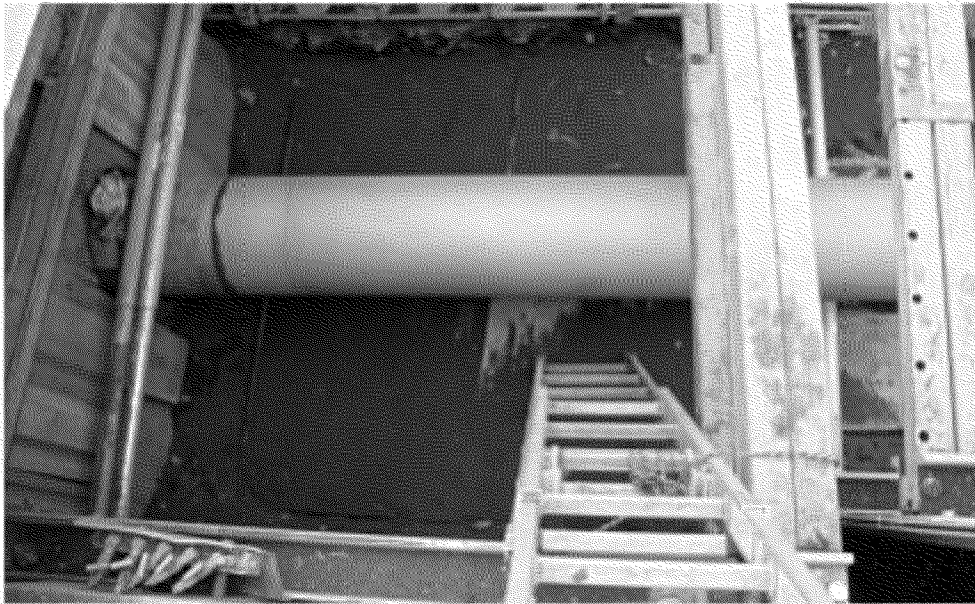




Overview of clean blasted inspection area prior to recoat activities



Overview of clean blasted inspection area prior to recoat activities



Overview of clean blasted inspection area prior to recoat activities



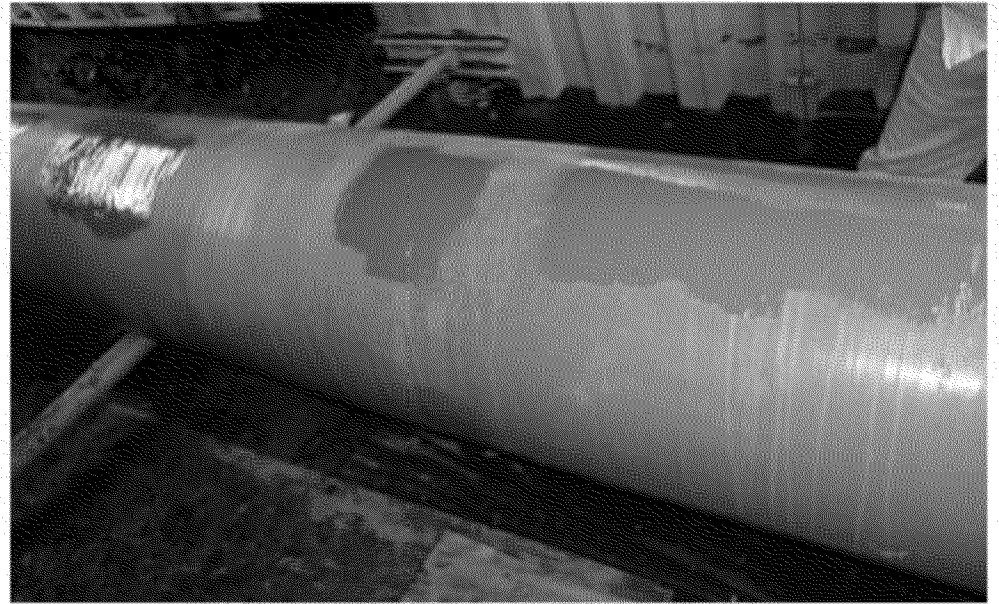
Overview of final coating condition US 300



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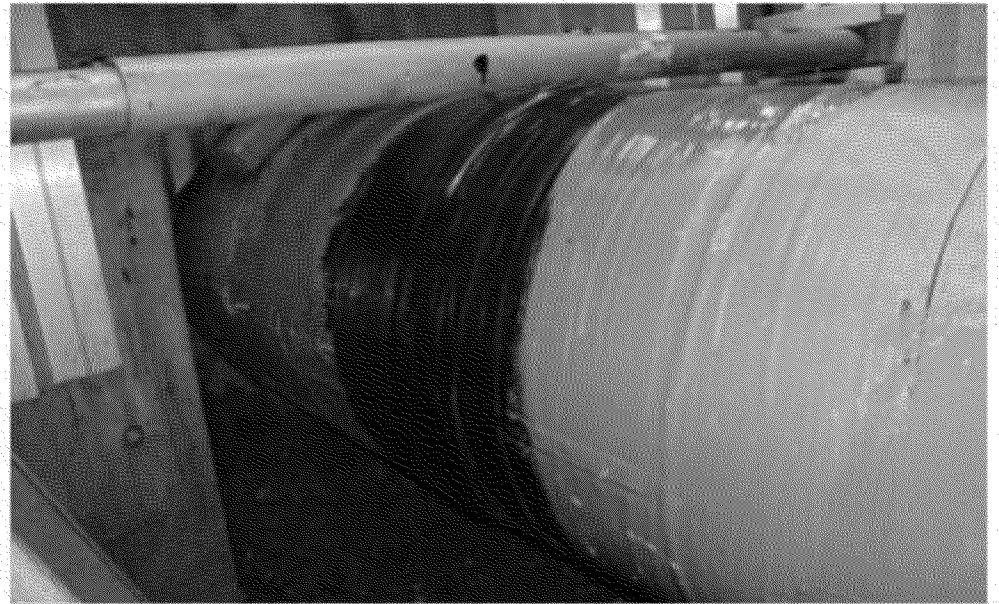
Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition US 3:00

