

**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**

**Documents Contained Within:**

H-Form Report T43A/B\_L147\_B

NDE Reports of T43A/B\_L147\_B

Photo Report of T43A/B\_L147\_B

---

---

Author

Date: December 2, 2011



<b>DA/ILI</b>	<b>DA</b>	<b>ILI</b>
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 Ditch Start GPS Coordinates (Uncorrected Field Measurement) \_\_\_\_\_

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

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

Centerline GPS Coordinates (Uncorrected Field Measurement) \_\_\_\_\_

Northing: NA PDOP: NA GPS File Name: Redacted

Easting: NA Acc-: NA

Ditch End GPS Coordinates (Uncorrected Field Measurement) \_\_\_\_\_

Northing: Redacted PDOP: NA

Easting: \_\_\_\_\_ 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

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

SRM-100 US: 131.5KΩ/cm DS: 6.1 KΩ/cm

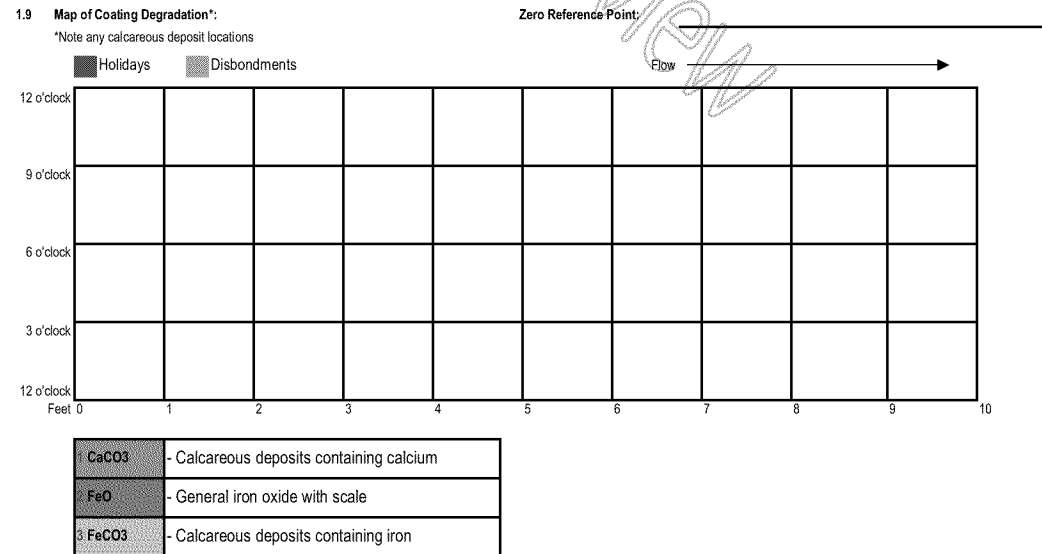
1.6 Soil Sample Location: Ditch end (DS) 6:00 position under pipe.

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.



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"

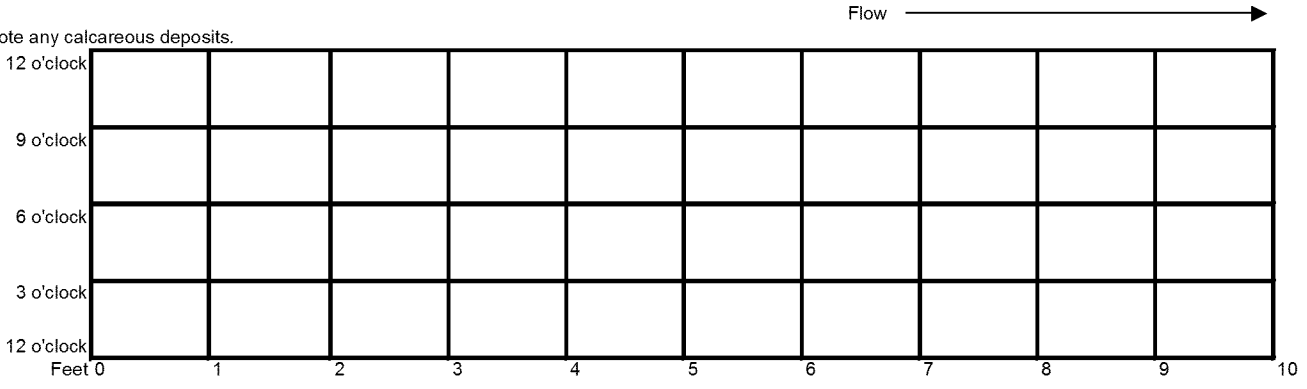
UT Wall Thickness Grid @ 6:00 is required. Be sure to attach grid to H-Form electronically. See page 6 of 10.

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

\*Note any calcareous deposits.



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

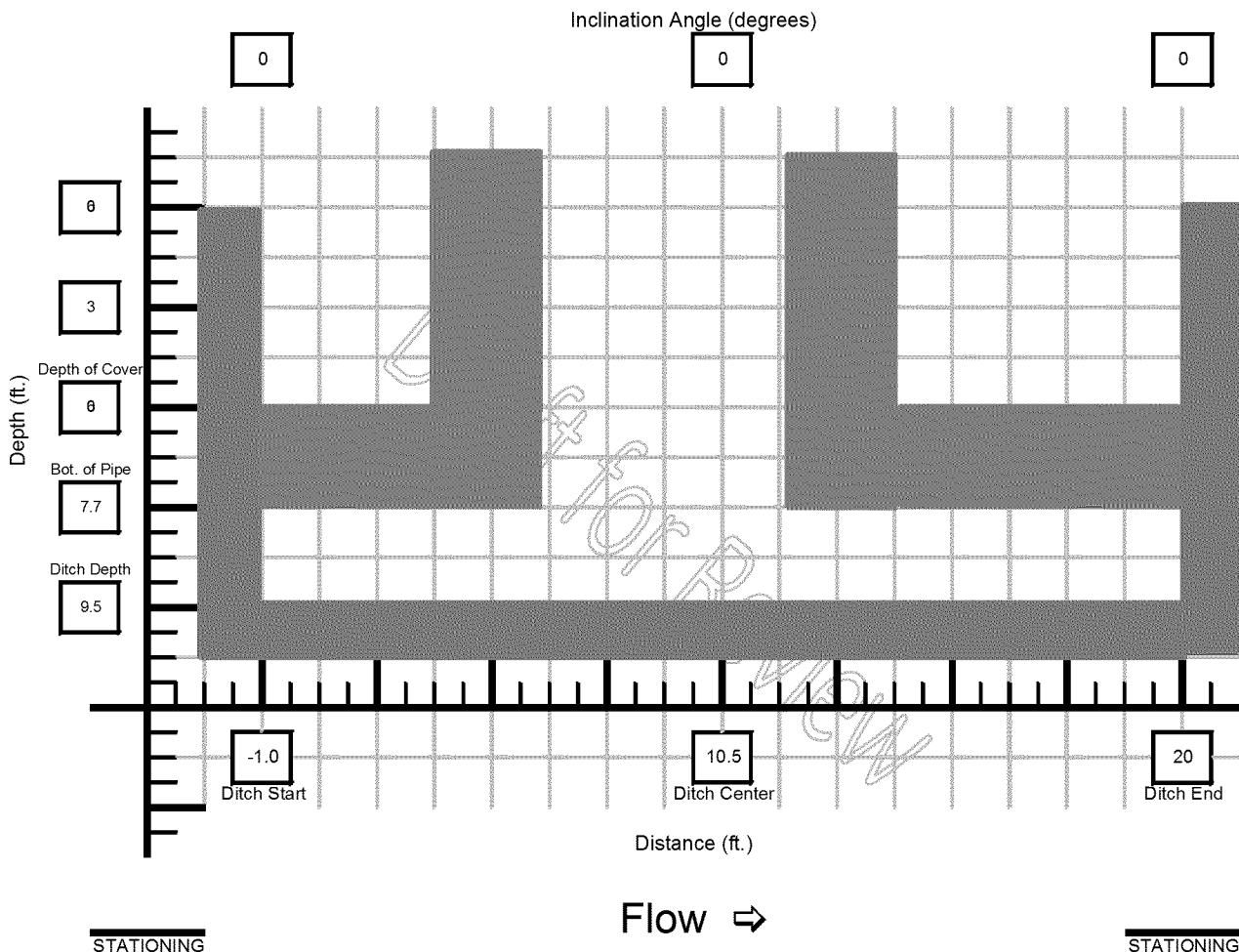
DA/ILI  
 Route Number: L-147  
 Date of Excavation: 10/7/2011  
 Mile Point: Redacted  
 Examination Performed By: \_\_\_\_\_  
 PG&E Project Manager: \_\_\_\_\_  
 Approved By: NA  
 Order Number: NA

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

**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  
 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

	.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 1 OF 2






This report is strictly confidential, legally privileged, containing G.E. Intellectual Property, & is intended for G.E. clients and representatives only. Distribution to G.E. competitors is strictly prohibited.

EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

**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  
 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 2 OF 2

This report is strictly confidential, legally privileged, containing G.E. Intellectual Property, & is intended for G.E. clients and representatives only. Distribution to G.E. competitors is strictly prohibited.

INTERNAL CORROSION WALL LOSS GRID

<p><b>DA/ILI</b></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&amp;E Project Manager: <u>Redacted</u></p> <p>Approved By: <u>NA</u></p> <p>Order Number: <u>NA</u></p>	<p><b>DA</b></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><b>ILI</b></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>
--	--	---

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

**COATING DAMAGE**

<u>DA/ILI</u>	<u>DA</u>	<u>ILI</u>
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:		Distance From Girth Weld: NA
PG&E Project Manager:	Region Number: NA	
Approved By: NA	Subregion # (ICDA): NA	
Order Number: NA	Stationing: NA	

NO.	FEET FROM REFERENCE	O'CLOCK	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
NA	NA	NA	NA	NA

Draft for Review

This report is strictly confidential, legally privileged, containing GE Intellectual Property, & is intended for GE clients and representatives only. Distribution to GE competitors is strictly prohibited.



**CORROSION LOG**

<b>DA/ILI</b>		<b>DA</b>		<b>ILI</b>	
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		NA	Distance From Girth Weld:	NA
PG&E Project Manager:	Redacted	Region Number:	NA		
Approved By:	NA	Subregion # (ICDA):	NA		
Order Number:	NA	Stationing:	NA		

IC or EC	FEET FROM REFERENCE	O'CLOCK	MAX PIT DEPTH (MILS)	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
NA	NA	NA	NA	NA	NA

Draft for Review

This report is strictly confidential, legally privileged, containing G&E Intellectual Property, & is intended for G&E clients and representatives only. Distribution to G&E competitors is strictly forbidden.



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

<b>MAGNETIC PARTICLE EXAMINATION REPORT</b>							<input type="checkbox"/> Nuclear	<input checked="" type="checkbox"/> Non-Nuclear	
To: <b>Pacific Gas &amp; Electric Company</b>				From: <b>Redacted</b>		Date: <b>10/7/2011</b>			
Project: <b>T43A/B_L147_B</b> <b>Redacted</b>									
Purchase Order No:				GEIS Job No: <b>LAPI0015</b>					
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"/>	<b>N/A</b>	
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"/>	<b>N/A</b>	
Material	Size <b>20"</b>	Material Thickness <b>0.250"</b>	Type of Base Material <b>Carbon Steel</b>		Type of Filler Material <b>C/S</b> Smooth		Weld	<input checked="" type="checkbox"/> N/A	
Location	<b>Redacted</b>				system <b>L-147</b>				
Acceptance Standards	<b>Customer Specifications</b>				Procedure <b>GEIS QCP # 500 Rev 15</b>				
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				
	<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. <b>Parker DA-400 - S# 18830 / Spectroline BIP - S# 1597251</b>					Surface Preparation Method <b>Abrasive Blasting (Kleen Blast) - NACE 2 Finish</b>				
Inspection Medium / Color / Batch No. <b>Magnaglo 14A / Flourescent Green / 09M12K</b>					Demagnetization Method / Equipment <b>N/A</b>				
Reference: Summary <input checked="" type="checkbox"/> See Attachment						Results of Inspection			
<b>The following areas were requested to be inspected:</b>						- 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.									
<b>Summary:</b>									
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 &amp; Electric Company</i> <i>GE Inspection Services (Los Angeles)</i>				Requested By: <b>Redacted</b>			Reported By (Technician): <b>Redacted</b>		
				<input checked="" type="checkbox"/> Customer Specifications			NDT supervisor: <b>Redacted</b>		
				<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: <b>Pacific Gas &amp; Electric Company</b>						From: <b>Redacted</b>		Date: <b>10/7/2011</b>		
Project: <b>T43A/B_L147_B Redacted</b>										
Purchase Order No:					GEIS Job No: <b>LAPI0015</b>					
<b>Item</b>	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:		
<b>Material</b>	Size: <b>20"</b>		No. of Pieces: <b>1</b>		Type of Base Metal: <b>Carbon Steel</b>		Type of Filler Material: <b>C/S</b>		Weld <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Smooth <input type="checkbox"/> As Welded	
<b>Location</b>	<b>Redacted</b>						System: <b>L-147</b>			
<b>Acceptance Standards</b>	<b>Customer Specifications</b>					Procedure: <b>QCP-601</b>				
<b>Type of Inspection</b>	Soundness <input checked="" type="checkbox"/>	Thickness <input checked="" type="checkbox"/>	Bond <input type="checkbox"/>		Transducer			Transducer Serial No.: 020HFC		
	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		Couplant / Batch #		
	UT Equipment/Model: USN-60				Frequency: <b>5 MHz</b>		Size: <b>0.375"</b>		Angle: <b>0°</b>	
	Serial # 01NLKN				Flat <input checked="" type="checkbox"/>		Concave <input type="checkbox"/>		Convex <input type="checkbox"/>	
	Calibration Date: 10/5/2011				Standard		Material		Notch Depth	
Calibration Due: 1/5/2012				Step Wedge <input checked="" type="checkbox"/>		Material		Thickness Range		
				Tube Wedge <input type="checkbox"/>		C/S		0.200" - 0.500"		
<b>Reference: Summary</b>						<input checked="" type="checkbox"/> See Attachment				
<b>The following areas were requested to be inspected:</b>						<b>Results of Inspection:</b>				
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.				
<b>** Please see attached reports for additional information.</b>										
Copy To: Pacific Gas & Electric Company GE Inspection Services (Los Angeles)					Requested By: <b>Redacted</b>			Reported By/Technician: <b>Redacted</b>		
					<input checked="" type="checkbox"/> Customer Specifications <input checked="" type="checkbox"/> Accept <input type="checkbox"/> Reject			NDT Supervisor: <b>Redacted</b>		

**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 SERVICES DOES NOT GUARANTEE ANY CONDITION OF THE TESTED SPECIMEN.

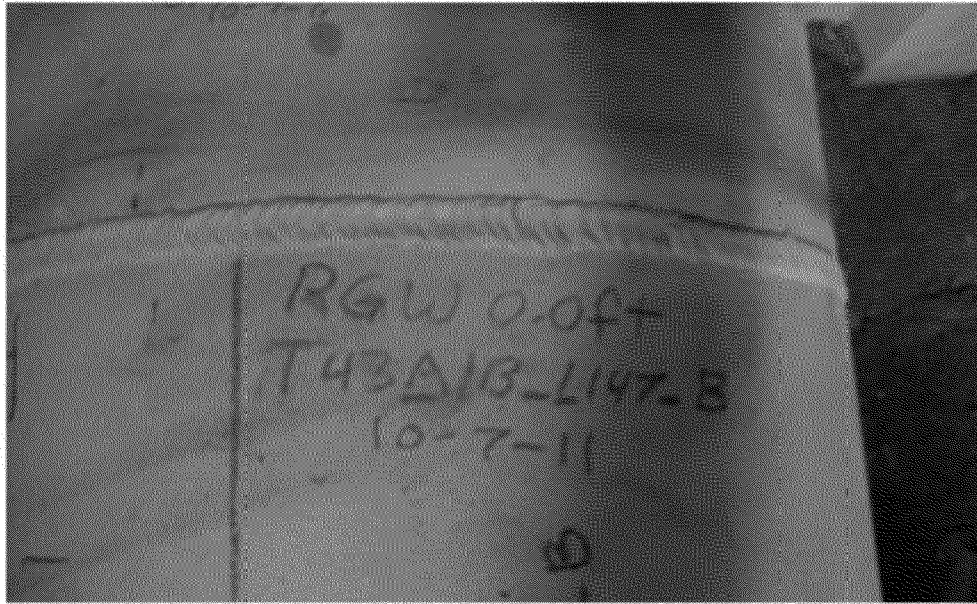


*This report is strictly confidential, legally privileged, containing GE Intellectual Property, & is intended for Pacific Gas & Electric representatives only. Distribution to*









Overview of Reference Girth Weld measurements were taken from.



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

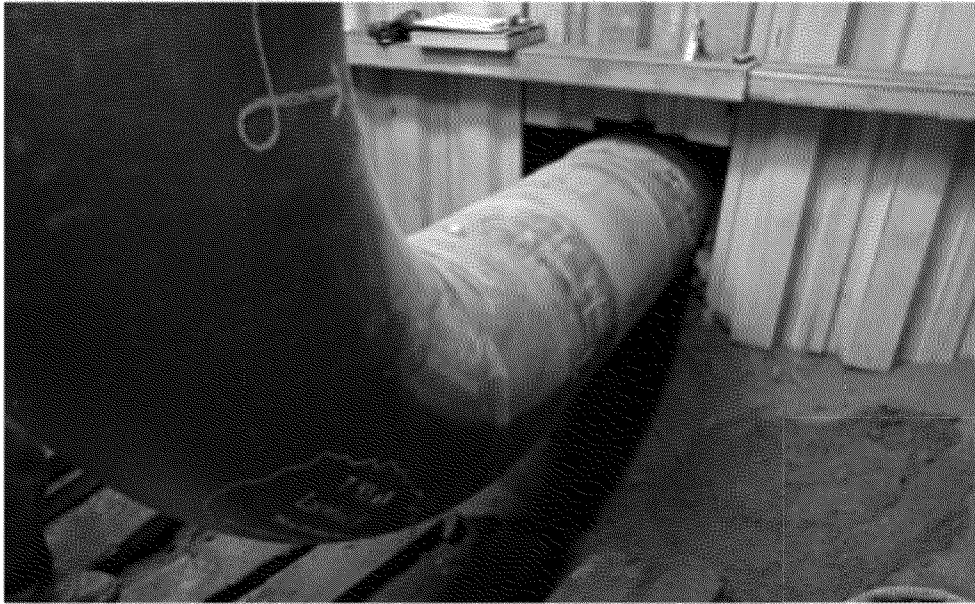


Overview of coating condition -1ft to 2ft, 3:00 position



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





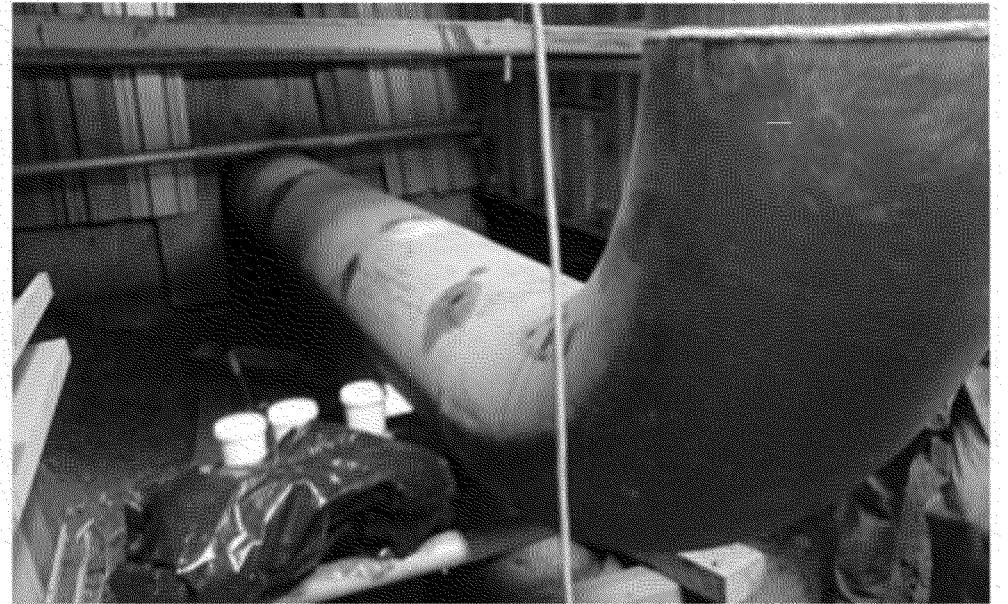
Overview of coating condition -1ft to 2ft, 9:00 position



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

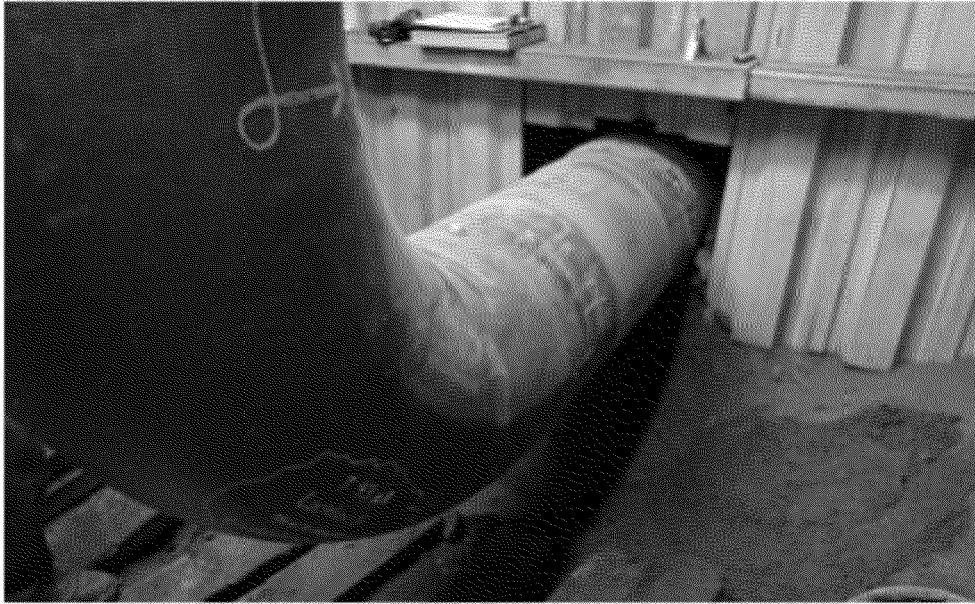


Overview of MPI layout -1ft to 2ft, 3:00 position



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

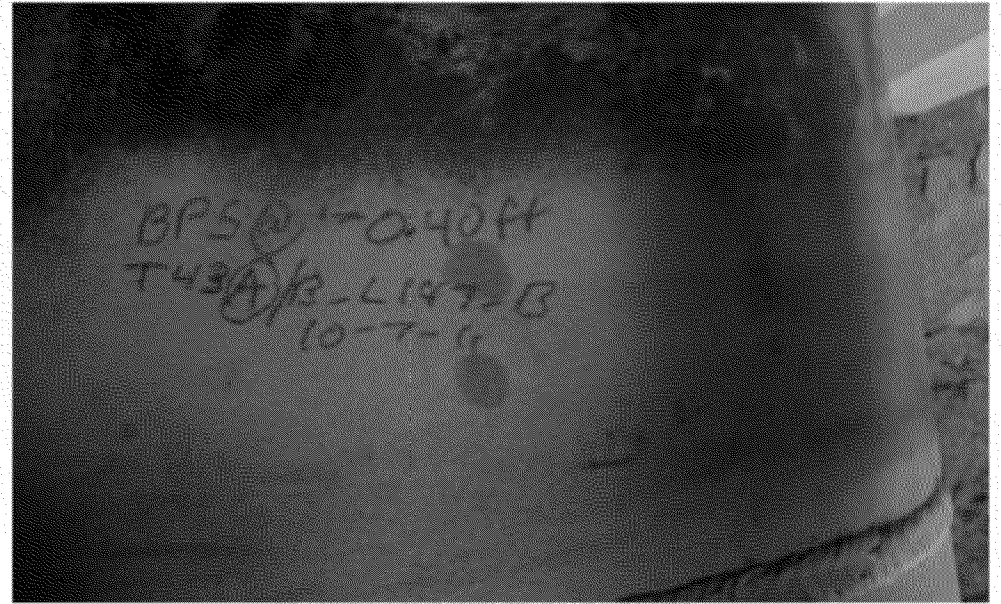


Overview of MPI layout 17ft to 20ft, 9:00 position

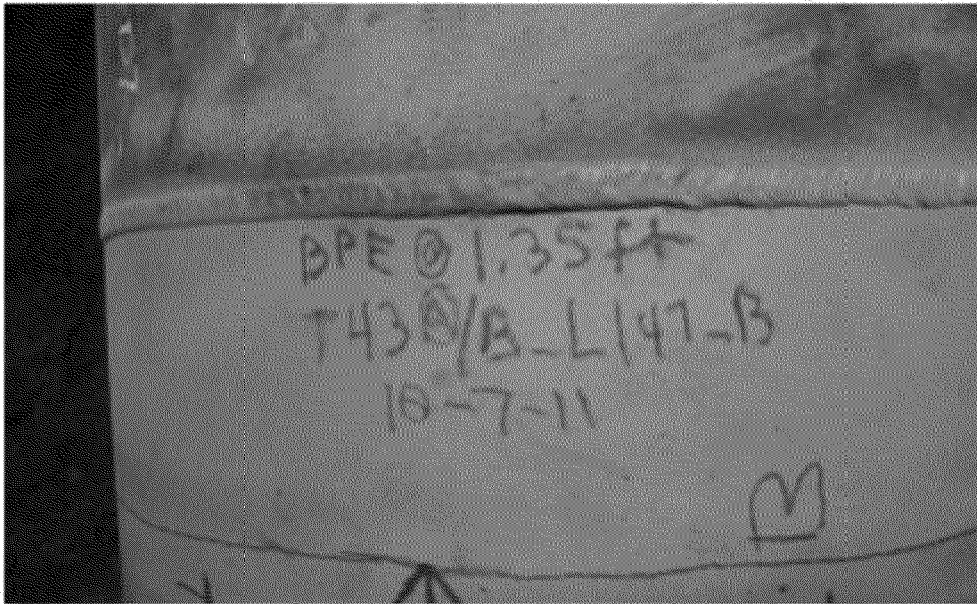




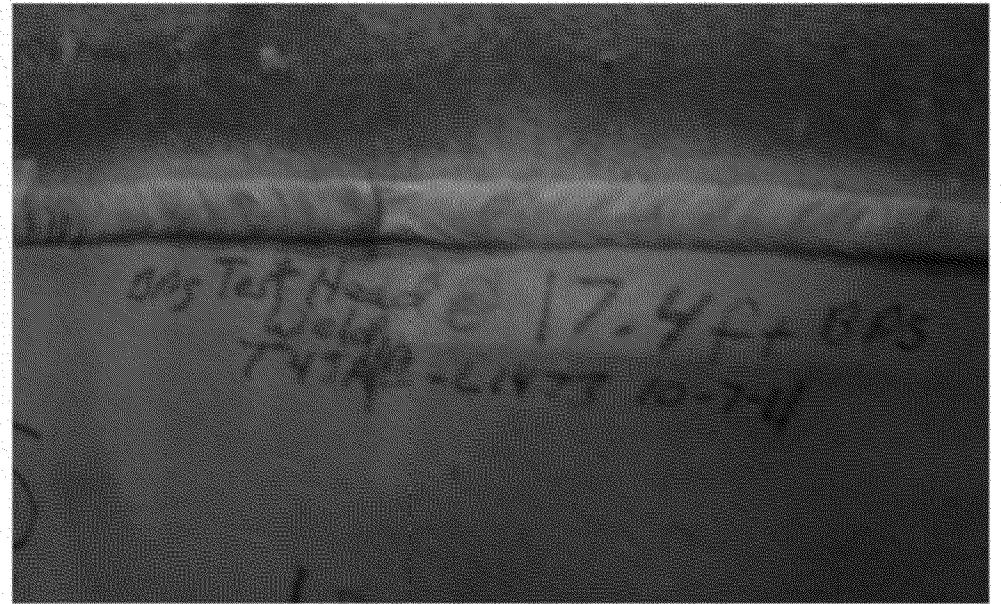
Overview of MPI layout 17ft to 20ft, 900 position



Overview of bare pipe start

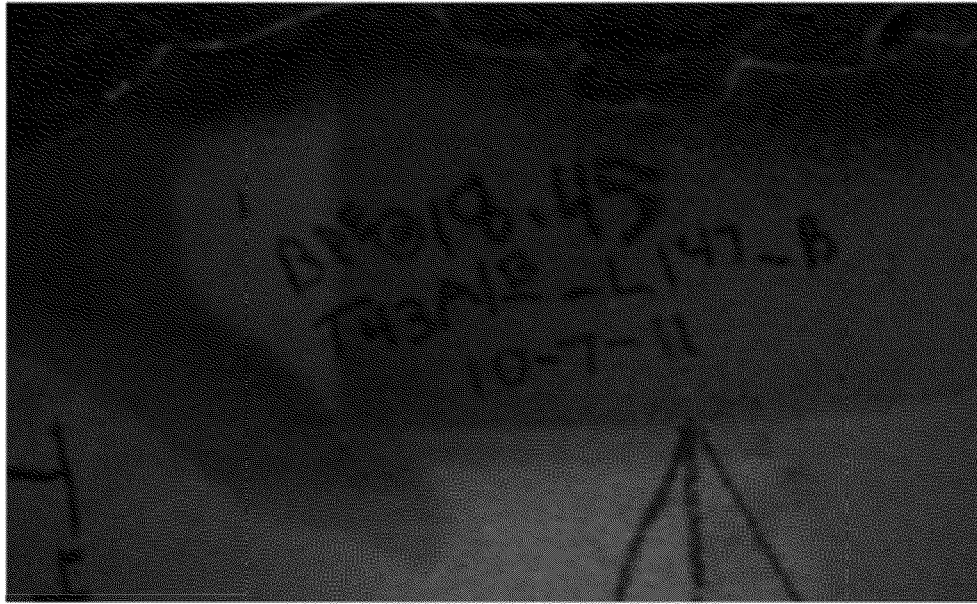


Overview of bare pipe end

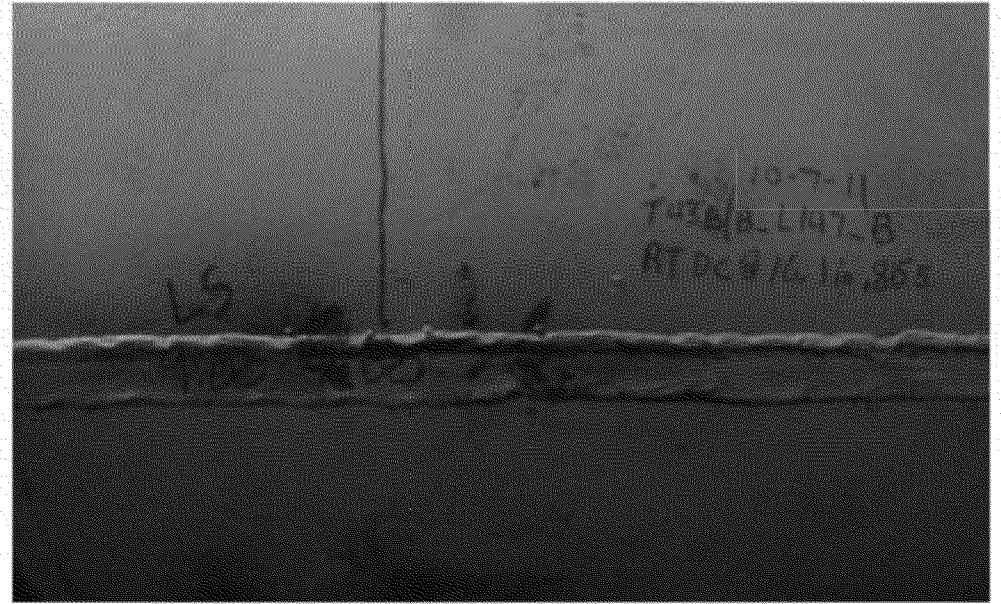


Overview of bare pipe start

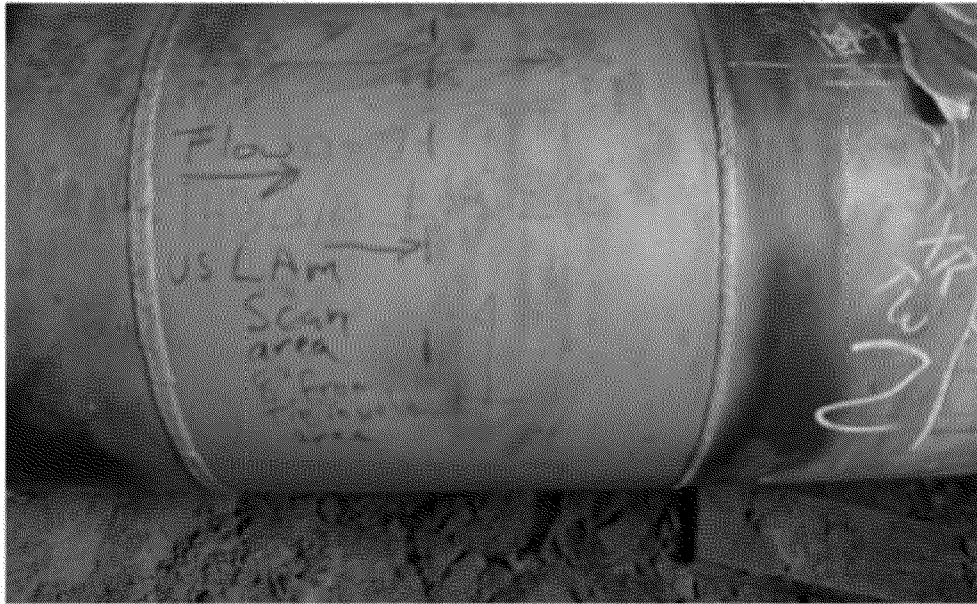




Overview of bare pipe end.



Overview of feature joint long seam @ 8:55.



Overview of US lamination scan area.



Overview of DS lamination scan area.





Overview of US 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



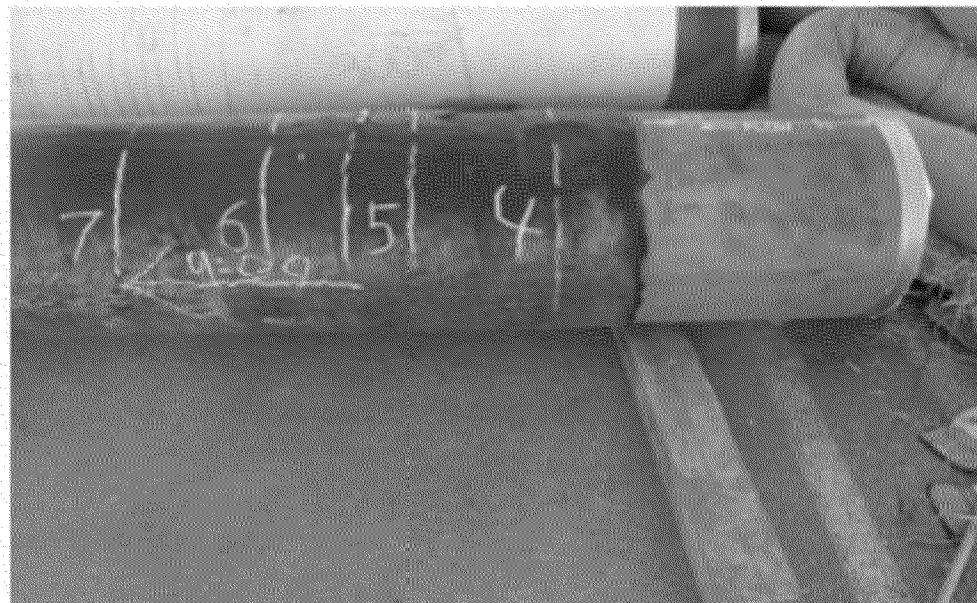
Overview of coating condition 3:00 position



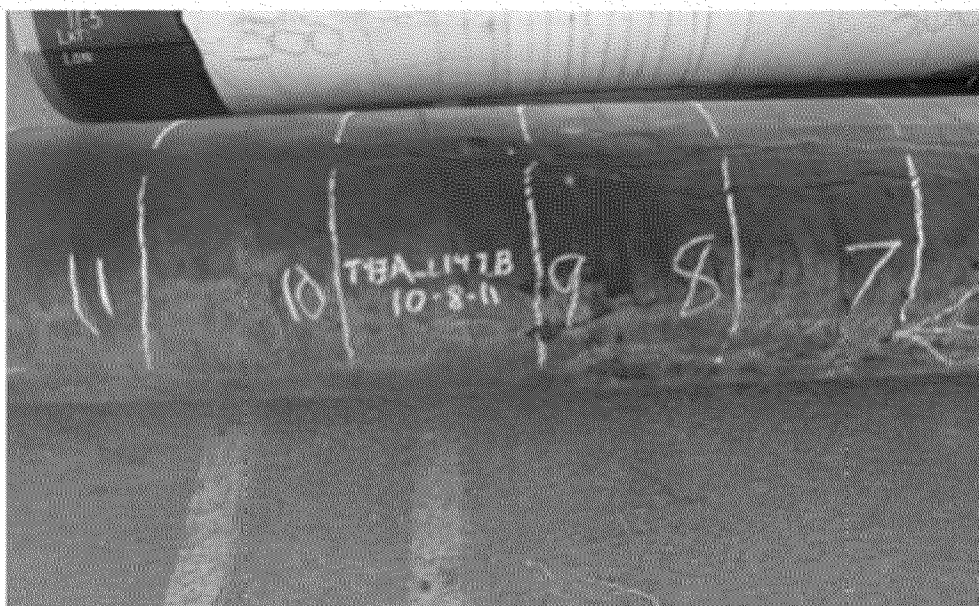




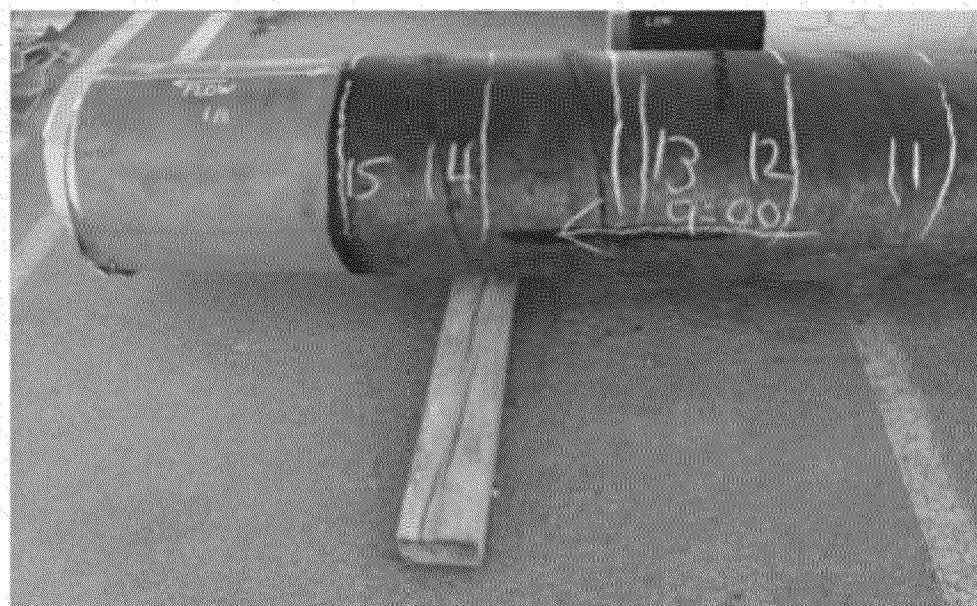
Removed pipe section coating assesment 9:00



Overview of coating condition 9:00 position

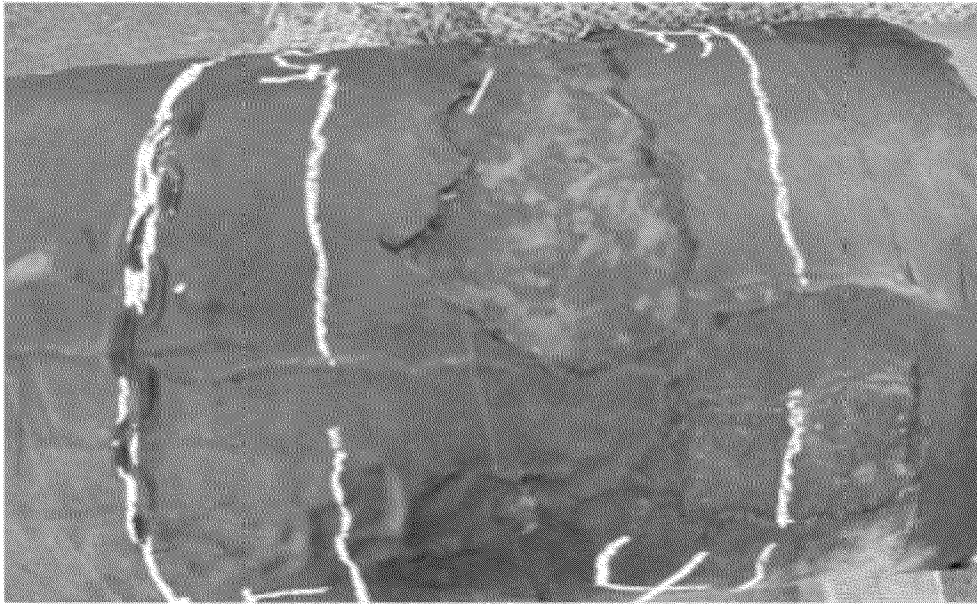


Overview of coating condition 9:00 position

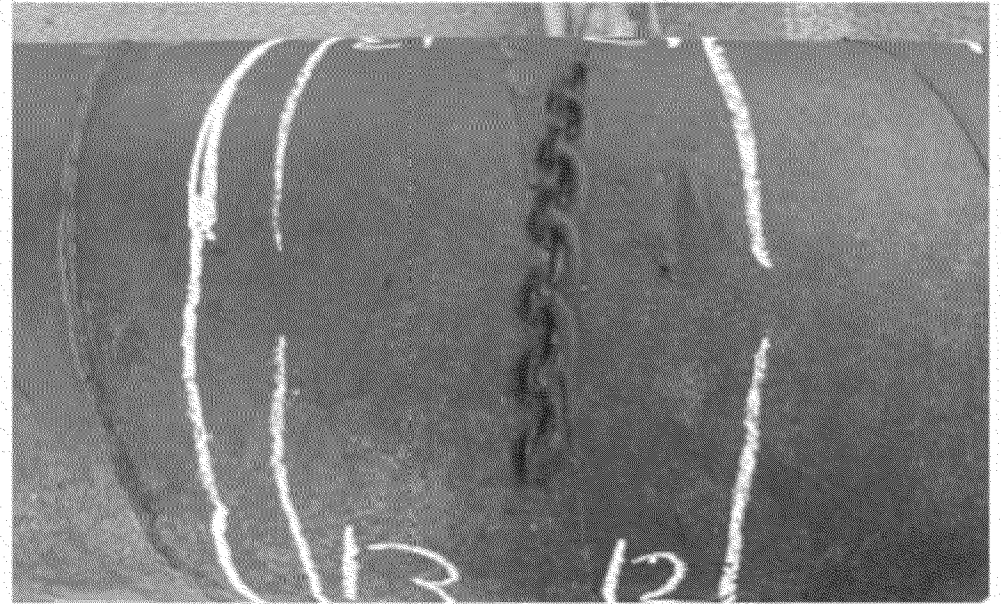


Overview of coating condition 9:00 position

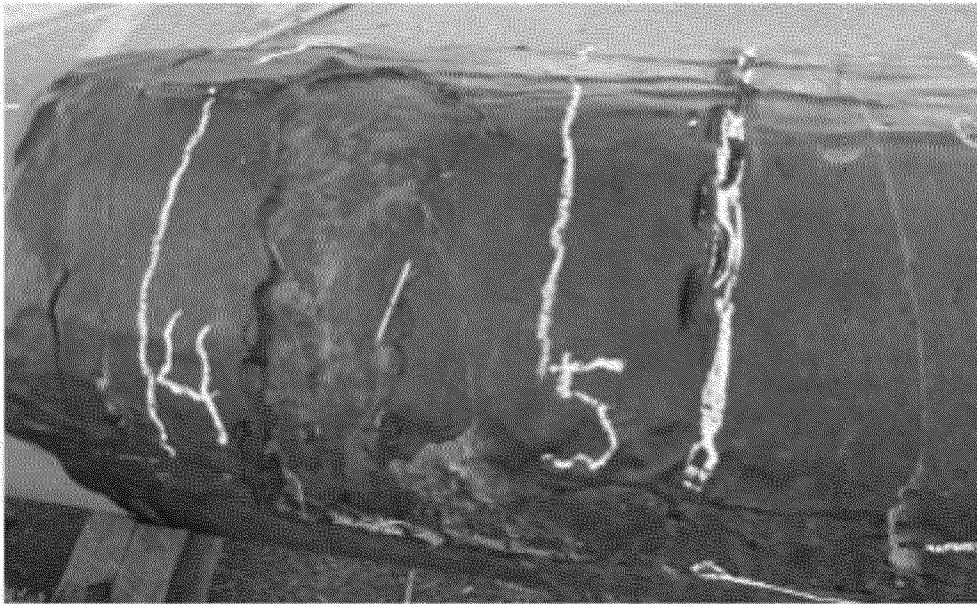




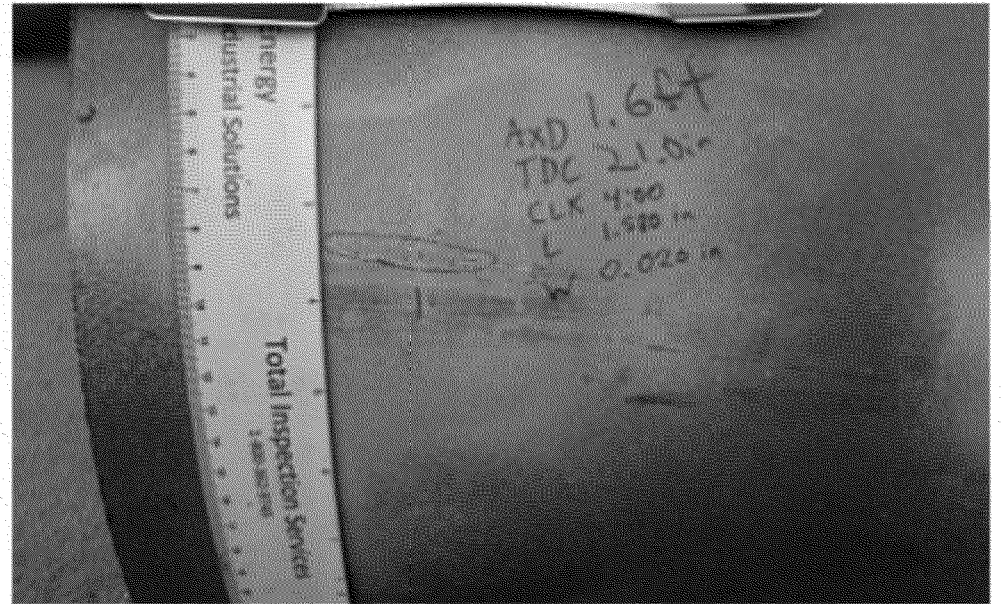
Coating damaged from removal process.



Coating damaged from removal process.

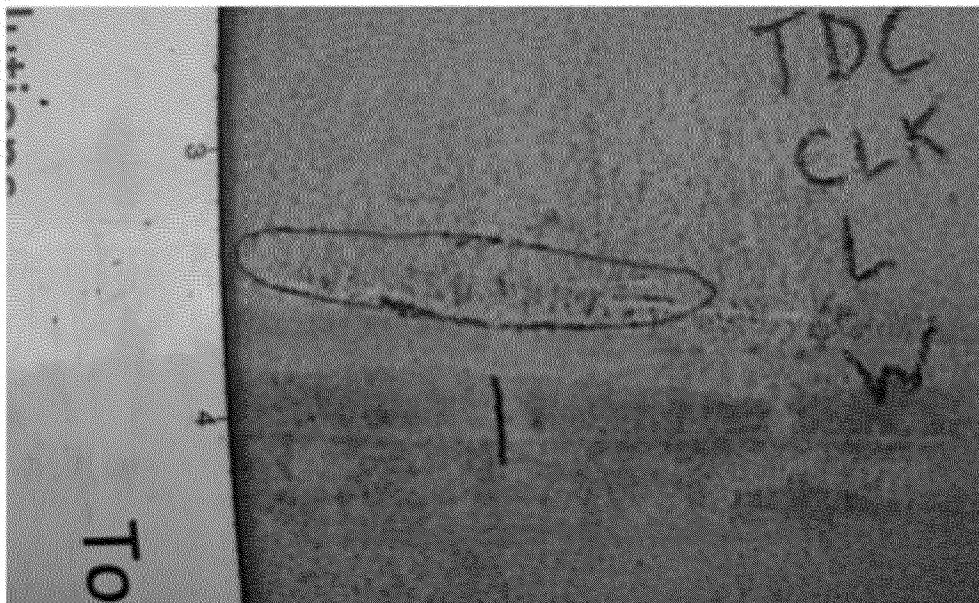


Coating damaged from removal process.

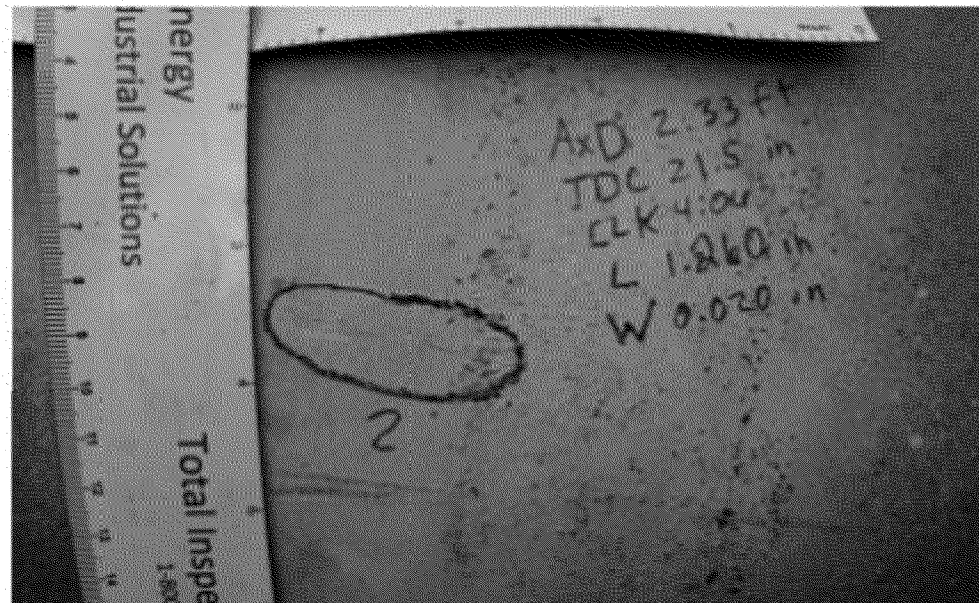


Removed pipe section linear indication-01.

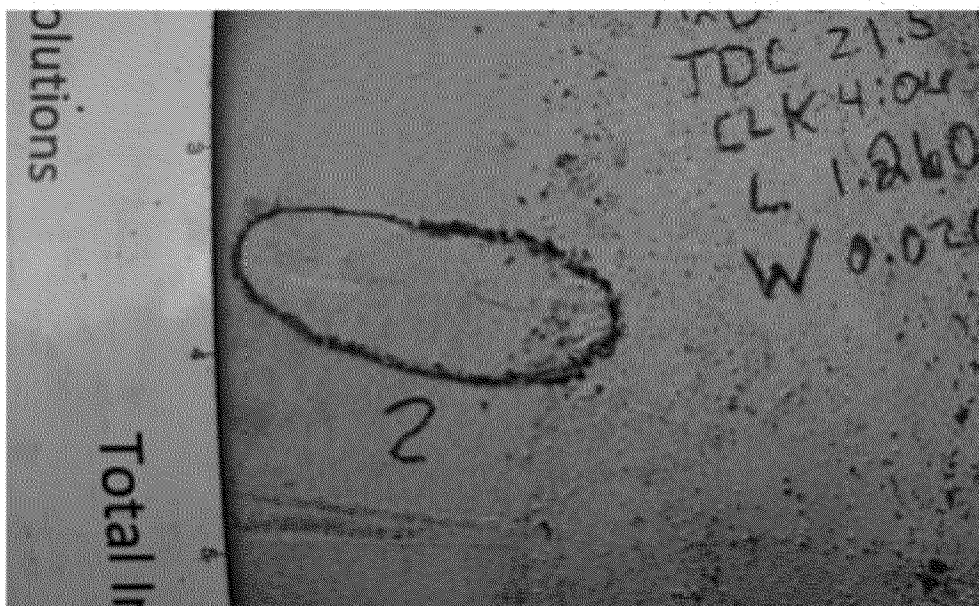




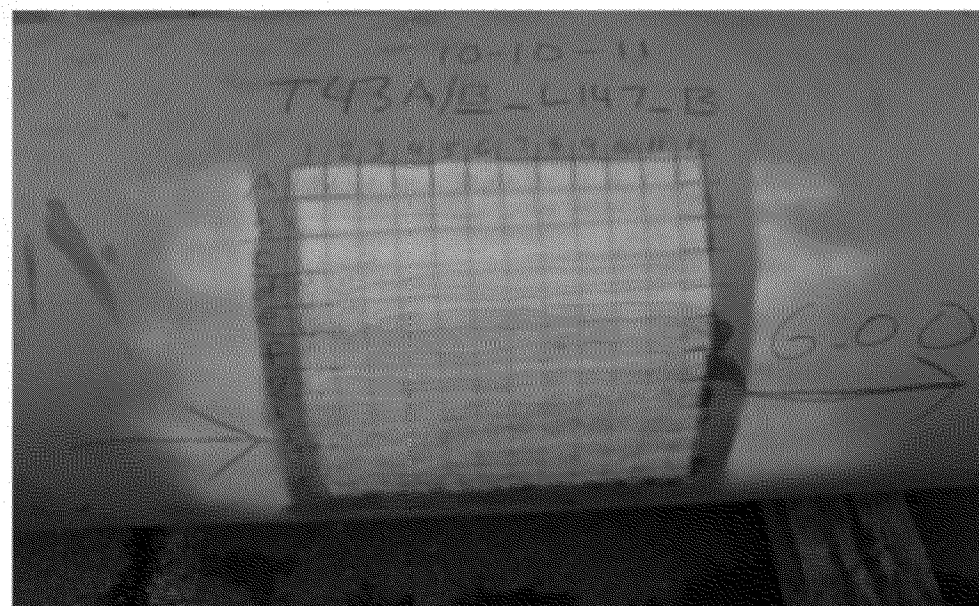
Close-up of MT Indications of LIN-01



Removed pipe section linear indication-02

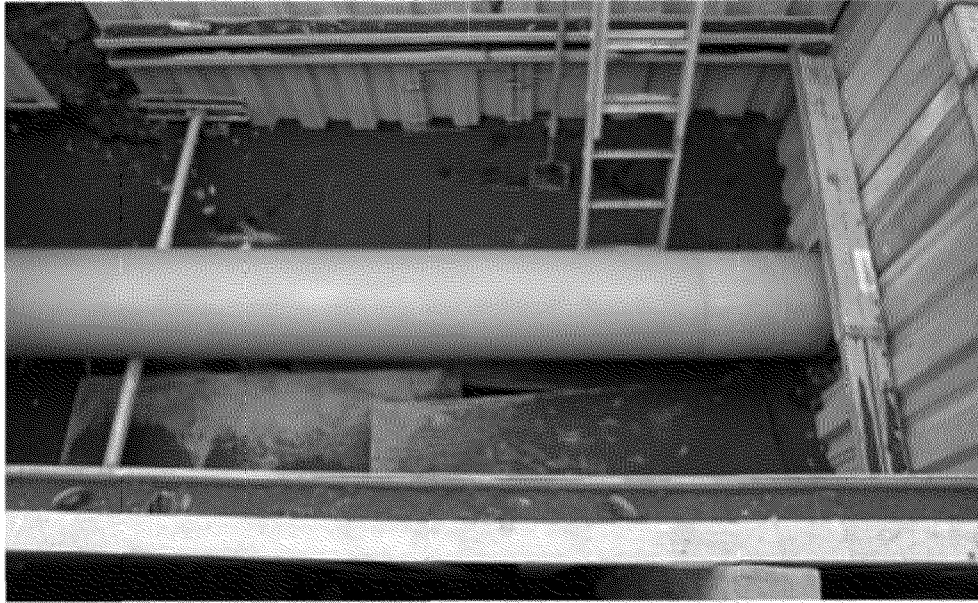


Close-up of MT Indications of LIN-02

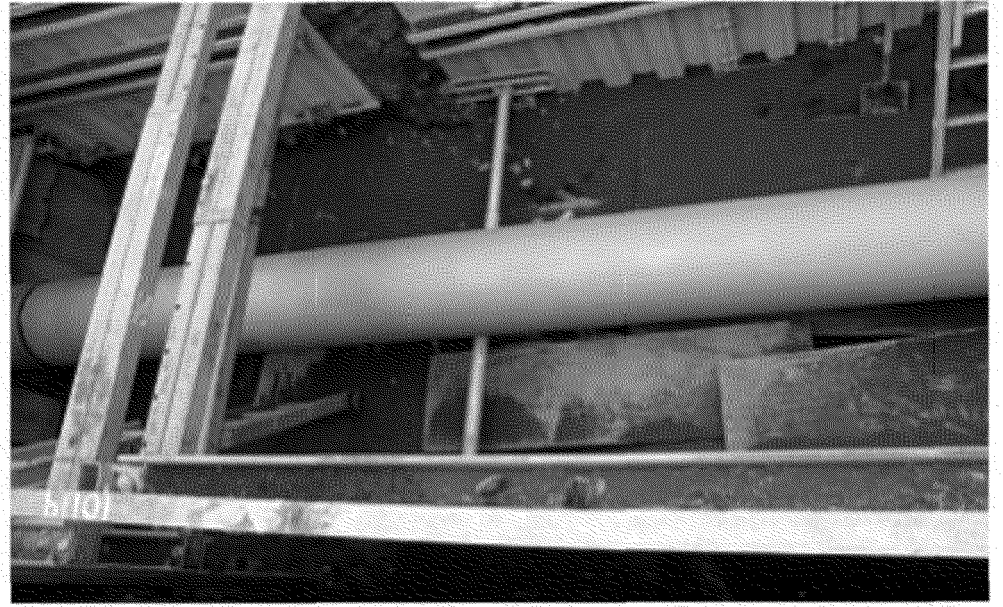


Overview of UT Grid

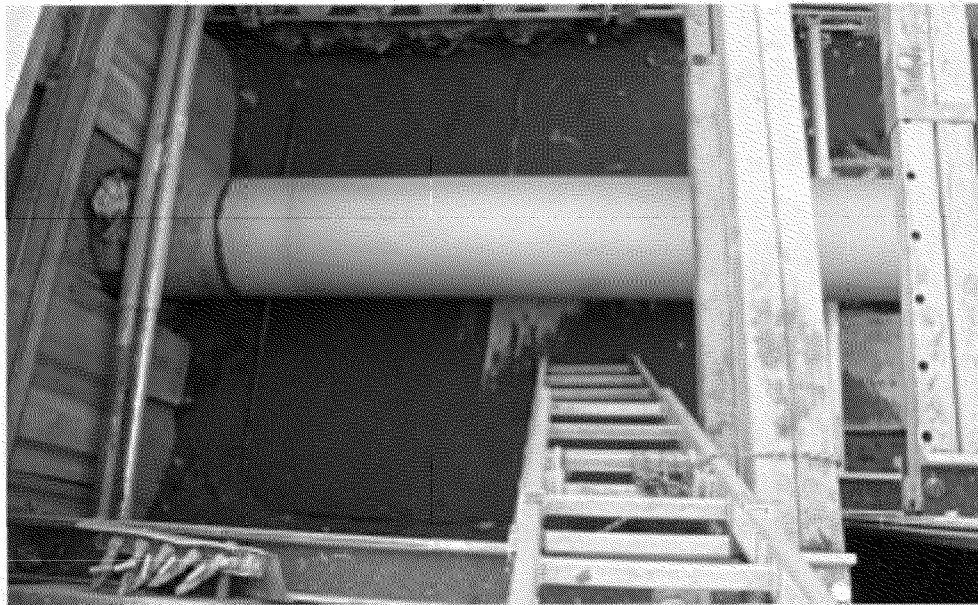




Overview of clean blasted inspection area prior to recoat activities



Overview of clean blasted inspection area prior to recoat activities



Overview of clean blasted inspection area prior to recoat activities

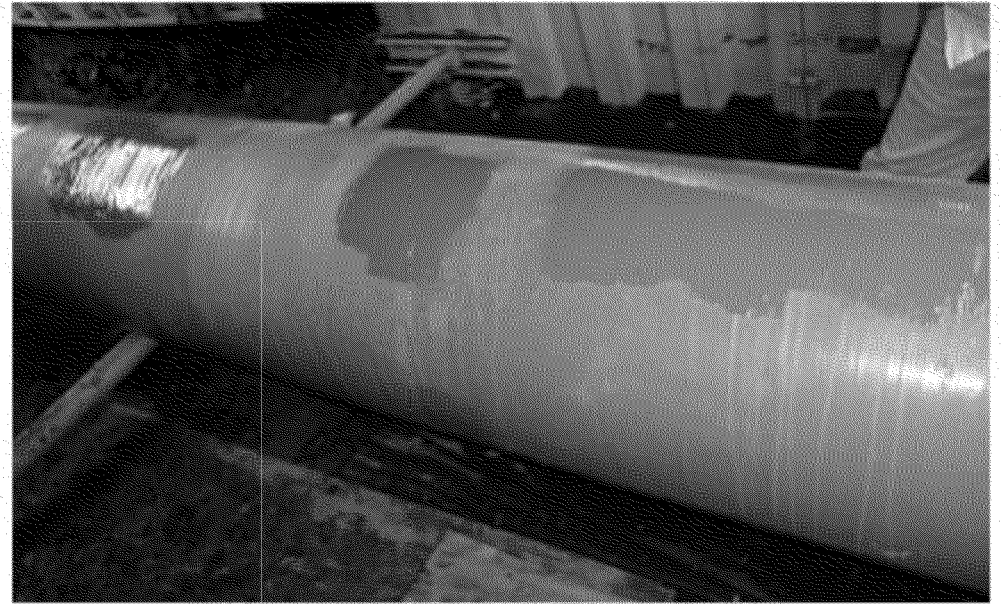


Overview of final coating condition US 300





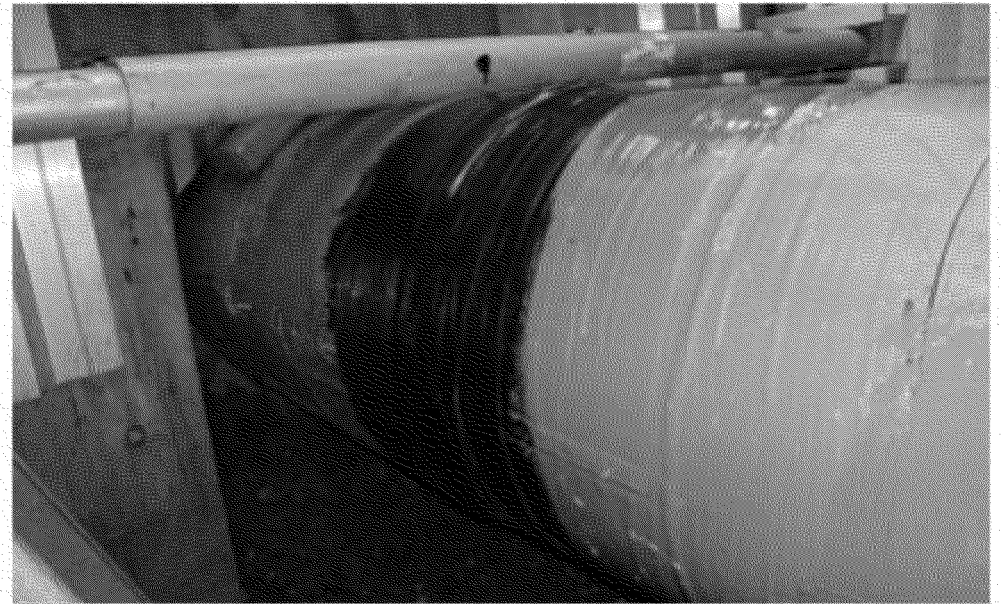
Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition US 3:00

