INSPECTION SERVICES
Pipeline Integrity Team
CWA # 2500461774
GEIS Job # LAPI0015

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

Photo Report of T43A/B_L147_B Redacted

Authors: Redacted

Date: December 2, 2011



Form H:	Direct	Examination Data Sheet -	Page 1 of 10						
		DA/ILI Route Number:	L-147	Site Designat	DA ion: T43A/B_	R	ILI Log Distance:	NA NA	
	D	ate of Excavation:	10/7/2011	N-Segm			RMP-11 Ref. Section:	Table 5.6.2	
		Mile Point: Re	dacted	IMA Num			Reference Girth Weld:	NA	
Ex		ion Performed By:	daccea				Distance From Girth Weld:	NA	
	PG&E	Project Manager:		Region Num					
		Approved By: Order Number:	NA NA	Subregion # (IC Station	·				
			101	_	•				
<u>E)</u>	cavatio	on Priority:		_	Excavation	Reason			
	lmm	nediate Schedule	d (For ILI -	1 Year Other	ECD/		Recoat		
	Mon	nitor Effective	ness X	Hydro Test	ICDA	Oth	er <u>NA</u>		
If Excavation		al, take P/S or CIS reads befor s: U/S Ditab Ctost CIS Co	e excavation:	(Uncorrected Field Measu	ramant)		NA		
LXCAVALIO	i Detail	Northin Redacte	d l	(Officorrected Field Medist	PDOP: NA	Planned Ex	cavation Length (Ft.):	NA	
		Easting			Acc~: NA		cavation Length (Ft.):	21.0ft	
		Centerline GPS Coo	ordinates	(Uncorrected Field Measu	rement)		GPS File Name:	Redacted	
		Northing: NA		<u> </u>	PDOP: NA				
		Easting: NA			Acc~: NA				
		D/S Ditch End GPS	Coordinates	(Uncorrected Field Measu	rement)				
		Northing Redacte	ed		PDOP: NA				
		Easting			Acc~: NA				
1.0 Data	Before	Coating Removal							
		lative Soil Type:	X Clay	X Rock X Sa	ind Loam	Wet	Other NA		
•	. 1 14	1.1A Backfill Material Found:	X Cidy		ırry Native		Cover (Ft.):	6.00ft	
				Jill Jil	IIIyIVauve	Deptilor	Sover (Ft.).	0.0010	
	С	comments: NA							
1	.2 C	coating Type:	HAA 🔲 :	Somastic P	astic Tape	Wax Tape	FBE	Powercrete	
		Bare/None	X Coal Tar	Other: NA		Comments:	NA		
	_	Coating Thickness (Inches):	0.250in		Number of Layers	, —			
		rodung Tillokness (illones).	0.23011		Number of Layers				
1	.3 H	Ioliday Testing Performed?:		Yes X No	Voltage Used: NA		Map Location of H	olidays Below.	
		Dev	ice Used:	Coil Wet Spong	je	Comments:	NA		
1	.4 P	ipe-to-Soil Potentials in Ditch	(-mV): // 🔼	US: 12:00 -5	26 3:00 -5	30	6:00 -535 9:00	-526	
		`		DS: 12:00 -60	3:00 -6	58	6:00 -640 9:00	-663	
	_		, has been held att.	-1927					
	C	comments: CP system may	be turned on.	// >> // >					
1		ioil Resistivity in Ditch (Ω-cm)	: (C)	//>\\	· · · · · · · · · · · · · · · · · · ·	_			
1	.5 S	ioil Resistivity in Ditch (Ω-cm) Method: X 4-Pir	: (C/		٥	Soil Box	NA .		
	.5 S	ioil Resistivity in Ditch (Ω-cm) Method: X 4-Pir Comments:	: 24469.5 ohm/ci		<u> </u>	Soil Box	NA SRM-100 US: 131.5Kg	Ω/cm DS: <u>6.1 KΩ</u>)/cm
	.5 S	ioil Resistivity in Ditch (Ω-cm) Method: X 4-Pir	: (C)		osition under pipe.	Soil Box		Ω/cm DS: <u>6.1 KΩ</u>	D/cm
1	.5 S C l.6 S	ioil Resistivity in Ditch (Ω-cm) Method: X 4-Pir Comments: ioil Sample Location Ground Water Present?:	: 24469.5 ohm/ci	NA Ditch end (DS) 6:00 (osition under pipe.				D∕cm
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i oilli II. Dile	ct Examination	Data Shee	et - Paye 2 Oi	10					
	DA/II	_			<u>DA</u>	_		<u> </u>	
	Route Number: ate of Excavation:	L-1		Site Designat		_B	-	Distance:	NA Table 5.6.2
ט		10/7/2 Redacted	2011	N-Segm IMA Numi			RMP-11 Re Reference G		NA
Examinati	on Performed By:	reducted	-	IIIA Nulli	NA NA		Distance From		NA NA
	Project Manager:		–	Region Numi	,		Diotano i i oni		101
	Approved By:	INA		Subregion # (IC	•				
	Order Number:	N/	A	Station					
	hotos Taken?*: See Photo Log for	X Yes additional inf	No No Tormation.						
1.11 C	oating Sample T	aken?:	Yes	X No	Location of Sample	:		NA	
1.12 L	iquid Underneath	n Coating?:	Yes	X No	If Yes, pH of Liquid:			NA	
	orrosion Produc	t Present?:	Yes	X No	If Yes, Was Sample	e Taken?:	Yes	X No	
1.14 S	oil pH (Sb Electro	ode):	Upstream:	6.0	Downstream:	7.5	Pipe	рН:	6.0
2.0 Data Afte	r Coating Rem	oval		_					
	ipe Temperature		60.0° F		Measured Pipe	Diameter (In.):	63" = 20.05	u	
	/eld Seam Type:	· ·	SAW	_ ssaw e	RW 🗖 SMI				
		⊢ ≓ s	piral 🛱	Lap F	lash AO	Smith	IF CAN'T DETER		Y PERFORM
22.0	inth Malal Canadi			• 🛏	, , , , , , , , , , , , , , , , , , ,		MACROETCH &	LOCATE	
2.3 G	irth Weld Coordi	nates & iden	itity Type (See	•	PDOP: NA				
	Northing: NA Easting: NA			 '	Acc~: NA	I S Weld 0	Clock Position(s)· 8:55	
	Elevation: NA		//		7.00 . 101	LO Weid V	Slook i Osition(s). <u>G.55</u>	
			-// //.	/L.					
2.4	Damage Found:	1		X No	Machanical Dr	maga	Yes	V No	
	Corrosion Dama	· ,	- // -	No o corrosion found gr	Mechanical Da	image	L Tes	X No	
	Other Damage	- INOITIEIEVA	17	41 /1 XS					
2.5 U	T Wall Thickness			18 28 597	US/DS		US / DS		US / DS
		4 O'clo	OC: 0.270"/0		0.267"/0.272"	_ 2 O'clock	0.267"/0.271"	3 O'clock	0.265"/0.271"
		4 O cic			0.266"/0.271"	6 O'clock 10 O'clock	0.268"/0.273" 0.266"/0.264"	7 O'clock 11 O'clock	0.266"/0.272 0.269"/0.270"
					7/ ///			11 O Clock	0.209 /0.210
U	T Wall Thickness	s Grid @ 6:00	0 is required. E	Be sure to attach gr	id to H-Form electre	onically. See p	age 6 of 10		
2.6 W	let Fluorescent N					y p	age e or re.		
		-		Comments:	2 linear Indica	ations on the rer	noved pipe sect		Photo report.
V	ere there any line	-		Comments: Yes No	2 linear indica	ations on the rer DE report electro	noved pipe sectonically as part o	of the H-Form.	·
	·	ar indications	s? X	Yes No	2 linear Indica	ations on the rer DE report electro	noved pipe sectonically as part o	of the H-Form.	·
2.7 T	ake Photos to Do	ear indications	rosion and Ot	Yes No	2 linear indica	ations on the rer DE report electro	noved pipe sectonically as part o	of the H-Form.	·
2.7 T *\$	ake Photos to Do See Photo Log for	ear indications ocument Cor additional inf	rosion and Oth	Yes No	2 linear indica	ations on the rer DE report electro	noved pipe sectonically as part o	of the H-Form.	·
2.7 T *(2.8 O	ake Photos to Do See Photo Log for verview Map of C	ear indications ocument Cor additional inf	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and	noved pipe sect onically as part of I white light pho	of the H-Form.	·
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2.7 T *5 2.8 0 *5 *Note any ca	ake Photos to Do See Photo Log for Verview Map of O See Pit Depth Mea	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T *\$ 2.8 O *\$	ake Photos to Do See Photo Log for Verview Map of O See Pit Depth Mea	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T ** 2.8 O ** *Note any ca	ake Photos to Do See Photo Log for Verview Map of O See Pit Depth Mea	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T ** 2.8 O ** *Note any ca	ake Photos to Do See Photo Log for Verview Map of O See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T ** 2.8 O ** *Note any ca 12 o'cloc	ake Photos to Do See Photo Log for Verview Map of O See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T **3 2.8 O **5 *Note any ca 12 o'cloc	ake Photos to Do See Photo Log for everview Map of C See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T *5 2.8 0 *5 *Note any ca 12 o'cloc	ake Photos to Do See Photo Log for everview Map of C See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T **3 2.8 O **5 *Note any ca 12 o'cloc	ake Photos to Do See Photo Log for everview Map of C See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T ** 2.8 O ** *Note any ca 12 o'cloc 9 o'cloc 6 o'cloc	ake Photos to Do See Photo Log for Overview Map of C See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T **3 2.8 O **5 *Note any ca 12 o'cloc	ake Photos to Do See Photo Log for Overview Map of C See Pit Depth Mea alcareous deposits	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·
2.7 T ** 2.8 O ** *Note any ca 12 o'cloc 9 o'cloc	ake Photos to Do See Photo Log for Overview Map of C See Pit Depth Mea alcareous deposits k	ear indications ocument Cor additional inf Corroded Are asurement Gr	rosion and Otlormation.	Yes No	2 Mear indica If Yes, attach NE Report to include	ations on the rer DE report electron black light and ce Point: <u>NA</u>	noved pipe sect onically as part of I white light pho	of the H-Form.	·

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

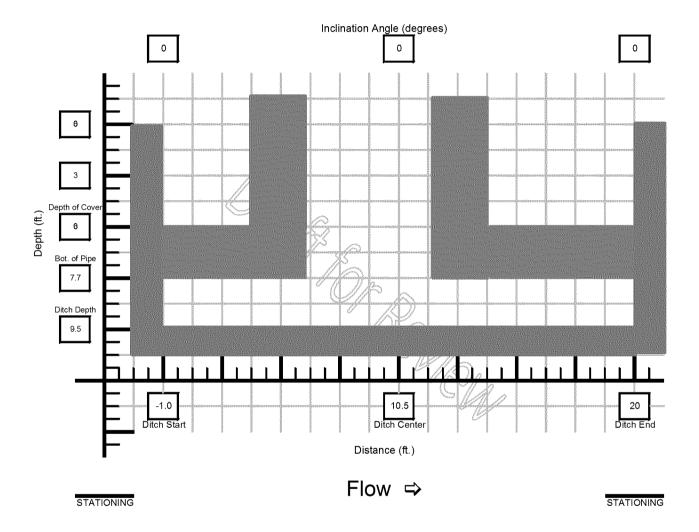
DA	<u>/ILI</u>
Route Number:	L-147
Date of Excavation:	10/7/2011
Mile Point:	Redacted
Examination Performed By:	
PG&E Project Manager:	
Approved By:	NA
Order Number:	NΔ

D	<u>A</u>
Site Designation	T43A/B_B
N-Segment:	NA
IMA Number:	NA
	NA
Region Number:	NA
Subregion # (ICDA):	NA
Stationing:	NA

<u>IL</u>	<u>.l</u>
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").

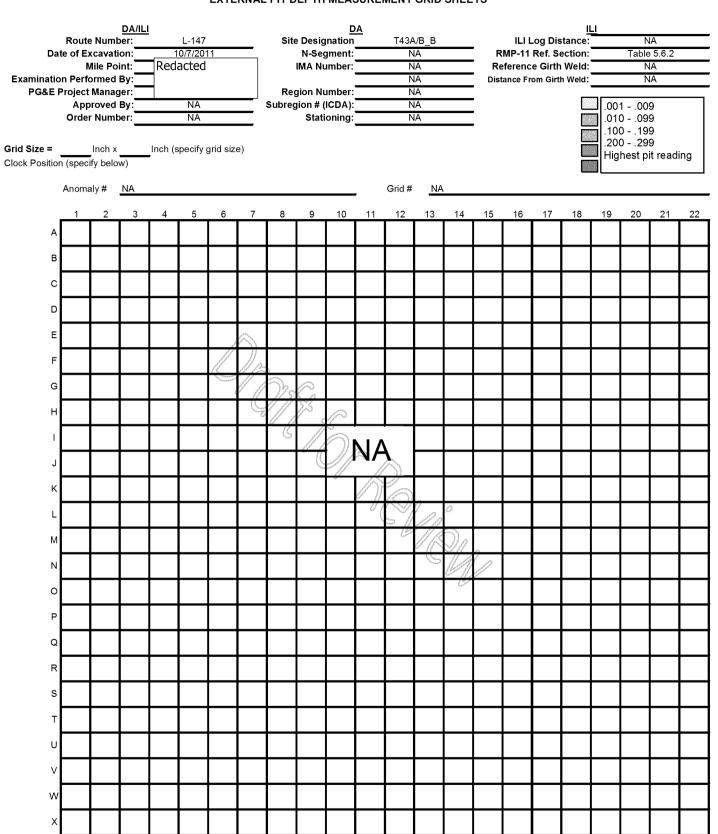


NOTES: (Record stationing and names of nearby landmarks such as creeks and roads. Provide any additional information that may help in spatially positioning pipe):

*See attached Delorme screen shot on page 11.									

Form H: Direct Examination Data Sheet - Page 5 of 10

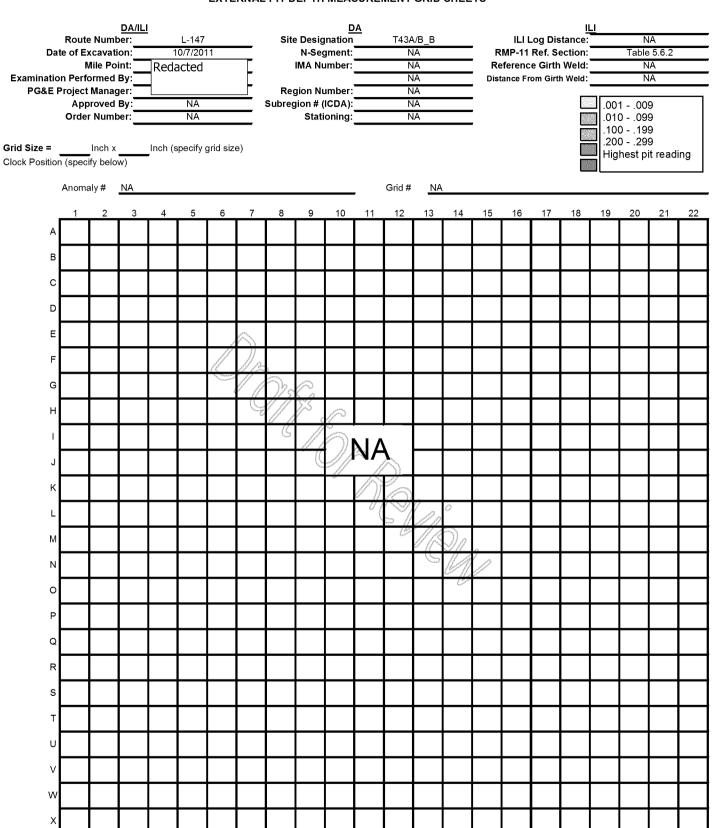
EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS



PIT DEPTH GRID 1 OF 2

Form H: Direct Examination Data Sheet - Page 5 of 10

EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS



PIT DEPTH GRID 2 OF 2

Form H: Direct Examination Data Sheet - Page 6 of 10

INTERNAL CORROSION WALL LOSS GRID

	DA/ILI					DA					II	_1	
Route No			147		Site Desig		T43A	VB_B			Distance:		NA
Date of Exca	_		/2011		_	gment:		IA		MP-11 Re		T	able 5.6.2
		Redacted	d		IMA Nu	ımber:		IA		ference G			NA
Examination Perform					D! N-	 		IA .	Dist	ance From	Girth Weld:		NA
PG&E Project Ma Approv					Region Nu			IA IA	_				
Approv Order Ni	· · · —		IA	<u> </u>	region # (oning:		IA IA					
Older No	er.	11	iA	_	Stati		- 11	iA	_				
Grid Size = 1 Inc Clock Position (specify the All measurements are in		Inch		UT	Grid is cer	itered @ 6	i:00 positic	on on pipe					
	1	2	3	4	5	6 \	/ 7	8	9	10	11	12	_
А	0.251"	0.251"	0.249"	0.249"	0.249"	0.249"	0.249"	0.248"	0.248"	0.248"	0.248"	0.248"	
В	0.251"	0.254"	0.251"	0.251"	0.249"	0.249"	0.249"	0.249"	0.248"	0.248"	0.248"	0.249"	
С	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"	0.2517	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"	[]
н	0.248"	0.249"	0.249"	0.249"	0.248"	0.247"	0.247	0.2470	0.246"	0.246"	0.246"	0.246"	[]
1	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"	

0.246"

0.247"

0.247"

0.247"

0.247"

0.249"

Κ

0.247"

0.247"

0.246"

0.248"

INTERNAL CORROSION GRID

0.246"

0.248"

0.244"

0.248"

0.244"

0.242"

0.244"

0.244"

0.244"

0.244"

0.244"

0.246"

0.246"

0.244"

1 of 1

COATING DAMAGE

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

	FEET FROM			
NO.	FEET FROM REFERENCE	O'CLOCK	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
NA	NA	NA	NA	NA
	† †	// // n-		
	 		Do./A	
	 	7//	11 75-0	
	 	7		
	 			
	 			
	1			
	† †			
	+ +			
	+ +			
	+ +			
				7
	+ +			
	+ +			
	+ +			
	+ +			
	+ +			
	+ +			
	+			
	+			
	+			
	+ +			
	+ +			
	+			
	+			
	 			

CORROSION LOG

DA/	<u>ILI</u>	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:			NA	Distance From Girth Weld:	NA
PG&E Project Manager:		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
INA	IVA	IVA	IVA	IVA	INA
		-6			
			/2·<		
			/		
			<u> </u>		
					
			0 // 53		
				7 , 0	
				20	
			<u> </u>		
				E C	
+					
					

PHOTO LOG

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

PHOTO NO.	LOCATION	DESCRIPTION	COMMENTS								
****See attached photo report.											
		•									
		1/3% <u>1</u>									
			<i>0</i>								

Form H: D	irect Examination	Data Sheet - Page 10 of	10			
	DA/IL	_	<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 NA	RMP-11 Ref. Section:	Table 5.6.2
Evami	Mile Point: ination Performed By:	Redacted	IMA Number:	NA NA	Reference Girth Weld: Distance From Girth Weld:	NA NA
	G&E Project Manager:	 	Region Number:	NA NA	Distance From Girth Weld.	INA
10	Approved By:	NA NA	Subregion # (ICDA):	NA NA	-	
	Order Number:	NA	Stationing:	NA		
					_	
3.0 REC	COAT DATA					
3.1	Sandblast Media:	Sharp Sho	ot 30/60	Anchor Profile M	Average: 3.2 mils	
3.2	Pipe Recoated With	n:				
	Powercrete J	X Poly Tape	Bar-Rust 235	Dev Grip 238	Dev Tar 247 X Protal 720	00 PE Tape
3.3		oating Systems, Record E	nvironmental Condition:			
	Air Temperature:		-	Dew Point: 45.1		
	Pipe Temperature: Time of Day:		-	elative Humidity: 51.4	<u>%</u>	
	Time of Day.	12.30 pm	-			
3.4	Repair Coating Har	dness (If ARC Coating:)		82 6:00 - 79 79 6:00 - 75	9:00 - 79 12:00 - 12:0	79 81
3.5	Measured Coating	Thickness: US	3:00 - 33.7	6:00 - 38.7	9:00 - 57.5 12:	00 - 27.4
0.0	aaaa.aa caag	DS		6:00 - 28.6	_	00 - 29.3
	Holiday Tested?:	X Yes No		,	_	
	·	= =	37.16	1.415.02	- · · · · · · · · · · · · · · · · · · ·	\/=0
	Device Used:	Coil Wet Spo	_		Repair All Holidays.	YES
3.6	Coupon Test S	tation Installed?:	res X No ETS	S Installed?:	Yes X No	
	If Yes, Date Installed	I: <u>NA (///</u>	<u></u>			
	Surface Configuratio	n:: Fink	G-5 Box Carsonite	e Other: 1	NA	
3.7	Backfill Material:	Native	mported Sand	Other:	NA	
	Coating Protections?	· P Yes N	10 (-		
	-			. —		
	If Yes, Check One:	Rockguard	Tuf-E-Nuf C	onwed L Other	NA	
3.8	•	gs Over Bell Hole After Ba	// 			
	*If specified, a CIS s	hould be done for approxima	tely 100' on either side of t	he bell hole. Attach d	ata.	
	Comments: NA			// /SO) n		
			(a)	<u> </u>		
					-	
3.9	Attach site sketch	of excavation site.			7	
				~ // ₂ /	N 10	
4.0 REPA						
4.1	Repair Made:	Yes X No	4.2 Number of	Repair Made: NA		
4.3	Repair Type	Metallic Sleeve	Non Metallic S	leeve Repla	ce 🔲 Can 🔲 Filler Meta	al 🔲 Other
4.4	Damage Repaired:	Corros	ion	chanical Ot	her	—
	<u> </u>		<u> </u>			
Misc Co	mments/Information	· T43A had coating re	moved area for inspection	was blasted from co	iting up to test pipe tie in weld. Abou	at 1 ft of coating
					eld. About 1.5 ft of coating was inspe	
	was inspected at the F	· · · · · · · · · · · · · · · · · · ·	J	, ,	J ,	
			·			

INSPECTION & LIFE EXTENSION SERVICES

	MAGN	ETIC PARTICL	E EXAMINA	ATION	REPORT			☐ Nuclear	✓ Non-f	Nuclear
To: Pacific Gas & Electric Company							Date: 10/7/2011			
Project:										
			T43A/B	_L147_	Redacted					
Purchase Order No	D:				Job No:					
							LAPI00	15		
	Weld	Structural C	Casting Ma	chinery						
		П	П	П	П	जि	П		N/A	
Item	Non-Weld	Plate	Pipe	Bar	Casting	Mach. Pai	ts N/A	Other:	11/7	
	[7]				П	, identit di	- N/A	Other.	NI/A	
	Size	Material Thickne		f Base Mo	rtorial	To a of Sillon N	<u> </u>	147-1-1	N/A	
Material	20"					Type of Filler N		Weld		
	Redacted	0.250"	Car	bon Ste	<u> </u>	C/S	Smooth	S n Auso both le	lded As v	Welded
Location	Redacted				yste	m				
								L-147		
Acceptance		Customer Spe	cifications		Proce	dure				
Standards		customer spe	ciricutions				GEIS QC	P # 500 Rev	15	
Town of Charle	Initial	Plate Edge 📉 In	Process Bac	k Gouge	Root Pas	s Repair	12	2 Hour	24 Hour	Final
Type of Check	V									4
	Longitudina	ıı Goir)) ₂ /2, [DC Pi	robe	✓ Continue	ous	Other:		
	✓ Wet			□ Direc	ct Contact	✓ Residua				
					or ournage.					
Type of Inspection	Circular	AC Pr	od ()	√]²:Yoke	\wedge	Other				
	MT Yoke & Model - Serial No. / Blacklight Model - Serial No. Surface Preparation Method									
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -							a b		
	Parker DA-400 - S# 18830 / Spectroline BIP - S# 159/251 Abrasive Blasting (Kleen Blast) - NACE 2 Finish								511	
	Magnaglo 14A / Flourescent Green / 09M12K							N/A		
Deference Cumme		JIO 14A / FIGURE	scent Green /		ee Attachmen) //	1	N/A		
Reference: Summo		4 4- b-:	- d.	<u> </u>	ee Attuchinen	1120 0	4	Results of	Inspection	n
		ted to be inspect	eu:				- No releva	nt indications foun	d @ time of inso	
Bare pipe: -0.40' to 1.35' from original U/S ditch start. 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 inc	lications were foun	d.	
Summary:	6 COLIF	1.6		** ** ** ***						
		nd of pipe), AL=1.58 nd of pipe), AL=1.20								
	removed pipe section	, , .	, 577 – 575 – 5							
You although to a	A6	ki n(tidatia.					· · · ·		
	tne removed pipe sect	tion. Please see attac	nea pnoto report to					D	ta alamata ta 1	
Copy To:			Kequ	Requested By:			Reported By (Technician):			
Pacific Gas & Electric Company					Redacted			Redacted		
					reduc	iteu		rteade		
GE Inspection Serv				4	Customer Sp			NDT superviso		
				\ \ \					r:	

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

11126261	O11 O/ E11		31011 301	V:000							
	U	LTRASO	NIC EXAM	INATION	REPOR			☐ Nuclear	✓ Non-Nuclear		
To:						Fr Redacte	d	Date:	Date:		
Pacific Gas & Electric Company									10/7/2011		
Project:				T474/D I	167 B Day	J					
Purchase Order N	No:			143A/B_L	.147_B Rec	actea					
r dichase Order i	v o.				GE13 30D NO.		LAPI	0015			
	Weld	Structural	Casting	Machinery	Mach. Parts	Pipe	N/A	Other:			
Item	V					V					
	Non-Weld	Plate	Pipe	Bar	Casting	Mach. Parts	N/A	Other			
Material	Size:	<u></u>	No. of Pieces	Type of B	Base Metal	Type of Fil	ler Material	Weld	✓ N/A		
, idiciidi		0''	1		n Steel	1 ''	/S				
Location	Redacted					System					
								L-147			
Acceptance		Cueta	mor Cnosifia	-tions		Procedure		OCD 601			
Standards	Soundness	Thickness	mer Specific	duons		Transducer		QCP-601	Transducer Serial No.:		
		- I	/Ö')	V	Single Crystal	Dual Crys		ıl	020HFC		
	Pulse Echo	Angle-Beam	Other /	Frequency		Size	·	ngle	Couplant / Batch #		
	V))~/3N	MHz SMHz		0°		Sonatest Ultragel II		
Type of	UT Equipmen	t/Model		11 12-2-11	lat	Concave	Convex		/ 25-901 07225 AF		
Inspection	USN-60		7 (~~								
	Serial # 01NLKN Stan			Standard	tandard //		Notc	h Depth	Serial No.:		
	l c	Calibration Date:									
		10/5/2011		Step Wedge		Material	Thickness Range		Serial No.:		
	Cali	bration Due: 1/5	/2012	Tube Wedge		G/S	0.200"	- 0.500"	V34693		
Reference: Sur	nmary				✓ See	Attachment	0	Results of I	nspection:		
The following									•		
12" × 12" (1"×:	-			he pipe.		- 4/	VX/3/		time of inspection.		
12" laminatio						16	No relevant indications @ time of inspection. - No relevant indications @ time of inspection.				
Thickness rea	ıdings US & (DS inspection	n areas at the	clock positi	ons.		- No relevan	t indications @	time of inspection.		
** Dlagge gar	a attachad :	vananta far a	dditional info	rma a tia n							
** Please see attached reports for additional information.								Reported By	(Technician):		
Copy To: Requested By					acted						
Pacific Gas & Electric Company GE Inspection Services (Los Angeles) Customer Specific							ns.	NDT Supervi			
						Reject			acted		
Accept Re						- 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 SERVICES DOES NOT GUARANTEE ANY CONDITION OF THE TESTED SPECIMEN.



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Overview of Reference Girth Weld measurments 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



Page 17 of 29

Redacted

GE Energy Inspection



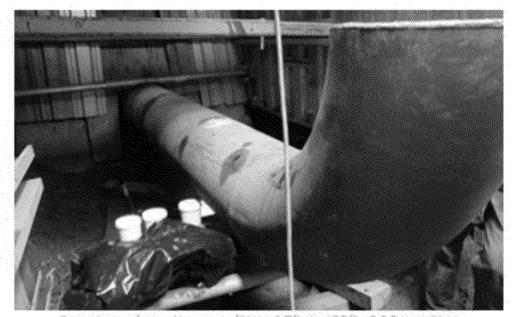
Overview of coating condition -1ft to 2ft, 9:00 position



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



Overview of coating condition 17ft to 20ft, 300 position



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



Page 18 of 29

Redacted



Overview of coating condition 17ft to 20ft, 900 position



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



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



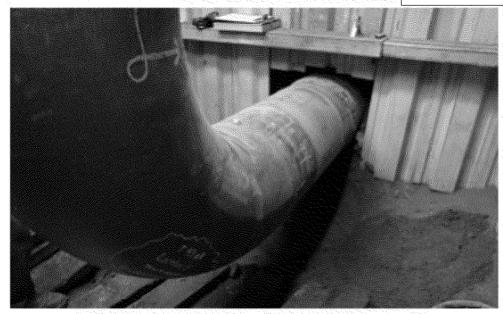
Overview of MPI layout -1ft to 2ft, 900 position



Page 19 of 29

Redacted

GE Energy Inspection



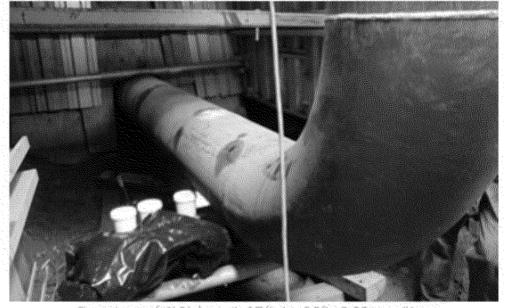
Overview of MPI layout -1ft to 2ft, 9:00 position



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



Overview of MPI layout 17ft to 20ft, 300 position



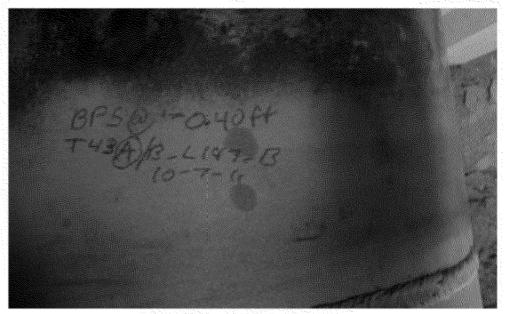
Overview of MPI layout 17ft to 20ft, 9:00 position



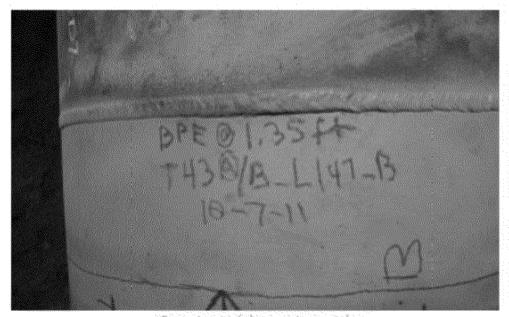
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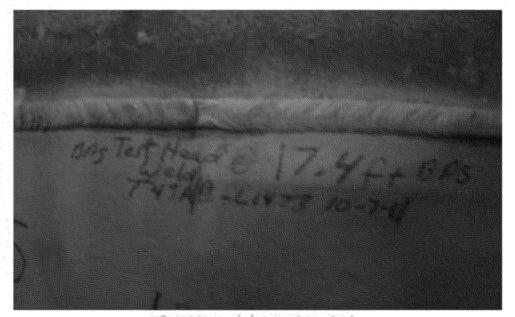
Overview of MPI layout 17th to 20th, 900 position



Overview of bare pipe start



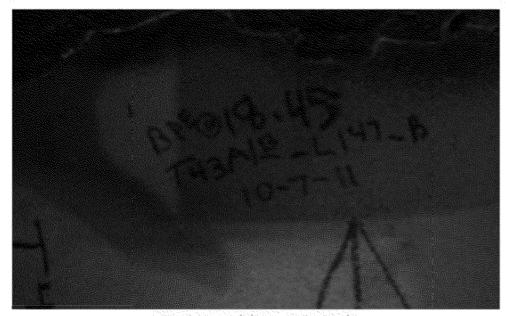
Overview of bare pipe end



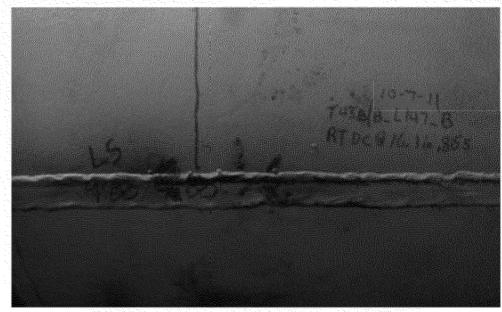
Overview of bare pipe start



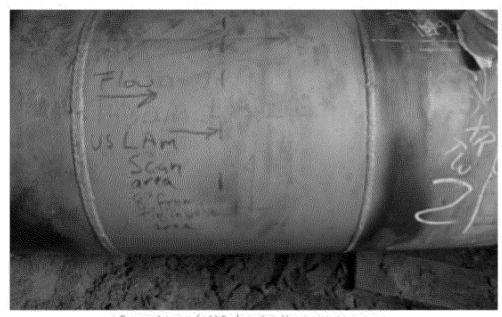




Overview of bare pipe end



Overview of feature joint long seam @ 8:55



Overview of US lamination scan area.



Overview of DS lamination scan area.



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Redacted

GE Energy Inspection



Overview of US MPIOK and Lamination scan OK.



Overview DS of MPIOK and Lamination scan OK.



Overview of pipe Ph.



Closeup of pipe Ph



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Removed pipe section coating assesment 3:00



Overview of coating condition 300 position



Overview of coating condition 300 position



Overview of coating condition 3:00 position



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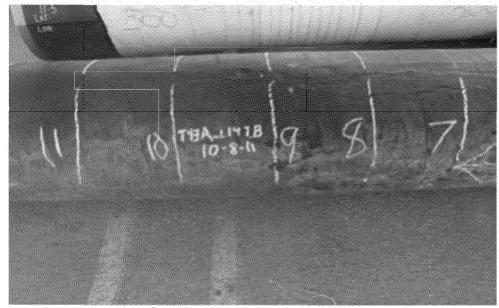




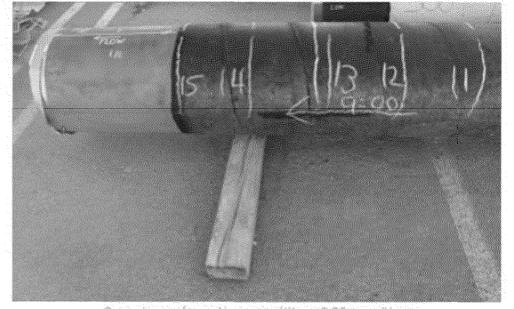
Removed pipe section coating assessment 9:00



Overview of coating condition 9:00 position



Overview of coating condition 9:00 position

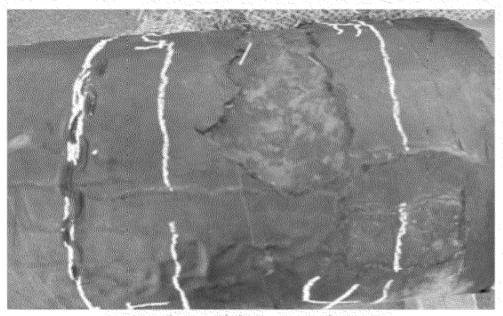


Overview of coating condition 9:00 position

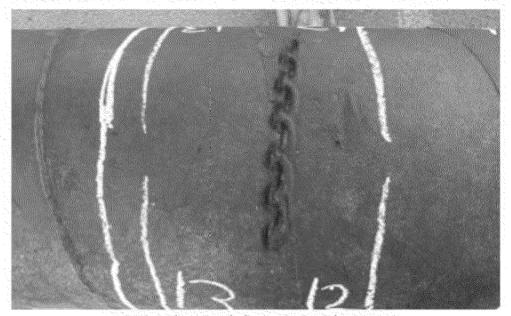


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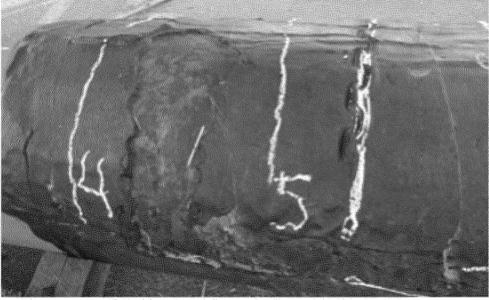
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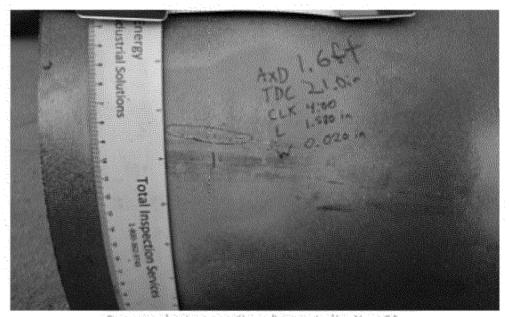
Coating damaged from removal process.



Coating damaged from removal process.



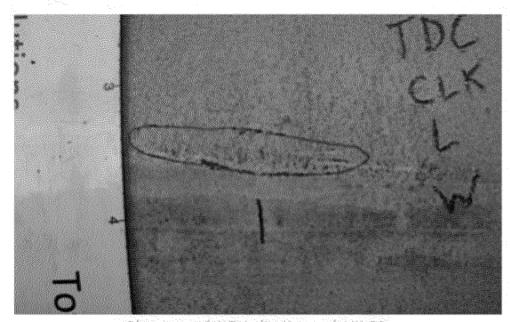
Coating damaged from removal process.



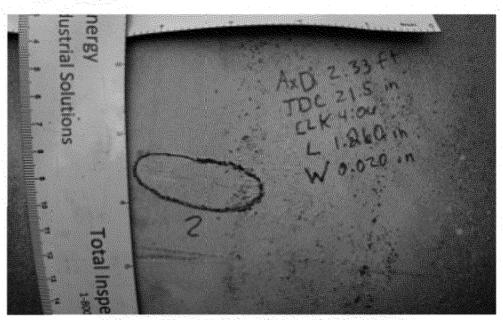
Removed pipe section linear indication-01



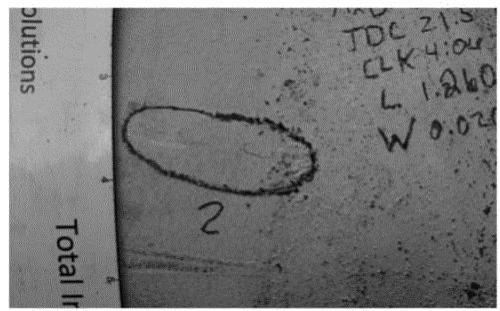
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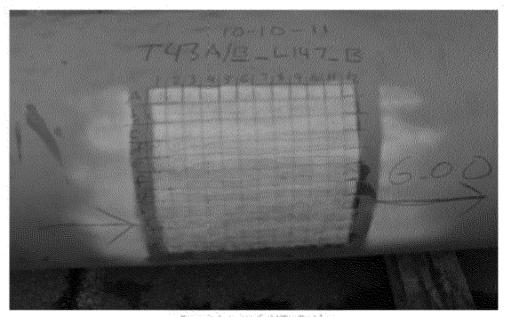
Close up of MT Indications of LIN-01



Removed pipe section linear indication-02



Close up of MT Indications of LIN-02

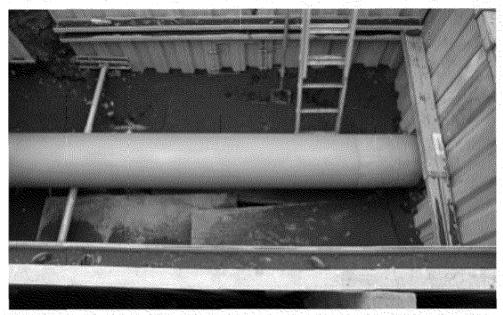


Overview of UT Grid.

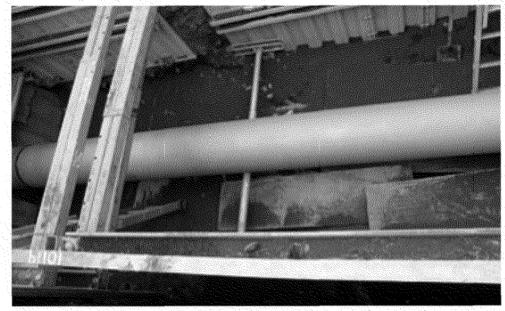


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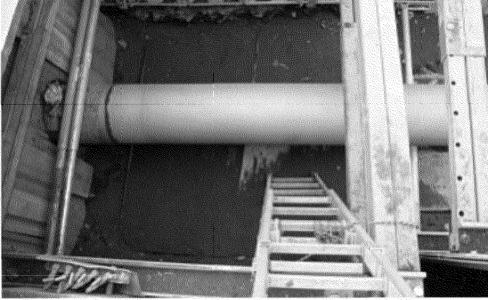




Overview of clean blasted inspection area prior to recoal activities



Overview of clean blasted inspection area prior to recoal activities



Overview of clean blasted inspection area prior to recoal activities



Overview of final coating condition US 3:00

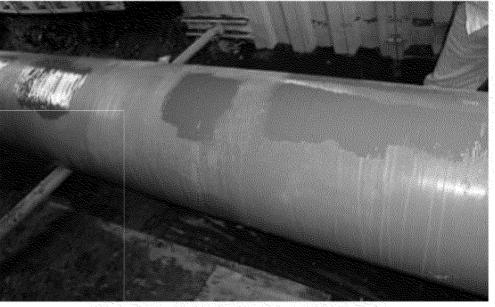


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Overview of final coating condition 300



Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition US 300



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