Route Number: 191-1	N-	Segment: 191-2	013	ILI Lo	<u>∟.</u> I Distance: I	<u>.</u> N/A	
Examination Date: 5/9/2013	IMA	Number: N/A		RMP-11 R	ef. Section:	N/A	
Mile Point: 14.18-14.71				Reference	Girth Weld:	N/A	
Examination Performed By: Nicholas Mortenson	Region	Number: 1		Distance From	n Girth Weld:	N/A	
PG&E Project Manager: Robert Liddicoat	Subregion	# (ICDA): N/A	<b>)</b>	-			
Order Number: 41821294	3	Lationing. 23+00	5	-			
Excavation Briority:			Excavation Posso				
Excavation Phoney.			Excavation Reaso	<u>"</u>			
Immediate Scheduled	1 Year	Other	ECDA	ILI	Recoat		
Monitor Effectiveness	ICDA		ICDA	Other			
If practical, take P/S or CIS reads before exc	avation: No tee	t point available					
Excavation Details: Centerline on GPS Coordinat	es (Based on GIS):						
Northing:		Pla	nned Inspection Leng	th (Ft.): 12			
Easting:		A	ctual Inspection Leng	th (Ft.): 12			
Centerline on GPS Coordinat	es (Uncorrected Fie	eld Measurement	t): GPS File	Name: PG&E N	ISEG 191-201	13 STA 25+0	0 MP
Northing:							
Easuriy:							
Centerline on GPS Coordina	tes (Corrected Field	d Measurement):	Nominal Wall Thi	ckness: 0.3125"			
Easting:			Nominal Pipe Di	ameter. <u>20</u>			
1.0 Data Before Coating Removal		_					
					0	1	
1.1 Native Soil Type: Clay	y Rock	Sand	Loam Wet	Other	Small Grav	/ei	
1.1a Backfill Material Found San	d Slurry	Native					
			Depth of Cov	er (Ft.): <u>6'1"</u>			
Comments: The native soil consisted	of loam and small g	ravel.					
1.2 Coating Type: HAA	Somastic	Plastic Tap	Wax Ta	ape FB	E	Powercrete	
Bare/None Paint	Other:		Comments				
Coating Thickness (Inches): 0.170		Numbe	r of Lavers: 1				
			· · · · · · · · · · · · · · · · · · ·	Maril	- ( )		
1.3 Holiday lesting Performed?: Ye	s No V	voitage Used: N/	A	wap Location	u Holidays B	elow.	
Device Used: Co	il Wet Spo	onge Con	nments: Coating was	visually inspecte	ed for defects.		
1.4 Pipe-to-Soil Potentials In Ditch (-MV): Comments: Pipe-to-Soil potentials wa	re taken with a CCE			D2: <u>886</u>			
1.5 Soil Posicitivity in Ditch (O arriv							
Method: 4-Pin N/A due	to asphalt and FLX	(.	Soi	Box 5.6 x 10	,000 x 1 = 56.	,000	
1.6 Soil Sample Location:	nts: U/S adap at	3.00					
		0.00.		<b>.</b>	<b>a</b>		
1.7 Ground Water Present?: Ye	s No	Sample(s) Coll	ected?: Yes	No	Sample p	H: <u>N/A</u>	
Comments: No ground water present.	ad Adhess die D			tially Distant	er Desire de l		
1.8 Coating Condition: Go	iou - Aanerea to Pip	be	Fair - Coating Pa	ually Disbonded	or Degraded		
Po	or - Coating Signific	cantly Disbonded	or Missing				
Comments: Coating was found to be i	n good condition, w	ith no holidays o	r disbondment prese	nt.			
1.9 Map of Coating Degradation*:		Z	ero Reference Point	U/S Edge of Ins	spection Area	I	
Note any carcareous deposit locations			Flow				
12 o'clock						1	
							_
9 o'clock							
9 o'clock				_			
9 o'clock	No	Coating Dar	nage Found				
9 o'clock 6 o'clock	No	Coating Dar	nage Found				
9 o'clock 6 o'clock	No	Coating Dar	nage Found	]			
9 o'clock 6 o'clock	No	Coating Dar	nage Found				
9 o'clock 6 o'clock 3 o'clock	No	Coating Dar	nage Found				_
9 o'clock 6 o'clock 3 o'clock	No	Coating Dar	nage Found				
9 o'clock 6 o'clock 3 o'clock	No	Coating Dar	nage Found				

Ex		A/ILI			DA					<u>ILI</u>	
Ex	Route Number	: 191-1		N-Se	gment: 191-	2013		_ ILI	Log Distance	: N/A	
	amination Date	: 5/9/2013	4	IMA N	umber: N/A			RMP-1	1 Ref. Section	: <u>N/A</u>	
vaminatio	Mile Point	: 14.18-14.7	1 ortonson	Bogion N	umbor: 1			- Referer	Ice Girth Weld	I: N/A	
PG&F F	Project Manager	Robert Lide	dicoat	Subregion #				Distance	From Girth weid	. N/A	
IOULI	Approved By	: Brenda Mc	Kav	Stat	ionina: 25+0	0		-			
	Order Number	: 41821294	,	_		•		-			
1.10	Photos Takení	P*: Ye	es No	0							
	Cooting Sampl				Location	of Complex I		ot 12:00			
1.11		e lakenr:			Location		/S euge	e, at 12.00.			
1.12	Liquid Undern	eath Coating	j?:Y€	es No	If Yes, p	H of Liquid: N	/A				
1.13	Corrosion Proc Comments: <u>N</u>	duct Present	roduct presen	es No t.	If Yes, V	/as Sample Ta	aken?:	Ye	s No		
1.14	Soil pH (Sb Ele	ctrode):	Upstream:	6	Downstr	eam: <u>6</u>					
Ω Data Af	ter Coating R	omoval									
<u>- 540 All</u>	Dine Terres		77		N 4		moter	(10), 20.04			
2.1	ripe i emperat	ure (*F): 7			Mea	sured Pipe Di	ameter (	(m.): 20.21			
2.2	Weld Seam Ty	pe:	DSAW	SSAW	ERW	SMLS					
			Spiral	Lap	Flash	AO Sn	nith	If can'	t determine, vis	ually	
23	Girth Weld Cor	ordinates:	-		-			perfor	m macroetch to	locate &	
2.0	Northing: N	/A						identif Eleme	y type (see Tab	ble 5.7.3,	
	Easting: N	/A			-			LIGHT	ant 2.2)		
	Elevation: N	/A			_			Weld Clock	Position: 2:	:45	
2.4	Damage Found	1:			_						
	Corrosion D	amage?	Yes	No	Mech	anical Damag	je?	Yes	No		
	Other Dama	ge: <u>One are</u>	ea of mechani	cal damage was pre	esent with a m	aximum wall l	oss of 2	.4%.			
2.5	UT Wall Thick	ness Measur	ements: TD	C: 0.298"	1 O'clock	0.295"		2 O'clock: 0	).297"	3 O'cloc	ck: 0.302"
			4 O'cloo	ck: 0.296"	5 O'clock	0.297"	_	6 O'alaaki (	204"	7 O'clor	
						01201		BOCIOCK.	0.234	1 0 000	ck: <u>0.297</u> "
			8 O'cloo	ck: <u>0.301"</u>	9 O'clock	0.301"	_	10 O'clock: (	).301"	11 O'cloc	ck: <u>0.297"</u> ck: <u>0.301"</u>
	2.5a Nominal	Vall Thickne	8 O'cloo	ck: <u>0.301"</u> "	9 O'clock	0.301"	_	10 O'clock: (	0.301"	11 O'cloc	ck: <u>0.297"</u> ck: <u>0.301"</u>
	2.5a Nominal	Wall Thickne	8 O'cloo ess: <u>0.3125'</u>	ck: <u>0.301"</u>	9 O'clock	0.301"	_ _	10 O'clock: <u>(</u>	).301"	11 O'cloc	ck: <u>0.297"</u> ck: <u>0.301"</u>
	2.5a Nominal V UT Wall Thickne	Wall Thickne	8 O'cloo ess: <u>0.3125'</u> :00 is required	ck: <u>0.301"</u> " I. Be sure to at	9 O'clock tach grid to F	0.301"	nically.	10 O'clock: <u>(</u> 10 O'clock: <u>(</u> See page 6 c	).301" ).10.	11 O'cloc	ck: <u>0.297"</u> ck: <u>0.301"</u>
2.6	2.5a Nominal V UT Wall Thickne Wet Fluoresce	Wall Thickne ess Grid @ 6: nt Mag. Part.	8 O'cloo ess: <u>0.3125'</u> :00 is required . <b>Is Required.</b>	ck: <u>0.301"</u> " I. Be sure to at Comments:	9 O'clock tach grid to F <u>Magnetic Pa</u>	orm H electron	nically.	10 O'clock: <u>(</u> 10 O'clock: <u>(</u> See page 6 c d by N. Morte	0.301" 0.10. 0f 10.	11 O'cloc 0n 5/9/2013.	ck: <u>0.297"</u> ck: <u>0.301"</u>
2.6	2.5a Nominal V UT Wall Thickne Wet Fluoresce Were there any	<b>Wall Thickne</b> ess Grid @ 6: nt Mag. Part. linear indicat	8 O'cloo ess: <u>0.3125'</u> :00 is required . <b>Is Required.</b> ions?	ck: <u>0.301"</u> " I. Be sure to at Comments:	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Yes	orm H electron article Exam pos attach NDE	nically.	10 O'clock: <u>(</u> 10 O'clock: <u>(</u> See page 6 c d by N. Morte	0.301" of 10. onson (Mears) c	on 5/9/2013.	ck: <u>0.297"</u> ck: <u>0.301"</u>
2.6	2.5a Nominal V UT Wall Thickni Wet Fluoresce Were there any	Wall Thickne ess Grid @ 6: nt Mag. Part. linear indicat	8 O'cloa ess: 0.3125' :00 is required . Is Required. ions?	ck: <u>0.301"</u> . Be sure to at Comments: Yes I	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo	orm H electron article Exam pr s, attach NDE rrt to include b	nically. erforme report e lack ligh	10 O'clock: <u>C</u> See page 6 c d by N. Morte electronically a tt and white li	of 10. onson (Mears) c as part of the F ght photos of in	on 5/9/2013. orm H. ndications.	ck: <u>0.297"</u> ck: <u>0.301"</u>
2.6 2.7	2.5a Nominal 1 UT Wall Thickne Wet Fluoresce Were there any Take Photos to	Wall Thickne ess Grid @ 6: nt Mag. Part. linear indicat	8 O'cloo ess: <u>0.3125'</u> :00 is required. Is Required. ions?	ck: <u>0.301"</u> " I. Be sure to at Comments: Yes I I d Other Anomalies	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Yes Repo	orm H electron article Exam person s, attach NDE art to include b	nically. erforme report e lack ligh	10 O'clock: <u>(</u> See page 6 c d by N. Morte electronically a nt and white li	of 10. of 10. onson (Mears) c as part of the F ght photos of in	n 5/9/2013. orm H. ndications.	ck: <u>0.297"</u> ck: <u>0.301"</u>
2.6 2.7	2.5a Nominal V UT Wall Thickne Wet Fluoresce Were there any Take Photos to *See Photo Log	Nall Thickne ess Grid @ 6: nt Mag. Part. linear indicat Document for additiona	8 O'cloo ess: 0.3125' :00 is required. Is Required. ions? Corrosion an I information.	ck: <u>0.301"</u> . Be sure to at Comments: Yes I I d Other Anomalies	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo	orm H electron nrticle Exam pr s, attach NDE rt to include b	nically. erformer report e lack ligh	10 O'clock: <u>(</u> See page 6 c d by N. Morte electronically <i>i</i> tt and white li	of 10. Inson (Mears) of the F ght photos of in	n 5/9/2013. orm H. ddications.	ck: <u>0.297"</u>
2.6 2.7 2.8	2.5a Nominal V UT Wall Thickne Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map	Nall Thickne ess Grid @ 6: nt Mag. Part. linear indicat o Document for additiona of Corroded	8 O'clor ss: 0.3125' :00 is required . Is Required. ions? Corrosion an I information. Area*:	k: <u>0.301"</u> . Be sure to at Comments: Yes ☐ 1 d Other Anomalies	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo	orm H electron ntticle Exam pr s, attach NDE rt to include b	nically. erformed report e lack ligh	10 O'clock: <u>C</u> See page 6 c d by N. Morte electronically a tt and white li	of 10. inson (Mears) of as part of the F ght photos of in	n 5/9/2013. orm H. idications.	ck: <u>0.297"</u> ck: <u>0.301"</u>
2.6 2.7 2.8	2.5a Nominal V UT Wall Thickne Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth	Nall Thickne ess Grid @ 6: nt Mag. Part. linear indicat o Document for additiona of Corroded Measuremen	8 O'cloo ess: 0.3125' :00 is required. Is Required. ions? Corrosion an Il information. Area*: t Grid for addit	tional Information	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo	orm H electroi nrticle Exam pr s, attach NDE srt to include b	nically. erformer report e lack ligh e Point:	10 O'clock: <u>C</u> See page 6 c d by N. Morte electronically a at and white li	of 10. Inson (Mears) of as part of the F ght photos of in	n 5/9/2013. orm H. Idications.	k: <u>0.301</u> "
2.6 2.7 2.8	2.5a Nominal V UT Wall Thickno Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Nall Thickne ess Grid @ 6: nt Mag. Part. linear indicat Document of for additiona of Corroded Measuremen reous deposi	8 O'clow ess: 0.3125' :00 is required. Is Required. ions? Corrosion an I information. Area*: t Grid for addit its.	i. Be sure to at Comments: Yes ☐ I d Other Anomalies	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo	orm H electron article Exam pr s, attach NDE art to include b	nically. = erforme report e lack ligh e Point	See page 6 c d by N. Morte electronically a th and white li	of 10. of 10. as part of the F ght photos of in	n 5/9/2013. orm H. Idications.	k: <u>0.297</u> " k: <u>0.301</u> "
2.6 2.7 2.8	2.5a Nominal V UT Wall Thickno Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Nall Thickne ess Grid @ 6: nt Mag. Part. linear indicat Document for additiona of Corroded Weasuremen reous deposi	8 O'clow ess: 0.3125' :00 is required. ions? Corrosion an al information. Area*: t Grid for addit its.	tional Information	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo	orm H electron article Exam pr s, attach NDE art to include b	nically. erforme report e lack ligh e Point Flov	See page 6 c d by N. Morte electronically a th and white li	of 10. sinson (Mears) of as part of the F ght photos of in if Inspection Are	n 5/9/2013. orm H. Idications.	k: <u>0.297</u> " k: <u>0.301</u> "
2.6 2.7 2.8	2.5a Nominal 1 UT Wall Thickne Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Nall Thickne ess Grid @ 6: nt Mag. Part. Document for additiona of Corroded Measuremen reous deposi	8 O'clor 255: 0.3125' :00 is required. ions? Corrosion an I information. Area*: t Grid for addit ts. 13	tional Information	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron article Exam pr s, attach NDE art to include b ero Referenc	nically. erforme report e lack ligh e Point Flov	See page 6 c d by N. Morte electronically a nt and white li U/S Edge c	of 10. of 10. of son (Mears) of as part of the F- ght photos of in of Inspection Are 49	n 5/9/2013. orm H. idications.	k: <u>0.297</u> " k: <u>0.301</u> "
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2.6 2.7 2.8	2.5a Nominal 1 UT Wall Thickne Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Nall Thickne ess Grid @ 6: nt Mag. Part. Ilinear indicat Document for additiona of Corroded Measuremen reous deposi	8 O'cloo ess: 0.3125' :00 is required. ions? Corrosion an Il information. Area*: t Grid for addit its.	<pre>ck: 0.301" " " " " " " " " " " " " " " " " " "</pre>	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron article Exam pu s, attach NDE art to include b ero Referenc	nically. erformed report e lack ligh e Point Flow	Colock: <u>c</u> Colock: <u>c</u> See page 6 c     d by N. Morte     electronically a     th and white li     U/S Edge c	of 10. enson (Mears) of as part of the F- ght photos of in of Inspection Are 49 50	11 O'cloc 11 O'cloc orm H. idications. ea 55 56	k: <u>0.297"</u> k: <u>0.301</u> "
2.6 2.7 2.8 12 oʻclo 9 oʻclo	2.5a Nominal 1 UT Wall Thickne Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Nall Thickne ess Grid @ 6: nt Mag. Part. linear indicat Document for additiona of Corroded Measuremen reous deposi	8 O'cloo ess: 0.3125' :00 is required. ions? Corrosion an Il information. Area*: t Grid for addit its.	ck: <u>0.301"</u> " " " " " " " " " " " " " " " " " "	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron article Exam pu s, attach NDE s, attach NDE tri to include b ero Referenc	nically. : erformer report e lack ligh e Point: Flow	So clock: <u>c</u> 10 O'clock: <u>c</u> See page 6 c <u>d by N. Morte</u> electronically a     th and white li <u>U/S Edge c</u> v     43     44     44	0.301" of 10. enson (Mears) of as part of the F- ght photos of in of Inspection Are 49 50	11         O'cloc           11         O'cloc           orm 5/9/2013.         .           orm H.         .           idications.         .           ea         .           55	k: <u>0.297</u> " k: <u>0.301</u> "
2.6 2.7 2.8 12 oʻclo 9 oʻclo	2.5a Nominal N UT Wall Thickne Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Vall Thickne ess Grid @ 6: nt Mag. Part. linear indicat o Document of for additiona of Corroded Measuremen reous deposi	8 O'cloo ess: 0.3125' :00 is required. ions? Corrosion an al information. Area*: t Grid for addit its. 13 14 15	ck: <u>0.301"</u> Be sure to at Comments: YesInd Other Anomalies tional Information 19 25 20 26	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron article Exam pu s, attach NDE art to include b ero Referenc	nically. : erformer report e lack ligh e Point: Flow	So clock. <u>c</u> 10 O'clock: <u>c</u> See page 6 c <u>d by N. Morte</u> electronically a     th and white li <u>U/S Edge c</u> v     43     44     44     44	49 49 49 49 49 49 49 49 49 49 49 49 49 4	11 O'cloc     11 O'cloc     11 O'cloc     0	
2.6 2.7 2.8 12 oʻclo 9 oʻclo	2.5a Nominal N UT Wall Thickne Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca	Vall Thickne ess Grid @ 6: nt Mag. Part. linear indicat o Document of for additiona of Corroded Measuremen reous deposi	8 O'cloo sss: 0.3125' :00 is required. ions? Corrosion an al information. Area*: t Grid for addit its. 13 14 15 16	ck: <u>0.301"</u> Be sure to at Comments: Yes □ 1 d Other Anomalies tional Information 19 25 20 26 21 27 22 28	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron article Exam pu s, attach NDE art to include b ero Referenc	e Point Flov	See page 6 c     d by N. Morte     electronically a     th and white li     U/S Edge c	49 49 2.4% Wall Lo	11 O'cloc 11 O'cloc on 5/9/2013. orm H. dications. ea 55 56 56 56 56 56 56 56 56 56	
2.6 2.7 2.8 12 oʻclo 9 oʻclo 6 oʻclo	2.5a Nominal N UT Wall Thickne Wet Fluoresce Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca pock	Vall Thickne ess Grid @ 6: nt Mag. Part. linear indicat o Document of for additiona of Corroded Measuremen reous deposi	8 O'cloo sss: 0.3125' 00 is required. ions? Corrosion an al information. Area*: t Grid for addit its. 13 14 15 16	ck: <u>0.301"</u> Be sure to at Comments: Yes □ 1 d Other Anomalies tional Information 19 25 20 26 21 27 22 28 24	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	ero Referenc	erformer report e lack ligh Flov	So clock. <u>c</u> 10 O'clock: <u>c</u> See page 6 c <u>d by N. Morte</u> electronically a     th and white li <u>U/S Edge c</u> <u>43</u> <u>44</u> <u>44</u> <u>44</u> <u>44</u>	49 49 50 2.4% Wall Lo chanical Dam	11 O'cloc 11 O'cloc on 5/9/2013. orm H. idications. ea 55 56 56 56 56 56 56 56 56 56	
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2.6 2.7 2.8 12 o'clo 9 o'clo 6 o'clo 3 o'clo	2.5a Nominal N UT Wall Thickne Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca ock	Wall Thickne ess Grid @ 6: nt Mag. Part. linear indicat of corroded Measuremen reous deposi	8 O'clor ss: 0.3125' 00 is required. ions? Corrosion an I information. Area*: t Grid for addit ts. 13 14 15 16 17 17	ck: <u>0.301"</u> " I. Be sure to at Comments: ■ Yes I I ad Other Anomalies tional Information 19 25 20 26 21 27 22 28 23 29 24 27 25 28 24 28 25 28 25 28 26 28 26 28 27 28	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron rrticle Exam pr rticle Exam pr s, attach NDE rt to include b ero Referenc	e Point Flow	Colock: <u>c</u> Colock: <u></u>	2.4% Wall Lo chanical Dam	11 O'cloc 11 O'cloc orn 5/9/2013. orm H. idications. ea 55 56 56 56 56 56 56 56 56 56	
2.6 2.7 2.8 12 o'clo 9 o'clo 6 o'clo 3 o'clo	2.5a Nominal N UT Wall Thickne Were there any Take Photos to *See Photo Log Overview Map *See Pit Depth *Note any calca ock	Wall Thickne ess Grid @ 6: nt Mag. Part. linear indicat of corroded Measuremen reous deposi	8 O'clor ss: 0.3125' 00 is required. ions? Corrosion an I information. Area*: t Grid for addit ts. 13 14 15 16 17 18	ck: 0.301" . Be sure to at Comments: Yes ☐ 1 ad Other Anomalies tional Information 19 25 20 26 21 27 22 28 23 20 24 30	9 O'clock tach grid to F <u>Magnetic Pa</u> No If Ye: Repo * Z	orm H electron     tricle Exam pr     tricle Exam pr     s, attach NDE     tr to include b     ero Referenc     3     3     MD-1     4	e Point Flov	Colock: <u>c</u> Colock: <u></u>	2.4% Wall Lo chanical Dam	11 O'cloc 11 O'cloc orn 5/9/2013. orm H. idications. ea 55 56 56 56 56 56 56 56 56 56	



#### 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):

This site is locate

# Form H: Direct Examination Data Sheet - Page 4 of 10

# EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

DA/LLI         Route Number:       191-1         Examination Date:       5/9/2013         Mile Point:       14.18-14.71         Examination Performed By:       Nicholas Mortenson         PG&E Project Manager:       Robert Liddicoat         Approved By:       Brenda McKay         Order Number:       41821294         Grid Size =       Inch x         Inch (specify grid size)         Clock Position (specify below)         Anomaly #: N/A				e)	DA N-Segment: 191-2013 IMA Number: N/A Region Number: 1 Subregion # (ICDA): N/A Stationing: 25+00			ILI Log Distance: N/A RMP-11 Ref. Section: N/A Reference Girth Weld: N/A Distance From Girth Weld: N/A														
	Anom	aly #: N	/A									Gric	1 #: <u>N//</u>	Ą								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A																						
в																						
C																						
D								ΗN	laxin	num	2.4%	ś Wa	ll Los	ss Du	e							
E									to	Mec	hani	cal D	ama	ge								
F																						
G																						
Н																						
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PIT DEPTH GRID 1 OF 2

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

# EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

DA/ILI Route Number: 191-1 Examination Date: 5/9/2013 Mile Point: 14.18-14.71 Examination Performed By: Nicholas Mortenson PG&E Project Manager: Robert Liddicoat Approved By: Brenda McKay Order Number: 41821294 Grid Size = Inch x Inch (specify grid size)				DA           N-Segment:         191-2013           IMA Number:         N/A           Region Number:         1           Subregion # (ICDA):         N/A           Stationing:         25+00				ILI Log Distance: N/A         RMP-11 Ref. Section: N/A         Reference Girth Weld: N/A         Distance From Girth Weld: N/A														
Clock Position	n (specif	y below	v)	inch (s	pecity	gria siz	e)															
	Anom	aly #: <u> </u>	N/A									Gric	1 #: <u>N/A</u>	4								
l	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
A																						
В																						
С																						
D											2 40/											
E								IV	iaxin to	num Mec	2.4% hani	o wa cal D	ii Los ama	s Du ge	e							
F														<u> </u>								
G																						
н																						
I																						
J																						
к																						
L																						
М																						
Ν																						
0																						
Р																						
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s																						
т																						
	$\vdash$	$\rightarrow$																				
0	$\vdash$																					
V	$\vdash$																					
vv	$\vdash$	-+																				
Х				1											1							

PIT DEPTH GRID 2 OF 2

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

# INTERNAL CORROSION PIT DEPTH GRID

DA	<u>/ILI</u>	D	A	<u>ILI</u>	
Route Number:	191-1	N-Segment:	191-2013	ILI Log Distance: N/A	
Examination Date:	5/9/2013	IMA Number:	N/A	RMP-11 Ref. Section: N/A	
Mile Point:	14.18-14.71			Reference Girth Weld: N/A	
Examination Performed By:	Nicholas Mortenson	Region Number:	1	Distance From Girth Weld: N/A	
PG&E Project Manager:	Robert Liddicoat	Subregion # (ICDA):	N/A		
Approved By:	Brenda McKay	Stationing:	25+00		
Order Number:	41821294				
		_			

Grid Size = 1 Inch x 1 Inch Clock Position (specify below)

UT Data in Inches

	8'0" fro	m U/S E	dge									
	1	2	3	4	5	6	7	8	9	10	11	12
A	0.303	0.303	0.302	0.302	0.302	0.304	0.303	0.301	0.300	0.300	0.302	0.301
В	0.302	0.301	0.302	0.302	0.302	0.301	0.302	0.302	0.302	0.301	0.302	0.302
С	0.302	0.301	0.302	0.302	0.303	0.301	0.301	0.301	0.303	0.301	0.302	0.304
D	0.303	0.303	0.302	0.302	0.302	0.302	0.302	0.304	0.301	0.302	0.302	0.302
E	0.304	0.303	0.303	0.304	0.301	0.303	0.301	0.304	0.303	0.302	0.302	0.302
F	0.302	0.304	0.303	0.302	0.301	0.303	0.302	0.303	0.303	0.301	0.303	0.301
G	0.302	0.303	0.302	0.301	0.302	0.303	0.301	0.303	0.301	0.301	0.301	0.304
н	0.301	0.301	0.302	0.301	0.301	0.301	0.301	0.303	0.302	0.302	0.301	0.304
I	0.300	0.302	0.301	0.301	0.301	0.301	0.304	0.304	0.301	0.302	0.303	0.303
J	0.304	0.304	0.303	0.301	0.300	0.301	0.301	0.301	0.302	0.301	0.301	0.302
К	0.304	0.306	0.305	0.306	0.304	0.305	0.306	0.307	0.303	0.302	0.302	0.301
L	0.301	0.302	0.303	0.302	0.303	0.304	0.304	0.305	0.303	0.304	0.304	0.301

6:00

INTERNAL CORROSION GRID 1 of 1

#### COATING DAMAGE

<u>DA/ILI</u>			A	<u>ILI</u>		
Route Number:	191-1	N-Segment:	191-2013	ILI Log Distance:	N/A	
Examination Date:	5/9/2013	IMA Number:	N/A	RMP 11 Ref. Section:	N/A	
Mile Point:	14.18-14.71	-		Reference Girth Weld:	N/A	
Examination Performed By:	Nicholas Mortenson	Region Number:	1	Distance From Girth Weld:	N/A	
PG&E Project Manager:	Robert Liddicoat	Subregion # (ICDA):	N/A	-		
Approved By:	Brenda McKay	Stationing:	25+00			
Order Number:	41821294					

NO.	FEET FROM	O'CLOCK	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
			No Coating Damage Found	
	ł			

# Form H: Direct Examination Data Sheet - Page 8 of 10

# CORROSION LOG

DA	<u>/ILI</u>	<u> </u>	A	Ш	<u>ILI</u>		
Route Number:	191-1	N-Segment:	191-2013	ILI Log Distance:	N/A		
Examination Date:	5/9/2013	IMA Number:	N/A	RMP-11 Ref. Section:	N/A		
Mile Point:	14.18-14.71	-		Reference Girth Weld:	N/A		
Examination Performed By:	Nicholas Mortenson	Region Number:	1	Distance From Girth Weld:	N/A		
PG&E Project Manager:	Robert Liddicoat	Subregion # (ICDA):	N/A				
Approved By:	Brenda McKay	Stationing:	25+00				
Order Number:	41821294	_					

IC or EC	FEET FROM REFERENCE	O'CLOCK	MAX PIT DEPTH (MILS)	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
MD-1	4'8"	4:00	7	24	0.5
		N	/laximum 2.4% Wall Loss	Due	
			to Mechanical Damage	2	

#### PHOTO LOG

# DA/ILI Route Number: 191-1 Examination Date: 5/9/2013 DA N-Segment: 191-2013 IMA Number: N/A Mile Point: 14.18-14.71 Examination Performed By: Nicholas Mortenson PG&E Project Manager: Robert Liddicoat Approved By: Brenda McKay Order Number: 41821294 Subregion # (ICDA): N/A Stationing: 25+00

Region Number: 1

ILI ILI Log Distance: N/A RMP-11 Ref. Section: N/A Reference Girth Weld: N/A Distance From Girth Weld: N/A

PHOTO NO.	LOCATION	DESCRIPTION	COMMENTS
1	Facing North	Site Prior to Excavation	
2	Facing East	Site Prior to Excavation	
3	Facing South	Site Prior to Excavation	
4	Facing West	Site Prior to Excavation	
5	12:00, Facing D/S	Existing Coating	НАА
6	3:00, Facing D/S	Existing Coating	
7	6:00, Facing D/S	Existing Coating	
8	9:00, Facing D/S	Existing Coating	
9	12:00, Facing U/S	Existing Coating	
10	3:00, Facing U/S	Existing Coating	
11	6:00, Facing U/S	Existing Coating	
12	9:00, Facing U/S	Existing Coating	
13	12:00, Facing D/S	Coating Removed	
14	3:00, Facing D/S	Coating Removed	
15	6:00, Facing D/S	Coating Removed	
16	9:00, Facing D/S	Coating Removed	
17	12:00, Facing U/S	Coating Removed	
18	3:00, Facing U/S	Coating Removed	
19	6:00, Facing U/S	Coating Removed	
20	9:00, Facing U/S	Coating Removed	
21	8:30, 0'3.25" from U/S Edge	MT Test - Linear Indication, LI-1	Pipe information
22	8:30, 0'3.25" from U/S Edge	MT Test - Linear Indication, LI-1	White Light
23	8:35, 0'8" from U/S Edge	MT Test - Linear Indication, LI-2	Pipe information
24	8:35, 0'8" from U/S Edge	MT Test - Linear Indication, LI-2	White Light
25	8:25, 1'5" from U/S Edge	MT Test - Linear Indication, LI-3	Pipe information/ White Light
26	8:30, 1'7" from U/S Edge	MT Test - Linear Indication, LI-4	Pipe information/ White Light
27	8:20, 1'8.5" from U/S Edge	MT Test - Linear Indication, LI-5	White Light
28	8:20 - 8:40, 1'8.5" to 2'8" from U/S Edge	MT Test - Linear Indications LI-5, LI-6 and LI-8	Pipe information/ White Light
29	8:40 - 8:45, 2'8" from U/S Edge	MT Test - Linear Indications LI-7 and LI-8	Pipe information/ White Light
30	7:30, 2'1" from U/S Edge	MT Test - Linear Indication, LI-11	Pipe information/ White Light
31	7:30 - 7:35, 2'11" to 3'8" from U/S Edge	MT Test - Linear Indications LI-11, LI-12 and LI-13	Pipe information/ White Light
32	8:20 - 8:45, 3'2" to 4'11" from U/S Edge	MT Test - Linear Indication, LI-9, LI-10, LI-14, LI-15	Pipe information/ White Light
33	8:20, 4'11" from U/S Edge	MT Test - Linear Indication, LI-15	Pipe information/ White Light
34	8:20, 6'8" from U/S Edge	MT Test - Linear Indication, LI-16	Pipe information/ White Light
35	10:00, 5'9" from U/S Edge	MT Test - Linear Indication, LI-17	Pipe information/ White Light
36	8:20, 6'8" from U/S Edge	MT Test - Linear Indication, LI-16	Pipe information/ White Light
37	8:30, 11'0" to 11'3" from U/S Edge	MT Test - Linear Indications LI-18 and LI-19	Pipe information/ White Light
38	2:45, 8'5" from U/S Edge	Weld Indication-1	Pipe Information
39	4:00, 4'8" from U/S Edge	MD-1	Pipe information/ White Light
40	8:30, 0'3.25" from U/S Edge	MT Test - Linear Indication, LI-1	Black light

#### PHOTO LOG

#### DA/ILI Route Number: 191-1 Examination Date: 5/9/2013 Mile Point: 14.18-14.71 Examination Performed By: Nicholas Mortenson PG&E Project Manager: Robert Liddiccat Approved By: Brenda McKay Order Number: 41821294

DA N-Segment: 191-2013 IMA Number: N/A

Region Number: 1 Subregion # (ICDA): N/A Stationing: 25+00 ILI Log Distance: N/A
RMP-11 Ref. Section: N/A
Reference Girth Weld: N/A
Distance From Girth Weld: N/A

рното LOCATION DESCRIPTION COMMENTS NO. 8:35, 0'8" from U/S Edge 41 MT Test - Linear Indication, LI-2 Black Light 42 8:25, 1'5" from U/S Edge MT Test - Linear Indication, LI-3 Black Light 43 8:30, 1'7" from U/S Edge MT Test - Linear Indication, LI-4 Black Light 44 8:20, 1'8.5" from U/S Edge MT Test - Linear Indication, LI-5 Black Light MT Test - Linear Indication, LI-6 8:20, 2'4" from U/S Edge 45 Black Light MT Test - Linear Indication, LI-9 8:45, 3'2" from U/S Edge 46 Black Light 8:40 - 8:45, 2'8" from U/S Edge 47 MT Test - Linear Indications LI-7 and LI-8 Black Light 48 8:30, 3'8" from U/S Edge MT Test - Linear Indication, LI-10 Black Light 49 7:320. 2'1" from U/S Edge MT Test - Linear Indication, LI-11 Black Light 7:30, 3'8" from U/S Edge MT Test - Linear Indication, LI-13 Black Light 50 51 7:35, 3'4" from U/S Edge MT Test - Linear Indication, LI-12 Black Light 8:20, 4'1" from U/S Edge MT Test - Linear Indication, LI-14 52 Black Light 53 8:20, 4'11" from U/S Edge MT Test - Linear Indication, LI-15 Black Light 54 8:20, 6'8" from U/S Edge MT Test - Linear Indication, LI-16 Black Light 55 10:00, 5'9" from U/S Edge MT Test - Linear Indication, LI-17 Black Light 8:30, 11'0" to 11'3" from U/S Edge MT Test - Linear Indications LI-18 and LI-19 Black Light 56 8:30 - 8:35, 0'3.25" to 0'8" from U/S Edge MT Test - Linear Indications LI-1 and LI-2 57 Indication Removed MT Test - Linear Indications LI-3 and LI-4 58 8:25 - 8:30, 1'5" to 1'7" from U/S Edge Indication Removed 59 8:20, 1'8.5" from U/S Edge MT Test - Linear Indication, LI-5 Indication Removed 60 8:20, 2'4" from U/S Edge MT Test - Linear Indication, LI-6 Indication Removed 61 3:45, 2'8" from U/S Edge MT Test - Linear Indication, LI-7 Indication Removed Indication Removed 8:20 - 8:40, 2'4" to 2'8" from U/S Edge MT Test - Linear Indications LI-6 and LI-8 62 7:30 - 7:35, 2'11" to 3'8" from U/S Edge 63 MT Test - Linear Indications LI-11, LI-12 and LI-13 Indication Removed 7:30 - 7:35, 2'11" to 3'8" from U/S Edge MT Test - Linear Indications LI-11, LI-12 and LI-13 Indication Removed 64 Indication Removed 65 8:30 - 8:45, 3'2" to 3'11.5" from U/S Edge MT Test - Linear Indications LI-9, LI-10 and LI-14 66 8:20, 4'11" from U/S Edge MT Test - Linear Indication, LI-15 Indication Removed 67 10:00, 5'9" from U/S Edge MT Test - Linear Indication, LI-17 ndication Removed 10:00, 5'9" from U/S Edge MT Test - Linear Indication, LI-17 68 Indication Removed 69 8:20, 6'8" from U/S Edge MT Test - Linear Indication, LI-16 Indication Removed 70 8:30, 11'0" to 11'3" from U/S Edge MT Test - Linear Indications LI-18 and LI-19 Indication Removed MT Test - Linear Indications LI-18 and LI-19 8:30, 11'0" to 11'3" from U/S Edge Indication Removed 71 72 4:00, 4'8" from U/S Edge MD-1 Mechanical damage removed 73 Overview Media Blasted Pipe Before Recoat 74 12:00, at D/S Edge Test Wires Installed with CAD Welds 12:00, Facing D/S Pipe Recoated Protal 7200 75 3:00, Facing D/S 76 Pipe Recoated 77 6:00, Facing D/S Pipe Recoated 78 9:00, Facing D/S Pipe Recoated 12:00, Facing U/S 79 Pipe Recoated 80 3:00, Facing U/S Pipe Recoated

#### PHOTO LOG

# DA/ILI Route Number: 191-1 Examination Date: 5/9/2013 Mile Point: 14.18-14.71 Examination Performed By: Nicholas Mortenson PG&E Project Manager: Robert Liddicoat Approved By: Brenda McKay Order Number: 41821294 Subregion # (ICDA): N/A Stationing: 25+00

DA N-Segment: 191-2013 IMA Number: N/A Region Number: 1

ILI ILI Log Distance: N/A RMP-11 Ref. Section: N/A Reference Girth Weld: N/A Distance From Girth Weld: N/A

PHOTO NO.	LOCATION	DESCRIPTION	COMMENTS
81	6:00, Facing U/S	Pipe Recoated	Protal 7200
82	9:00, Facing U/S	Pipe Recoated	
83	12:00, at U/S Edge	Wax Taped Transition	
84	12:00, at D/S Edge	Wax Taped Transition	
85	Overview	Coating Protection Applied	Tuff-N-Nuff
86	Overview	Backfill in Progress	Soil Compaction
87	9:00, at D/S Edge	Coupon Test Station Installed	
88	Facing South	Backfill in Progress	Native Soil
89	Facing North	Site As Left	
90	Facing East	Site As Left	
91	Facing South	Site As Left	
92	Facing West	Site As Left	

Form H: Dire	ect Examination Data Sheet - Pag	ge 10 of 10				
	<u>DA/ILI</u>	DA		<u>ILI</u>		
Route Number: 191-1		N-Segment: 191-2013	ILI Log Distan	ILI Log Distance: N/A		
Exa	mination Date: 5/9/2013	IMA Number: N/A	RMP-11 Ref. Section			
Eveninetion	Mile Point: 14.18-14.71	Bagion Number 1	Reference Girth We			
PG&F Pr	oject Manager: Robert Liddicoat	Subregion # (ICDA): N/A				
1 GGE 11	Approved By: Brenda McKay	Stationing: 25+00				
	Order Number: 41821294					
3.0 Recoat D	)ata					
0.0 11000001 2	<u></u>					
3.1 \$	Sandblast Media: Kleen Blast 30/60	Ar	ichor Profile Measurement: 3.6 mils			
3.2 F	Pipe Recoated With:					
Г	Powercrete J Wax Tape	Bar-Rust 235 Dev	Grip 238 Dev Tar 247 F	Protal 7200 PE Tape		
22 5						
3.3 F	Air Temperature: 60.5°F	Environmental Condition.	Dew Point: 50.0°F			
	Pipe Temperature: 64.5°F	Relative	e Humidity: 68.0%			
	Time of Day: 7:45 AM		<u></u>			
34 6	Renair Coating Hardness (If ARC Coa	ting:) 85				
0.4 1		ung.) <u>00</u>				
3.5	Measured Coating Thickness: 3:00	- <u>31 mils</u> 6:00 - <u>36 mil</u>	s 9:00 - 40 mils	12:00 - 26 mils		
ŀ	Holiday Tested?: Yes	No				
Γ	Device Used: Coil	Wet Sponge Voltage Used: 2,	500V Repair All Ho	lidays.		
3.6 0	Coupon Test Station Installed?:	Yes No ETS Inst	alled?: Yes No			
ľ	f Yes, Date Installed: 5/15/2013					
c	Surface Configuration: Eink	G-5 Box Carsonite	Other			
3.7						
(	Coating Protections?: Yes	No				
l	f Yes, Check One: Rockguan	d Tuff-N-Nuff PipeSav	/er Other:			
3.8 F	Pipe-to-Soil Readings Over Bell Hole	After Backfill: -999mV				
*	If specified, a CIS should be done for a	pproximately 100' on either side of the b	ell hole. Attach data.			
C	Comments: Pipe-to-Soil potentials wei	e taken with a CSE.				
-						
_						
3.9 A	Attach site sketch of excavation site.					
4.0 Repair D	ata					
4.1 F	Repair Made: Yes No	4.1 Number of Repairs Made	N/A			
13 6			aplace Can Filler Metal	Other		
4.0 1						
4.4 [	Damage Repaired: Corrosion	Mechanical Oth	er			
Misc. Comme	nts/Information: The site is located	on the property of		he soil consists of		
rock and loam.	The site was mostly hand dug due to F	LX running through the site. The existing	HAA coating was found to be in good con	dition with no holidays or		
disbondment p	resent. Coating was then removed and	the pipe was inspected for corrosion or a	any other anomalies prior to media blast. Th	e pipe was sandblasted		
ATS also porto	st 30/60 media. A wet fluorescent Magn	etic Particle Exam was performed finding	19 Inear Indications, all Indications were r	emoved by Fred (ATS).		
pipe inspection	there was one area of mechanical dam	age found. This area was very shallow a	and was removed from the pipe surface with	h less than 0.010" wall		
removed. The	pipe was then media blasted and test le	ads were attached to pipe at the D/S ed	ge with CAD welds. The pipe was recoated	using Protal 7200. After		
coating had cu	red, hardness and thickness were meas	ured and coating was holiday tested. W	ax Tape was applied to the coating transitic	ons. Tuff-N-Nuff was then		
applied for add	itional coating protection. A coupon test	station and reference cell were installed	at the D/S edge. The site was backfilled w	ith native soil and site was		
restored on 05/	/15/2013.					
Mears Job Nur	nber: 9101323013					
			· · · · · · · · · · · · · · · · · · ·			

Form	H:	Site	Map
		00	map

 DA/LI
 DA
 LI

 Route Number:
 191-1
 N-Segment:
 191-2013
 ILI Log Distance:
 N/A

 Examination Date:
 5/9/2013
 IMA Number:
 N/A
 RMP-11 Ref. Section:
 N/A

 Mile Point:
 14.18-14.71
 Region Number:
 1
 Distance From Girth Weld:
 N/A

 PG&E Project Manager:
 Robert Liddicoat
 Subregion # (ICDA):
 N/A
 Distance From Girth Weld:
 N/A

 Approved By:
 Brenda McKay
 Stationing:
 25+00
 \*Sketch Not Drawn to Scale

Misc. Comments/Information About Area Surrounding Ditch:

This site is located o

	Form H: Direct Ex	MAGi	NETIC PARTICLE I	EXAMINATION DATA	A SHEET (1)	
	<u>DA/</u>			<u>DA</u>		<u>ILI</u>
	Route Number:	191-1	N-Segme	nt: 191-2013	ILI Log Dist	
	Examination Date:	5/9/2013 14 19 14 71	- IMA Numbe	er: N/A	RMP-11 Ref. Sec	
Evamina	while Point.	Nicholas Mortenson	Pegion Numb	ar: 1	Distance From Girth	
PG&	E Project Manager:	Robert Liddicoat	Subregion # (ICD)	A): N/A		
	Approved By:	Brenda McKay	Stationir	ig: 25+00		
	Order Number:	41821294	-	<u> </u>		
	-		-			
Tes	st Equipment	Serial No.	Technique	Test Medium	Quality Control	Surface Condition
	Yoke	11630	Continuous	Wet	Batch # 07J052	As Blasted NACE 2
Perma	nent Magnet		Residual	Dry	Batch #	Bare Metal
r cima						
			AC	Fluorescent	Batch # 07J052	As Ground
	Other		DC	Black on White	Batch #	Painted
						Other (Walnut Blasted)
	Reference GPS	U/S Edae	Accer	tance Criteria: No ind	ications allowed	
	Northing	o/o Eugo	1000			
	Fasting			Accepted?	ino, see rable be	elow.
	Easting					
N	Ap of Magnetic Pa			Zero Reference P	oint: U/S Edge of Inspection	n Area
					Flow ———	
12:00		11.0				
			LI-7 LI-9	.I-14 LI-17		
					LI-18	
9:00				11-1	5	
	LI-1				<u> </u>	
				U-1	6	
6:00					<u> </u>	
	LI-	2 / LI-6	LI-10	LI-13		11-19
3.00						
3.00		LI-4				
12:00			-11			
Feet:		0 1.2 2.4	3.6 4.8	6 7.2	8.4 9.6 10.8	12
Table						
		Circumferential	lu dia ati au			
Ind No.	Avial Desition	Circumerential	Indication	Wall Thicknes	s Wall Thickness	Indication
Ind No.	Axial Position	Position	Length	Wall Thicknes before Softpa	s Wall Thickness d after Final Softpa	Indication d Removed (Yes, No)
Ind No.	Axial Position	Position 8:30	Length	Wall Thicknes before Softpa 0.297"	S Wall Thickness d after Final Softpa	Indication Removed (Yes, No)
LI-1	Axial Position 0'3.25''	Position 8:30	Length	0.297"	S Wall Thickness d after Final Softpa 0.291"	Indication Removed (Yes, No) Yes
LI-1 LI-2	Axial Position 0'3.25'' 0'8"	Position           8:30           8:35	Length 4"	0.296"	S Wall Thickness d after Final Softpa 0.291" 0.291"	Indication Removed (Yes, No) Yes Yes
LI-1 LI-2 LI-3	Axial Position 0'3.25" 0'8" 1'5"	Position           8:30           8:35           8:25	4" 4" 2"	Wall I hicknes           before Softpar           0.297"           0.296"           0.294"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.291"         0.291"	Indication Removed (Yes, No) Yes Yes Yes
Ind No. LI-1 LI-2 LI-3	Axial Position 0'3.25" 0'8" 1'5" 1'5"	Circumerential           Position           8:30           8:35           8:25           8:30	4" 4" 2"	Wall I hicknes           before Softpar           0.297"           0.296"           0.294"           0.299"	S Wall Thickness d after Final Softpa 0.291" 0.290" 0.290"	Indication Removed (Yes, No) Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4	Axial Position 0'3.25" 0'8" 1'5" 1'7"	Circumerential           Position           8:30           8:35           8:25           8:30	4" 4" 2" 2"	Wall I hicknes           before Softpar           0.297"           0.296"           0.294"           0.299"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"	Indication Removed (Yes, No) Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5"	Circumerential           Position           8:30           8:35           8:25           8:30           8:25           8:30	4" 4" 2" 2" 3.5"	Wall Thicknes           before Softpar           0.297"           0.296"           0.294"           0.299"           0.299"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.291"         0.291"           0.290"         0.290"           0.290"         0.284"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4"	Bis         Bis <td>4" 4" 2" 2" 3.5" 1"</td> <td>Wall Thicknes           before Softpar           0.297"           0.296"           0.294"           0.299"           0.299"           0.299"           0.300"</td> <td>S         Wall Thickness after Final Softpa           0.291"         0.291"           0.291"         0.291"           0.290"         0.290"           0.290"         0.284"           0.289"         0.289"</td> <td>Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes</td>	4" 4" 2" 2" 3.5" 1"	Wall Thicknes           before Softpar           0.297"           0.296"           0.294"           0.299"           0.299"           0.299"           0.300"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.291"         0.291"           0.290"         0.290"           0.290"         0.284"           0.289"         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes
Ind No. Ll-1 Ll-2 Ll-3 Ll-4 Ll-5 Ll-6 Ll-6 Ll-7	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8"	Circumerential           Position           8:30           8:35           8:35           8:30           8:25           8:30           8:20           8:20           8:20           8:45	Indication           Length           4"           2"           2"           3.5"           1"           1"	Wall I hicknes           before Softpa           0.297"           0.296"           0.294"           0.299"           0.299"           0.299"           0.300"           0.296"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.291"         0.290"           0.290"         0.290"           0.290"         0.284"           0.289"         0.283"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-7	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8"	Circumerential           Position           8:30           8:35           8:35           8:30           8:25           8:30           8:20           8:20           8:45	A"           4"           2"           2"           3.5"           1"           1"	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.300"           0.296"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.289"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8"	Circumerential           Position           8:30           8:35           8:35           8:25           8:30           8:20           8:20           8:45           8:40	Indication           Length           4"           2"           2"           3.5"           1"           1.5"	Wall Thicknes           before Softpar           0.297"           0.296"           0.294"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2"	Circumerential           Position           8:30           8:35           8:25           8:30           8:25           8:20           8:20           8:45           8:45	Indication           Length           4"           2"           2"           3.5"           1"           1.5"           3"	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'2" 3'8"	Circumerential           Position           8:30           8:35           8:25           8:30           8:20           8:20           8:45           8:45           8:30	Indication           Length           4"           2"           2"           3.5"           1"           1.5"           3"           3"	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"           0.293"         0.293"           0.292"         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8"	Circumerential           Position           8:30           8:35           8:25           8:30           8:20           8:20           8:45           8:45           8:30	A"           4"           2"           2"           3.5"           1"           1.5"           3"           3"	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes:	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa	Circumerential           Position           8:30           8:35           8:25           8:30           8:20           8:20           8:45           8:45           8:30	Indication           Length           4"           2"           2"           3.5"           1"           1.5"           3"           3"           Innear indications, all interval	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential           Position           8:30           8:35           8:25           8:30           8:20           8:20           8:45           8:45           8:30	Indication           Length           4"           2"           2"           3.5"           1"           1.5"           3"           3"           linear indications, all in	Wall I hicknes           before Softpa           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.289"         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa	Circumerential         Position         8:30         8:35         8:25         8:30         8:20         8:20         8:45         8:45         8:30         8:45         8:30         8:45         8:30         8:45         8:30         m was performed finding 19         e pipe and appear to be mill	Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all in marks or manufacturin	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.284"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.289"         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential       Position       8:30       8:35       8:35       8:25       8:20       8:20       8:20       8:45       8:45       8:45       8:30	Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all in marks or manufacturin	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.283"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential       Position       8:30       8:35       8:35       8:25       8:20       8:20       8:45       8:45       8:45       8:30	Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all ii marks or manufacturin	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.283"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential       Position       8:30       8:35       8:35       8:25       8:20       8:20       8:45       8:45       8:30       8:45       8:30	Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all ii marks or manufacturin	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.283"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential       Position       8:30       8:35       8:25       8:30       8:20       8:20       8:45       8:45       8:30       m was performed finding 19       e pipe and appear to be mill	Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all ii marks or manufacturin	Wall Thickness before Softpare           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.293"         0.293"           0.292"         0.289"           1         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential       Position       8:30       8:35       8:35       8:25       8:20       8:20       8:45       8:45       8:45       8:30	Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all ii marks or manufacturin	Wall Thickness before Softpare           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.293"         0.293"           0.292"         0.289"           1         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No. LI-1 LI-2 LI-3 LI-4 LI-5 LI-6 LI-7 LI-8 LI-9 LI-10 Notes: were in the	Axial Position 0'3.25" 0'8" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential       Position       8:30       8:35       8:35       8:25       8:30       8:20       8:20       8:45       8:45       8:45       8:30	Length 4" 4" 2" 2" 2" 3.5" 1" 1.5" 3" 3" linear indications, all ii marks or manufacturin	Wall Thickness before Softpare           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.293"         0.293"           0.292"         0.289"           1         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No.	Axial Position  0'3.25"  0'8"  1'5"  1'5"  1'7"  1'8.5"  2'4"  2'8"  2'8"  3'2"  3'8"  Magnetic Particle Exa  8:00 - 9:00 area of th  1000 1000  1000 1000  1000 1	Circumerential Position         8:30         8:35         8:35         8:25         8:30         8:20         8:20         8:45         8:45         8:30         8:45         8:30         m was performed finding 19         e pipe and appear to be mill	Indication Length 4" 4" 2" 2" 2" 3.5" 1" 1.5" 3" 3" 3" 3" 1inear indications, all ii marks or manufacturin	Wall Thickness           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.292"         0.289"           1         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No.           LI-1           LI-2           LI-3           LI-4           LI-5           LI-6           LI-7           LI-8           LI-9           LI-10           Notes:           were in the	Axial Position 0'3.25" 0'8" 1'5" 1'7" 1'8.5" 2'4" 2'8" 2'8" 3'2" 3'8" Magnetic Particle Exa 8:00 - 9:00 area of th	Circumerential Position         8:30         8:35         8:35         8:25         8:30         8:20         8:20         8:45         8:45         8:30         8:45         8:30         m was performed finding 19         e pipe and appear to be mill	Indication Length 4" 4" 2" 2" 3.5" 1" 1" 1.5" 3" 3" 3" 2 linear indications, all ii marks or manufacturin	Wall Thicknes           before Softpar           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"           0.298"           0.298"           0.298"           0.298"           0.298"           0.298"           0.298"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.292"         0.293"           0.292"         0.289"           1         0.289"           1         0.289"	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No.           LI-1           LI-2           LI-3           LI-4           LI-5           LI-6           LI-7           LI-8           LI-9           LI-10           Notes:           were in the           The exami	Axial Position  0'3.25"  0'8"  1'5"  1'7"  1'8.5"  2'4"  2'8"  2'8"  3'2"  3'8"  Magnetic Particle Exa  8:00 - 9:00 area of th  ination above was per hnician's Signature:		Indication Length 4" 4" 2" 2" 3.5" 1" 1" 1.5" 3" 3" 3" 2 linear indications, all ii marks or manufacturin	Wall Thickness before Softpare           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.292"         0.289"           1 by means of buffing. The maj         0.289"           stype="background-color: blue;">rs MPE-01.	Indication       Removed (Yes, No)       Yes
Ind No.           LI-1           LI-2           LI-3           LI-4           LI-5           LI-6           LI-7           LI-8           LI-9           LI-10           Notes:           were in the           The exami           Tech	Axial Position           0'3.25"           0'8"           1'5"           1'7"           1'8.5"           2'4"           2'8"           3'2"           3'8"           Magnetic Particle Exa           8:00 - 9:00 area of th           ination above was per           hnician's Signature:	Circumerential     Position     8:30     8:35     8:25     8:30     8:20     8:20     8:45     8:45     8:40     8:45     8:30 m was performed finding 19 e pipe and appear to be mill  rformed to the best of my Nicholas Mortenson	Indication Length 4" 4" 2" 2" 3.5" 1" 1" 1.5" 3" 3" 3" 2 linear indications, all ii marks or manufacturin	Wall Thickness before Softpare         0.297"         0.296"         0.299"         0.299"         0.299"         0.299"         0.299"         0.296"         0.296"         0.296"         0.296"         0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.292"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.289"         0.289"           I by means of buffing. The maj         0.289"           rs MPE-01.         El: Level II - Limited	Indication Removed (Yes, No)       Yes       Yes    <
Ind No.           LI-1           LI-2           LI-3           LI-4           LI-5           LI-6           LI-7           LI-8           LI-9           LI-10           Notes:           were in the           The exami           Tech	Axial Position  0'3.25"  0'8"  1'5"  1'7"  1'8.5"  2'4"  2'8"  2'8"  3'2"  3'8"  Magnetic Particle Exa  8:00 - 9:00 area of th  ination above was per hnician's Signature: Assistant:	Circumerential     Position     8:30     8:35     8:25     8:30     8:20     8:20     8:45     8:45     8:40     8:45     8:30 m was performed finding 19 e pipe and appear to be mill  rformed to the best of my Nicholas Mortenson	Indication Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" 3" 1inear indications, all ii marks or manufacturin	Wall Thickness before Softpare         0.297"         0.296"         0.299"         0.299"         0.299"         0.299"         0.299"         0.296"         0.296"         0.296"         0.296"         0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.293"         0.293"           0.292"         0.293"           0.292"         0.289"           1 by means of buffing. The maj         0.289"           stype="background-color: blue;">I by means of buffing. The maj	Indication Removed (Yes, No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes
Ind No.           LI-1           LI-2           LI-3           LI-4           LI-5           LI-6           LI-7           LI-8           LI-9           LI-10           Notes:           were in the	Axial Position           0'3.25"           0'8"           1'5"           1'7"           1'8.5"           2'4"           2'8"           3'2"           3'8"           Magnetic Particle Exa           8:00 - 9:00 area of th           ination above was per           hnician's Signature:           Assistant:	Circumerential     Position     8:30     8:35     8:35     8:25     8:30     8:20     8:45     8:40     8:45     8:40     8:45     8:30 m was performed finding 19 e pipe and appear to be mill  rformed to the best of my Nicholas Mortenson	Indication Length 4" 4" 2" 2" 3.5" 1" 1.5" 3" 3" 3" 3" 1inear indications, all ii marks or manufacturin	Wall Thickness before Softpare           0.297"           0.296"           0.299"           0.299"           0.299"           0.299"           0.299"           0.296"           0.296"           0.296"           0.296"           0.298"	S         Wall Thickness after Final Softpa           0.291"         0.291"           0.290"         0.290"           0.290"         0.290"           0.284"         0.289"           0.293"         0.293"           0.292"         0.293"           0.292"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.293"         0.293"           0.289"         0.289"           I by means of buffing. The maj         Image: Comparison of the state of the stat	Indication Removed (Yes, No)         Yes         Ority of the indications         Date:       05/09/13         Date:

me <mark>ars</mark>		MAG	NETIC PARTICLE E		A SHEE	T (2)	
	Route Number: 19	<u>.</u> )1-1	N-Segment	: 191-2013		ILI Log Distar	nce: N/A
	Examination Date: 5/	9/2013	IMA Number	: N/A		RMP-11 Ref. Sect	ion: N/A
	Mile Point: 14	1.18-14.71	-			Reference Girth W	eld: N/A
Examinat	tion Performed By: Ni	cholas Mortenson	Region Number	: 1		Distance From Girth W	/eld: N/A
PG&E	E Project Manager: Ro	obert Liddicoat	Subregion # (ICDA)	: N/A			
	Approved By: Br	enda McKay	Stationing	25+00			
	Order Number: 41	821294	-				
Test	t Equipment	Serial No.	Technique	Test Medium	Qua	lity Control	Surface Condition
	Yoke	11630	Continuous	Wet	Batch #	07J052	As Blasted NACE 2
Perman	ent Magnet		Residual	Dry	Batch #		Bare Metal
	Coil		AC	Fluorescent	Batch #	07J052	As Ground
	Other		DC B	lack on White	Batch #		Painted
		·		<b>.</b>			Other (Walnut Blasted)
	Reference GPS: U/	/S Edge	Accepta	ance Criteria: No ind	lications a		
	Northin			Accepted?	res	No, See Table belo	DW.
M	ap of Magnetic Partic	le Indications:		Zero Reference P	oint: U	/S Edge of Inspection	Area
					I I	Flow —	•••••
2:00		LI-8 \	11.7				
				-14 LI-17			
9:00		LI-5			-	LI-18	
	LI-1				.5		
8:00				U-1	.6		
				LI-13			
	LI-Z					L	I-19
3:00							
2:00			-11				
eet:		0 1.2 2.4	4 3.6 4.8	6 7.2	8.4	9.6 10.8	12
able							
Ind No.	Axial Position	Circumferential	Indication	Wall Thicknes	s	Wall Thickness	Indication
	014.4	Position	Length		u	after Final Softpad	Removed (res, No)
LI-11	2'11"	7:30	2"	0.297"		0.294"	Yes
LI-12	3'4''	7:35	1"	0.295"		0.291"	Yes
LI-13	3'8"	7:30	1"	0.296"		0.294"	Yes
LI-14	3'11.5"	8:35	3"	0.301"		0.293"	Yes
LI-15	4'11''	8:20	1"	0.296"		0.294"	Yes
LI-16	6'8''	8:20	1"	0.297"		0.292"	Yes
LI-17	5'9"	10:00	5"	0.298"		0.295"	Yes
LI-18	11'0"	8:30	2"	0.305"		0.294"	Yes
LI-19	11'3"	8:30	5"	0.297"		0.293"	Yes
Notes: N	Agenetic Particle Exam	was performed finding 19	linear indications all inc	lications were removed	1 by mean	s of buffing. The major	ity of the indications
ere in the	8:00 - 9:00 area of the	pipe and appear to be mill	marks or manufacturing	marks.	a by moun	e er samngr majer	
ne examir	nation above was perf	ormed to the best of my	professional ability in	accordance with Mea	rs MPE-0	1.	
Tech	nician's Signature Ni	cholas Mortenson		Mears		II - Limited	Date: 05/09/13
1001	Night of Orginature. Ni					Emitou	Dato. 00/00/10
	Assistant			Manual av			