Form H: Direct Examination Data Sheet - Page 1 of 10 DA/ILI DA Route Number: 3010-01 N-Segment: 191-2013 ILI Log Distance: N/A Examination Date: 4/30/2013 IMA Number: N/A RMP-11 Ref. Section: N/A Mile Point: 0.53 - 0.65 Reference Girth Weld: N/A Examination Performed By: Nicholas Mortenson Region Number: 2 Distance From Girth Weld: N/A PG&E Project Manager: Adam Abraham Subregion # (ICDA): N/A Approved By: Brenda McKay Stationing: 4+49 Order Number: 41821294 **Excavation Priority: Excavation Reason** ECDA Immediate Scheduled 1 Year Other ILI Recoat ICDA Monitor Effectiveness ICDA Other If practical, take P/S or CIS reads before excavation: No test point available **Excavation Details:** sed on GIS): Northing: Planned Inspection Length (Ft.): 12 Easting: Actual Inspection Length (Ft.): 13'6" GPS File Name: 191 4+49 corrected Field Measurement): Northing Easting Corrected Field Measurement): Nominal Wall Thickness: 0.219" Northing Nominal Pipe Diameter: 6" Easting 1.0 Data Before Coatin Clay Rock Sand Loam Wet Other 1.1 Native Soil Type: 1.1a Backfill Material Found Sand Slurry Native Depth of Cover (Ft.): 4'2" Comments: Material found around pipe was sand. Plastic Tape 1.2 Coating Type: HAA Somastic Wax Tape FBE Powercrete Paint Other: Comments: Wax tape on valve. Bare/None Coating Thickness (Inches): 0.100 - 0.190 Number of Layers: 2 - 5 1.3 Holiday Testing Performed?: Yes No Voltage Used: N/A Map Location of Holidays Below. Device Used: Coil Wet Sponge Comments: Coating was visually inspected for defects. 1.4 Pipe-to-Soil Potentials in Ditch (-mV): US: 417 Comments: Pipe-to-Soil potentials taken with a CSE. Potentials were low, PG&E has turned off rectifiers in the surrounding area for survey. 1.5 Soil Resistivity in Ditch (Ω-cm): Method: 4-Pin N/A due to asphalt. Soil Box 5.7 x 10,000 x 1 = 57,000 1.6 Soil Sample Location: Comments: U/S edge, at 3:00. **Ground Water Present?:** Yes Sample(s) Collected?: Yes Sample pH: N/A Comments: No ground water present. Good - Adhered to Pipe 1.8 Coating Condition: Fair - Coating Partially Disbonded or Degraded Poor - Coating Significantly Disbonded or Missing Comments: Existing coating was found to be in good condition, with no holidays present. Coating had some superficial cracking 1.9 Map of Coating Degradation\*: Zero Reference Point: U/S Edge of Inspection Area \*Note any calcareous deposit locations 12 o'clock Area Not Inspected 9 o'clock No Coating Damage Found 6 o'clock 3 o'clock

12 o'clock Feet 0

Form H: Direct Examination Data Sheet - Page 2 of 10 DA/ILI DA ILI Route Number: 3010-01 N-Segment: 191-2013 ILI Log Distance: N/A Examination Date: 4/30/2013 IMA Number: N/A RMP-11 Ref. Section: N/A Mile Point: 0.53 - 0.65 Reference Girth Weld: N/A Examination Performed By: Nicholas Mortenson Region Number: 2 Distance From Girth Weld: N/A PG&E Project Manager: Adam Abraham Subregion # (ICDA): N/A Stationing: 4+49Approved By: Brenda McKay Order Number: 41821294 1.10 Photos Taken?\*: Yes \*See Photo Log for additional information. 1.11 Coating Sample Taken?: Location of Sample: N/A Yes If Yes, pH of Liquid: N/A 1.12 Liquid Underneath Coating?: Yes No 1.13 Corrosion Product Present?: If Yes, Was Sample Taken?: No Yes No Yes Comments: No corrosion product present. 1.14 Soil pH (Sb Electrode): Upstream: 5 Downstream: 5 2.0 Data After Coating Removal 2.1 Pipe Temperature (°F): Measured Pipe Diameter (In.): 8, 6 SMLS 2.2 Weld Seam Type: DSAW SSAW ERW Flash AO Smith Spiral Lap If can't determine, visually perform macroetch to locate & 2.3 Girth Weld Coordinates: identify type (see Table 5.7.3, Element 2.2) Northing Easting eld Clock Position: S-1: 4:15, S- 3: 4:15, S-6: 10:30 Elevation S-8: 11:30 Northin Eastin Elevatio 2.4 Damage Found: Corrosion Damage? Yes Mechanical Damage? Yes Other Damage: No damage found during inspection 2.5 UT Wall Thickness Measurements: TDC: 0.176"/0.175" 3 O'clock: 0.179"/0.179" 1 O'clock: 0.179"/0.178" 2 O'clock: 0.179"/0.178" Section 1 / Section 3 4 O'clock: 0.176"/0.178" 5 O'clock: 0.178"/0.175" 6 O'clock: 0.178"/0.177" 7 O'clock: 0.177"/0.177" \*Additional UT on Page 6b 8 O'clock: 0.177"/0.178" 9 O'clock: 0.177"/0.179" 10 O'clock: 0.179"/0.180" 11 O'clock: 0.180"/0.179" 2.5a Nominal Wall Thickness: 0.219" UT Wall Thickness Grid @ 6:00 is required. Be sure to attach grid to Form H electronically. See page 6 of 10. Comments: Magnetic Particle Exam performed by N. Mortenson (Mears) on 05/01/2013. 2.6 Wet Fluorescent Mag. Part. Is Required. Were there any linear indications? If Yes, attach NDE report electronically as part of the Form H. Report to include black light and white light photos of indications. 2.7 Take Photos to Document Corrosion and Other Anomalies\* \*See Photo Log for additional information. Overview Map of Corroded Area\*: Zero Reference Point: U/S Edge of Inspection Area \*See Pit Depth Measurement Grid for additional Information \*Note any calcareous deposits. S-9 12 o'clock wod ≥ ě ISW-4 No Wall Loss Found Not Inspected 9 o'cloc 6 o'clock Š Area 3 o'clock LSW-1 12 o'clock

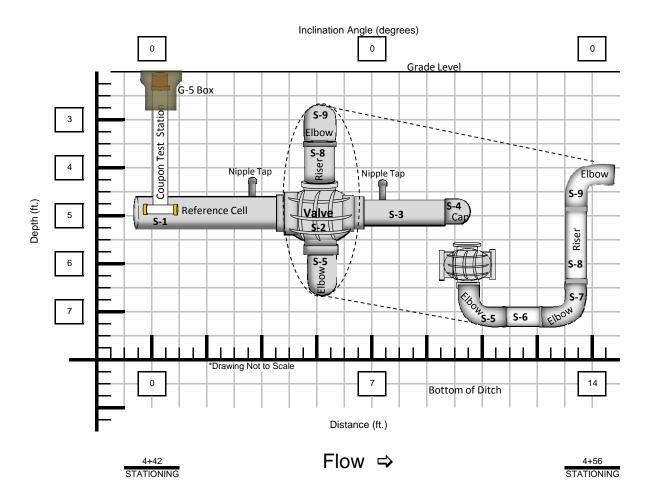
15

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

<u>DA/ILI</u>	<u>D</u>	<u>A</u>	<u>ILI</u>	
Route Number: 3010-01	N-Segment:	191-2013	ILI Log Distance: N/	'A
Examination Date: 4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section: N/	/A
Mile Point: 0.53 - 0.65	·		Reference Girth Weld: N/	/A
Examination Performed By: Nicholas Mortenson	Region Number:	2	Distance From Girth Weld: N/	/A
PG&E Project Manager: Adam Abraham	Subregion # (ICDA):	N/A		
Approved By: Brenda McKay	Stationing:	4+49		
<b>Order Number:</b> 41821294	·			

#### **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").



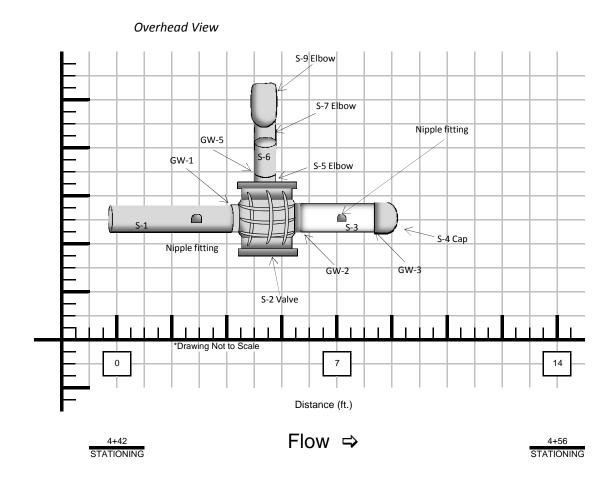
NOTES: (Record stationing and names of nearby landmarks such as creeks and roads. Provide any additional information that may help in spatially positioning pipe):

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

DA/ILI Route Number: 3010-01 N-Segment: 191-2013 ILI Log Distance: N/A IMA Number: N/A Examination Date: 4/30/2013 RMP-11 Ref. Section: N/A Reference Girth Weld: N/A Mile Point: 0.53 - 0.65 Examination Performed By: Nicholas Mortenson Region Number: 2 Distance From Girth Weld: N/A PG&E Project Manager: Adam Abraham Subregion # (ICDA): N/A Approved By: Brenda McKay Stationing: 4+49 Order Number: 41821294

#### **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):

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

## EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

<u>DA/ILI</u> Route Number: 3010-01  Examination Date: 4/30/2013				<u>DA</u> N-Segment: 191-2013					ILI ILI Log Distance: N/A													
Ex	amina	tion Da	ate: 4/3	30/2013	3				IMA Nu	ımber:	N/A				RMP-11 Ref. Section: N/A							
	N	lile Po	int: 0.5	3 - 0.6	5										Re	ference	e Girth	Weld:	N/A			
Examination	n Perfo	rmed	Bv: Nic	cholas	Morten:	son	_	Rec	ion Nu	ımber:	2				Dist	ance Fr	om Girt	h Weld:	N/A			
PG&E P							— ,	Subreg	ion # (	ICDA):	N/A											
	Ann	roved	By: Bre	anda M	ckay		— `	Jubicg		oning:												
	Ordor	Numb	per: 41	22120/	l				Otati	oming.	4143				•							
	Order	i diii.	761. <u>41</u>	021235																		
Grid Size =				Inch (s	specify	grid siz	e)															
Clock i ositioi												C =:	J 44. NI//									
	Anor	naly #:			-	•				40			1#: <u>N//</u>		45	40	47	40	40	-00	- 04	00
А	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
В																						
С																						
D																						
Е								П	١	No W	all L	oss F	ound	t								
F																						
G																						
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#### Form H: Direct Examination Data Sheet - Page 5 of 10

## EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS

Ex	DA/IL    Route Number: 3010-01   Examination Date: 4/30/2013   Mile Point: 0.53 - 0.65   Examination Performed By: Nicholas Mortenson			_	<u>DA</u> N-Segment: 191-2013 IMA Number: <u>N</u> /A				<u> L </u>   ILI Log Distance: N/A   RMP-11 Ref. Section: N/A   Reference Girth Weld: N/A													
Examination						son	_	Reg	jion Nu	ımber:	2						om Girtl					
PG&E P	roject	Manag	er: Ad	am Abr	aham		_	Subreg	ion # (	ICDA):	N/A											
	App	roved	By: Bre	enda M	cKay				Stati	oning:	4+49											
	Order	Numb	er: 418	821294																		
Grid Size =		Inch x		Inch (s	specify	grid siz	:e)															
		naly #:										Grid	d #: <u>N/</u>	A								
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Α																						
В																					1	
С																						
D																						
Е									1	No W	all L	oss F	ound	d								
F																						
G																						
н																						
1																						
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L																						
М																						
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# Form H: Direct Examination Data Sheet - Page 6a of 10

#### INTERNAL CORROSION PIT DEPTH GRID

<u>DA</u>	<u>DA/ILI</u>		<u>)A</u>	<u>II</u>	<u>ILI</u>		
Route Number:	3010-01	N-Segment:	191-2013	ILI Log Distance:	N/A		
Examination Date:	4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section:	N/A		
Mile Point:	0.53 - 0.65	<del>_</del>		Reference Girth Weld:	N/A		
<b>Examination Performed By:</b>	Nicholas Mortenson	Region Number:	2	Distance From Girth Weld:	N/A		
PG&E Project Manager:	Adam Abraham	Subregion # (ICDA):	N/A				
Approved By:	Brenda McKay	Stationing:	4+49				
Order Number:	41821294	<del>_</del>					
		<del></del>					

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

**UT Data in Inches** 

# 3'0" from U/S Edge

	1	2	3	4	5	6	7	8	9	10	11	12
Α	0.178	0.178	0.179	0.182	0.175	0.176	0.178	0.174	0.176	0.173	0.174	0.178
В	0.177	0.177	0.177	0.177	0.174	0.175	0.176	0.175	0.177	0.179	0.177	0.175
С	0.173	0.176	0.178	0.181	0.179	0.176	0.176	0.177	0.175	0.180	0.179	0.178
D	0.176	0.180	0.180	0.180	0.178	0.178	0.178	0.178	0.180	0.180	0.179	0.174
Ε	0.177	0.175	0.175	0.176	0.178	0.177	0.178	0.178	0.175	0.175	0.180	0.178
F	0.173	0.175	0.174	0.177	0.176	0.175	0.176	0.180	0.178	0.176	0.176	0.179
G	0.178	0.175	0.175	0.175	0.173	0.175	0.176	0.177	0.176	0.176	0.176	0.176
Н	0.173	0.173	0.173	0.179	0.180	0.181	0.182	0.176	0.181	0.180	0.178	0.175
1	0.173	0.174	0.174	0.177	0.178	0.181	0.178	0.181	0.182	0.178	0.179	0.176
J	0.178	0.177	0.174	0.176	0.178	0.178	0.178	0.177	0.176	0.178	0.177	0.175
К	0.177	0.177	0.179	0.175	0.175	0.177	0.179	0.176	0.177	0.177	0.179	0.177
L	0.173	0.174	0.174	0.177	0.173	0.174	0.174	0.177	0.177	0.174	0.177	0.176

INTERNAL CORROSION GRID

6:00

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

## INTERNAL CORROSION PIT DEPTH GRID

DA	<u>VILI</u>	<u>D</u>	<b>DA</b>	<u>!</u>	<u>LI</u>
Route Number:	3010-01	N-Segment:	191-2013	ILI Log Distance:	N/A
Examination Date:	4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section:	N/A
Mile Point:	0.53 - 0.65			Reference Girth Weld:	N/A
Examination Performed By:	Nicholas Mortenson	Region Number:	2	Distance From Girth Weld:	N/A
PG&E Project Manager:	Adam Abraham	Subregion # (ICDA):	N/A		
Approved By:	Brenda McKay	Stationing:	4+49		
Order Number:	41821294				

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

#### **UT Data in Inches**

#### 2.5 UT Wall Thickness Measurements:

-	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9		
12:00	0.176		0.178	0.325	0.357	0.187	0.286	0.192	0.346		
1:00	0.179		0.178	0.333	0.323	0.191	0.281	0.193	0.329		
2:00	0.179		0.179	0.335	0.296	0.192	0.291	0.195	0.309		
3:00	0.179		0.178	0.331	0.275	0.193	0.286	0.194	0.277		
4:00	0.176		0.175	0.323	0.266	0.196	0.295	0.196	0.309		
5:00	0.178		0.177	0.333	0.269	0.194	0.299	0.198	0.257		
6:00	0.178	Φ	0.177	0.332	0.281	0.191	0.311	0.197	0.262		
7:00	0.177	Valve	0.178	0.331	0.291	0.189	0.329	0.196	0.253		
8:00	0.177	<b>\</b>	0.179	0.341	0.321	0.193	0.307	0.194	0.257		
9:00	0.177		0.180	0.335	0.316	0.196	0.294	0.196	0.303		
10:00	0.179		0.179	0.333	0.354	0.198	0.304	0.195	0.309		
11:00	0.180		0.175	0.335	0.359	0.191	0.308	0.195	0.324		
Pipe Feature	Straight		Straight	Сар	Elbow	Straight	Elbow	Riser	Elbow	 	
LSW Orientation	4:15		4:15	SMLS	SMLS	10:30	SMLS	11:30	SMLS	 	
Pipe Diameter	8"		8"	8"	6"	6"	6"	6"	6"		

#### **COATING DAMAGE**

DA	<u>/ILI</u>	<u></u>	<u>DA</u>	<u>II</u>	<u>u</u>
Route Number:	3010-01	N-Segment:	191-2013	ILI Log Distance:	N/A
Examination Date:	4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section:	N/A
Mile Point:	0.53 - 0.65			Reference Girth Weld:	N/A
Examination Performed By:	Nicholas Mortenson	Region Number:	2	Distance From Girth Weld:	N/A
PG&E Project Manager:	Adam Abraham	Subregion # (ICDA):	N/A	•	
Approved By:	Brenda McKay	Stationing:	4+49	•	
Order Number:	41821294			-	

	FEET FROM	0101 001		
NO.	REFERENCE	O'CLOCK	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
			+	
			No Continue Danners Farmed	
			No Coating Damage Found	
			+	
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			+	
	<del>                                     </del>		+	
			+	
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#### **CORROSION LOG**

DA	<u>/ILI</u>	<u>D</u>	<u> </u>		<u>LI</u>
Route Number:	3010-01	N-Segment:	191-2013	ILI Log Distance:	N/A
Examination Date:	4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section:	N/A
Mile Point:	0.53 - 0.65			Reference Girth Weld:	N/A
Examination Performed By:	Nicholas Mortenson	Region Number:	2	Distance From Girth Weld:	N/A
PG&E Project Manager:	Adam Abraham	Subregion # (ICDA):	N/A		
Approved By:	Brenda McKay	Stationing:	4+49		
Order Number:	41821294			<u></u>	

	FFFT FROM	ı			1
IC or EC	FEET FROM REFERENCE	O'CLOCK	MAX PIT DEPTH (MILS)	MAX LENGTH (IN.)	MAX CIRC EXTENT (IN.)
		0 1 2 2 1 1 1			
			No Wall Loss Found		
	•	•		·	•

# PHOTO LOG

<u>DA/ILI</u>							
Route Number:	3010-01						
Examination Date:	4/30/2013						
Mile Point:	0.53 - 0.65						
Examination Performed By:	Nicholas Mortenson						
PG&E Project Manager:	Adam Abraham						
Approved By:	Brenda McKay						
Order Number:	41821294						

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

Region Number: 2
Subregion # (ICDA): N/A
Stationing: 4+49

| LL|
| 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	Facing North	Excavation in Progress	After Saw Cut
6	Facing East	Excavation in Progress	
7	Facing West	Excavation in Progress	
8	Overview	Excavation in Progress	White and Black Plastic Tape
9	12:00, Facing D/S	Existing Coating	
10	3:00, Facing D/S	Existing Coating	
11	6:00, Facing D/S	Existing Coating	
12	9:00, Facing D/S	Existing Coating	
13	Facing 3:00	Existing Coating	Black Plastic Tape (Tap)
14	Facing 3:00	Existing Coating	White and Black Plastic Tape (Valve)
15	9:00, Facing D/S	Existing Coating	White Plastic Tape (Pipe)
16	3:00, Facing D/S	Existing Coating	
17	6:00, Facing D/S	Existing Coating	
18	12:00, Facing U/S	Existing Coating	6" Pipe
19	12:00, Facing U/S	Existing Coating	8" Pipe
20	3:00, Facing U/S	Existing Coating	8" Pipe
21	6:00, Facing U/S	Existing Coating	8" Pipe
22	9:00, Facing U/S	Existing Coating	8" Pipe
23	12:00, Facing D/S	Coating Removed	8" Pipe
24	3:00, Facing D/S	Coating Removed	8" Pipe
25	6:00, Facing D/S	Coating Removed	8" Pipe
26	9:00, Facing D/S	Coating Removed	8" Pipe
27	12:00, Facing U/S	Coating Removed	8" Pipe
28	3:00, Facing U/S	Coating Removed	8" Pipe
29	6:00, Facing U/S	Coating Removed	8" Pipe
30	3:00, Facing U/S	Coating Removed	6" Pipe
31	9:00, Facing U/S	Coating Removed	6" Pipe
32	12:00, Facing U/S	Coating Removed	6" Pipe
33	6:00, Facing U/S	Coating Removed	6" Pipe
34	12:00, Facing D/S	Media Blasted Pipe	Kleen Blast 30/60, 8" Pipe
35		Media Blasted Pipe  Media Blasted Pipe	
	3:00, Facing D/S	Media Blasted Pipe  Media Blasted Pipe	Kleen Blast 30/60, 8" Pipe
36	6:00, Facing D/S	·	Kleen Blast 30/60, 8" Pipe
37	9:00, Facing D/S	Media Blasted Pipe	Kleen Blast 30/60, 8" Pipe
38	12:00, Facing U/S	Media Blasted Pipe	Kleen Blast 30/60, 8" Pipe
39	3:00, Facing U/S	Media Blasted Pipe	Kleen Blast 30/60, 8" Pipe
40	6:00, Facing U/S	Media Blasted Pipe	Kleen Blast 30/60, 8" Pipe

# PHOTO LOG

<u>DA/ILI</u>						
Route Number:	3010-01					
Examination Date:	4/30/2013					
Mile Point:	0.53 - 0.65					
<b>Examination Performed By:</b>	Nicholas Mortenson					
PG&E Project Manager:	Adam Abraham					
Approved By:	Brenda McKay					
Order Number:	41821294					

<u>II</u>	<u>LI</u>
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
41	6:00, Facing U/S	Media Blasted Pipe	Kleen Blast 30/60, U/S of Valve
42	9:00, Facing U/S	Media Blasted Pipe	Kleen Blast 30/60,8" Pipe
43	12:00, Facing D/S	Media Blasted Pipe	6" Pipe
44	3:00, Facing U/S	Media Blasted Pipe	6" Pipe
45	9:00, Facing U/S	Media Blasted Pipe	6" Pipe
46	Overview, Facing East	Media Blasted Pipe	
47	Overview, Facing South	Media Blasted Pipe	
48	Overview, Facing East	Media Blasted Pipe	Valve and 6" line
49	6:00, 5'9" from U/S Edge	MT Test - Linear Indication, LI-1	Black Light
50	6:00, 5'9" from U/S Edge	MT Test - Linear Indication, LI-1	White Light
51	6:00, 5'9" from U/S Edge	MT Test - Linear Indication, LI-1	White Light After Buffing began
52	6:00, 5'9" from U/S Edge	MT Test - Linear Indication, LI-1	Indication removed
53		Environmental Readings	
54	12:00, at U/S Edge	Test Wires Installed with CAD Welds	
55		Hardener Batch Number	
56		Hardener Batch Number	
57		Hardener Batch Number	
58		Base Resin Batch Number	
59		Base Resin Batch Number	
60	12:00, Facing U/S	Pipe Recoated	
61	3:00, Facing U/S	Pipe Recoated	
62	6:00, Facing U/S	Pipe Recoated	
63	9:00, Facing U/S	Pipe Recoated	
64	12:00, Facing D/S	Pipe Recoated	
65	12:00, Facing D/S	Pipe Recoated	
66	3:00, Facing D/S	Pipe Recoated	
67	3:00, Facing U/S	Pipe Recoated	
68	6:00. Facing U/S	Pipe Recoated	
69	9:00, Facing D/S	Pipe Recoated	
70	12:00, Facing D/S	Pipe Recoated	
71	9:00, Facing D/S	Pipe Recoated	
72	6:00, Facing D/S	Pipe Recoated	
73	3:00, Facing D/S	Pipe Recoated	
73 74			
	Overview	Pipe Recoated	Tuff NI Niuff
75	12:00, Facing D/S	Coating Protection Applied	Tuff-N-Nuff
76	Overview	Soil Compaction Test	
77	Overview	Soil Compaction Test	
78	9:00, at U/S Edge	Reference Cell Installation in Progress	
79	9:00, at U/S Edge	Reference Cell Installed	
80	9:00, at U/S Edge	Coupon Test Station and Reference Cell Installed	

## PHOTO LOG

<u>D/</u>	<u>VILI</u>	<u></u>	<u>DA</u>	<u>ILI</u>
Route Number:	3010-01	N-Segment:	191-2013	ILI Log Distance: N/
Examination Date:	4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section: N/
Mile Point:	0.53 - 0.65			Reference Girth Weld: N/
Examination Performed By:	Nicholas Mortenson	Region Number:	2	Distance From Girth Weld: N/
PG&E Project Manager:	Adam Abraham	Subregion # (ICDA):	N/A	<del></del>
Approved By:	Brenda McKay	Stationing:	4+49	
Order Number:	41821294			

PHOTO NO.	LOCATION	DESCRIPTION	COMMENTS
81	Facing East	Backfill in Progress	
82	Facing East	Backfill in Progress	
83	Facing East	Backfill in Progress	
84	Facing North	Backfill in Progress	G-5 Box Installed
85	Facing West	Backfill in Progress	
86	Facing North	Site As Left	
87	Facing East	Site As Left	
88	Facing South	Site As Left	
89	Facing West	Site As Left	
-			
		<u>l</u>	

Form H: D	rect Examination Data Sheet - Page 1	0 of 10		
	<u>DA/ILI</u>	<u>D</u>		<u>ILI</u>
_	Route Number: 3010-01	N-Segment:		ILI Log Distance: N/A
E	Examination Date: 4/30/2013	IMA Number:	N/A	RMP-11 Ref. Section: N/A
Evaminati	Mile Point: 0.53 - 0.65	Region Number:	3	Reference Girth Weld: N/A  Distance From Girth Weld: N/A
	Project Manager: Adam Abraham	Subregion # (ICDA):		Distance From Girtii Weld. N/A
FGGE	Approved By: Brenda McKay	Stationing:		
	Order Number: 41821294		1110	
	11021201	_		
2 0 Bassat	Data			
3.0 Recoat	Data			
3.1	Sandblast Media: Kleen Blast 30/60		Anchor Profile Measu	urement: 3.5 mils
3.2	Pipe Recoated With:			
	Powercrete J Wax Tape	Bar-Rust 235	Dev Grip 238	Dev Tar 247 Protal 7200 PE Tape
3.3	For Epoxy Coating Systems, Record Env	ironmental Condition:		
	Air Temperature: 85.4°F		Dew Point: 58.0°F	
	Pipe Temperature: 82.9°F		Relative Humidity: 39.4%	
	Time of Day: 12:00 PM		·	<u> </u>
3.4	Repair Coating Hardness (If ARC Coating	):) 81		
3.4	Repair Coating Hardness (if ARC Coating	.) 01		
3.5	Measured Coating Thickness: 3:00 - 3	39 - 43 mils 6:0	0 - <u>27 - 45 mils</u> 9	9:00 - <u>23 - 41 mils</u> 12:00 - <u>26 - 37 mils</u>
	Holiday Tested?: Yes No	1		
	Device Used: Coil W	et Sponge Voltage	Used: <u>2,500V</u>	Repair All Holidays.
3.6	Coupon Test Station Installed?:	Yes No	ETS Installed?: Ye	es No
	If Yes, Date Installed: 6/4/2013	<u>—</u>	_	_
	ii res, Date installed.		_	
	Surface Configuration:: Fink	G-5 Box Cars	onite Other:	
3.7	Backfill Material: Native	Imported Sand	Other: Road	d base
		<b>=</b>		
	Coating Protections?: Yes	No		
	If Yes, Check One: Rockguard	Tuff-N-Nuff	PipeSaver Other:	
3.8	Pipe-to-Soil Readings Over Bell Hole After	er Backfill: -650mV		
	*If specified, a CIS should be done for appro		of the bell hole. Attach data.	
		•	5. 11.6 561. 11.6161. 7 Mag. 1. Gala.	
	Comments: Pipe-to-Soil potential taken wi	th a CSE.		
3.9	Attach site sketch of excavation site.			
4.0 Repair	Data			
		44 11 1 65		
4.1	Repair Made: Yes No	4.1 Number of Repa	rs Made: N/A	
4.2	Repair Type: Metallic Sleeve	Non Metallic Sleeve	Replace Can	Filler Metal Other
4.3	Repair Type: Metallic Sleeve	Non Metallic Sieeve	Replace Can	Filler Metal Other
4.4	Damage Repaired: Corrosion	Mechanical	Other	
				peed shoring was installed due to multiple sections
				. Once the excavation was complete, a coating
_			•	2 main layers with the elbows and valve having up
				edia blasted using Kleen Blast 30/60. The pipe was
	Š		• •	am was performed finding 1 linear indication, located
				buff out the indication. The indication got bigger I thickness could be measured. Mike Ballard (ATS)
_	·			ns (ATS) arrived on site with Edge to perform RT.
	Š			ditional testing and Acid Etch to determine there
				on below the original LI-1 found during the Magnetic
				ecoat. The pipe was media blasted and test leads
	•		**	vas allowed to cure, hardness and thickness were
				for additional coating protection. A reference cell
				imported sand, compacted, and road base to below
grade. Aspha	alt was repaired. Coupon test station was insta	alled in a G-5 box, flush with	asphalt. The site was restored	I on 06/04/2013.

Mears Job Number: 9101323013

Form H: Site Map

UA	<u>VILI</u>
Route Number:	3010-01
Examination Date:	4/30/2013
Mile Point:	0.53 - 0.65
ion Porformed By:	Nicholae Mortoneon

Examination Performed By: Nicholas Mortenson
PG&E Project Manager: Adam Abraham
Approved By: Brenda McKay
Order Number: 41821294

\*Sketch Not Drawn to Scale

# Form H: Direct Examination Data Sheet

me <mark>ars</mark>	D.4	VILI	M	AGNETIC PARTIC	CLE EXAMINAT	ION DAT	A SHEET			<u>LI</u>		
	Route Number: 3010-01			N-Seg	N-Segment: 191-2013				ILI Log Distance: N/A			
Examination Date: 4/30/2013  Mile Point: 0.53 - 0.65		IMA Nu	IMA Number: N/A			RMP-11 Ref. Section: N/A						
						Reference Girth Weld: N/A						
Examinat	tion Performed By:	Nicholas Moi	rtenson	Region Nu	ımber: 2		Dis	stance From	Girth Weld:	N/A		
PG&	E Project Manager:	Adam Abrah	am	Subregion # (I								
	Approved By:		ay	Stati	oning: 4+49							
	Order Number:	41821294										
Tes	t Equipment	Seria	l No.	Technique	Test Mediu	ım	Quality (	Control		Surface C	ondition	
	Yoke	116	30	Continuous	We	et	Batch #	07J052	_	As Blasted I	NACE 2	
Perman	nent Magnet			Residual	Dr	у	Batch #			Bare Metal		
	Coil		<u>_</u>	AC	Fluorescen	nt	Batch #	07J052		As Ground		
	Other			DC	Black on White		Batch #			Painted		
	Other				DIACK OIT WITH	<b>с</b> Ш	Datcii #		_	<u> </u>		
										Other (Waln	nut Blasted)	
	Reference GPS:	U/S Edae		Ad	cceptance Criteria	: No indic	ations allowe	ed.				
	Northing				Accepted	? Ye	es l	No, See Ta	able below.			
	Easting											
М	lap of Magnetic Par	ticle Indication	ons:		Zero Ref	ference Po	int: U/S E	dge of Insp	pection Area	a		
							Flow				<b>→</b>	
12:00												
9:00											Not Inspected	
				LI-1							bed	
6.00										<b>.</b>		
6:00											Š	
											Area	
3:00											<	
12:00												
Feet:	0 1	2	3	4 5	6 7	8	9	10	11	12 13	}	
Γable												
		0:	ımferential	Indication	\A/-!!	Thickness	l l			I11:	cation	
Ind No.	<b>Axial Position</b>		osition	Length		re Softpad		Wall Thicl fter Final S			l (Yes, No)	
							- u		•			
LI-1	5'9"		6:00	3.5"	0.410	0.410" - 0.510"		0.398" - 0.511"		Yes		
										ļ		
					<del>   </del>							
										L		
Notes: N	Magnetic Particle Fx	am was perfo	rmed, finding	1 linear indication. Ir	ndication is 3.5" lon-	a bv 0.5" wi	ide. located a	at the 6:00	position on	the valve. Joe	I (ATS)	
_				came larger and bega								
				h UT. Mike Ballard (P								
				orm RT but was unab								
				nspections. On 5/21/1			the indication	n was rem	oved. Due	to the issues o	btaining	
n accurate	e U Fread, it was not	possible to pr	rovide an acc	curate percentage of v	wall removed during	g buffing.						
he examii	nation above was p	erformed to	the best of r	my professional abil	ity in accordance	with Mears	MPE-01.					
	•				-					D	40	
Tech	nnician's Signature:	Nicholas Moi	rtenson		N	nears Level	: Level II - I	Limited	_	Date: <u>05/01/</u>	/13	
	Assistant:				N.	lears Level				Date:		
	Assistant.				N	noars Level			_	שמוט.		