

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

IN-FIELD SERVICES

GEIS Pipeline Integrity Team NDE

Pacific Gas & Electric Company

Hydrostatic Test Dig from October 7, 2011 to November 5, 2011

T43A/B_L147_B Redacted

Documents Contained Within:

H-Form Report T43A/B_L147_B Redacted

Photo Report of T43A/B_L147_B Redacted

Author

Date: December 2, 2011



| Form H: Dire | ect Examination Da | _ | e 1 of 10 | | | | | | | | |
|--------------------------|---|--|---|--|--|---|---|--|-------------------|---|---------|
| | Route Number: | <u>ViLi</u> L- | 147 | Site [| <u>DA</u> Designation: | T43A/B | В | ILI L | og Distance: | NA | |
| | Date of Excavation: | | /2011 | | N-Segment: | NA NA | | | Ref. Section: | Table 5.6 | 6.2 |
| | Mile Point: | Reda | cted | _ | MA Number: | NA | | Reference | Girth Weld: | NA | |
| | ination Performed By: | | | _ | | | | Distance Fr | om Girth Weld: | NA | |
| P | G&E Project Manager: | _ | NA . | | on Number: | NA NA | | | | | |
| | Approved By: Order Number: | | VA VA | _ Subre | gion # (ICDA): Stationing: | NA NA | | | | | |
| F | | | | _ | | | - Dassau | | | | |
| EXCA | vation Priority: | | _ | | | Excavation | | _ | | | |
| | Immediate | Scheduled (Fo | r ILI - | 1 Year | Other) | ECD | A 🔲 1 | LI R | ecoat | | |
| | Monitor | Effectiveness | Х | Hydro Test | | ICD/ | · 🔲 (| Other NA | | | |
| 4 | ctical, take P/S or CIS | | | | | | | NA | | | |
| Excavation De | | tart GPS Coordin | | (Uncorrected Fie | ld Measuremen | t) | | IVA | | | |
| | | dacted | | (| PDO | | Planned | Excavation Length | (Ft.): | NA | |
| | Easting | | | | Acc~: | NA | Actual | Excavation Length | (Ft.): | 21.0ft | |
| | Centerli | ne GPS Coordina | ites | (Uncorrected Fie | ld Measuremen | t) | | GPS File N | ame: | Redacte | |
| | Northing: NA | | | | PDO | | | | | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | Easting: NA | | | | Acc~: | NA | | | | | |
| | D Re | edacted | * Ps | (Uncorrected Fie | | | | | | | |
| | Northing Re Easting | Luuctcu | | | PDO Acc~: | P: NA NA | | | | | |
| | | | | | | | | | | | |
| 1.0 Data Bet | fore Coating Remov | /al | | | | | | | | | |
| 1.1 | Native Soil Type: | | X Clay | X Rock | X Sand | Loam | Wet | Other | NA | | |
| | 1.1A Backfill Mate | rial Found: | _ | Silt | Slurry | Native | Depth | of Cover (Ft.): | | 6.00ft | |
| | Comments: NA | | | _ | _ | _ | | | | | |
| 1.2 | Coating Type: | П наа | П | Somastic | Plastic 1 | ane ane | Wax Tape | FBE | | owercrete | |
| 1.2 | | ш_ | | _ | L Hadde | про | _ | □ '5- | | OWOTOFCIO | |
| | Bare/ | None X | Coal Tar | Other: NA | | | Comments: | | NA | | |
| | Coating Thickness (I | nches): | 0.250in | | | Number of Layers | s: <u>2</u> | | | | |
| 1.3 | Holiday Testing Per | formed?: | ı∕\\n_\ | Yes X N | 0 | Voltage Used: N/ | A | Ma | p Location of Hol | idays Below. | |
| | | Device U | % #= | = | et Sponge | · - | Comments | - | NA | , | |
| 1.4 | Pipe-to-Soil Potenti | 11 | //- | US: 12: | | 3:00 -5 | 530 | 6:00 -535 | 9:00 | -526 | _ |
| | | 100 | | when . | 00 -661 | | 358 | 6:00 -640 | 9:00 | -663 | _ |
| | | | | 13/2 //// | | | | | | | _ |
| | Comments: CP | system may be to | urned off. // | 1754 h | | | | | | | |
| 1.5 | Comments: CP Soil Resistivity in D | | urned off. | ###################################### | a025a | | | | | | |
| 1.5 | Soil Resistivity in D Method: | | urried off. 24469.5 ohm/cr | 4 4 | | | Soil Box | NA | | | |
| 1.5 | Soil Resistivity in D Method: Comments: | itch (Ω-cm): X 4-Pin | 24469.5 ohm/cr | (NA | 75(2) | | Soil Box | | US:131.5KΩ. | /cm DS: 6.1 | I KΩ/cm |
| 1.5 | Soil Resistivity in D Method: | itch (Ω-cm): X 4-Pin | | (NA | S) 6:00 position | under pipe. | Soil Box | | US:131.5KΩ. | /cm DS: <u>6.1</u> | I KΩ/cm |
| | Soil Resistivity in D Method: Comments: Soil Sample Location Ground Water Pres | itch (Ω-cm): X 4-Pin | 24469.5 ohm/cr | (NA | 11 11 1 | under pipe. | Soil Box | | US: 131.5ΚΩ | | I KΩ/cm |
| 1.6 1.7 | Soil Resistivity in D Method: Comments: Soil Sample Locatio Ground Water Pres Comments: NA | itch (Ω-cm): X 4-Pin | 24469.5 ohm/cr Comments Yes | Ditch end (D | 11 11 1 | (s) Collected?: | Yes | SRM-100 | Sample pH | | I KΩ/cm |
| 1.6 | Soil Resistivity in D Method: Comments: Soil Sample Location Ground Water Pres | itch (Ω-cm): X 4-Pin | 24469.5 ohm/cr Comments Yes | NA Ditch end (D | 11 11 1 | (s) Collected?: | Yes | SRM-100 | Sample pH | | I KΩ/cm |
| 1.6 1.7 | Soil Resistivity in D Method: Comments: Soil Sample Locatio Ground Water Pres Comments: NA | itch (Ω-cm): X 4-Pin | 24469.5 ohm/cr Comments Yes X Good - Ar | Ditch end (D | Sample | (s) Collected?: | Yes | SRM-100 | Sample pH | | I KΩ/cm |
| 1.6 1.7 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Comments | itch (Ω-cm): X 4-Pin on ent?: | Comments Yes X Good - Ar Poor - Co | NA Ditch end (D X No dhered to Pipe pating Significantly blasted. Pipe section | Sample Disbonded or (v on removed and | (s) Collected?: Fair - Collecting Fair - Collecting test pipes installe | Yes ating Partially Dist | SRM-100 X No conded or Degrade | Sample pH | | I KΩ/cm |
| 1.6 1.7 | Soil Resistivity in D Method: Comments: Soil Sample Locatio Ground Water Pres Comments: NA Coating Condition: | itch (Ω-cm): X 4-Pin on ent?: | Comments Yes X Good - Ar Poor - Co | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | (s) Collected?: Fair - Collecting Fair - Collecting test pipes installe | Yes ating Partially Dist | SRM-100 X No conded or Degrade | Sample pH | | I KΩ/cm |
| 1.6 1.7 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Comments | itch (Q-cm): X 4-Pin A-Pin cn ent?: atting removed & t except for coating | Comments Yes X Good - Ar Poor - Co | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | (s) Collected?: Fair - Collecting Fair - Collecting test pipes installe | Yes ating Partially Disk | SRM-100 X No conded or Degrade | Sample pH | | I ΚΩ/cm |
| 1.6 1.7 1.8 | Soil Resistivity in D Method: Comments: Soil Sample Locatio Ground Water Pres Comments: NA Coating Condition: Comments: Cowas in good conition | which (Q-cm): A-Pin ating removed & t except for coating gradation*: | 24469.5 ohm/cr Comments Yes X Good - Av Poor - Cc ie in weld areas I g damage from re | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | Fair-Conssing test pipes installer | Yes ating Partially Disk | SRM-100 X No conded or Degrade | Sample pH | | I KΩ/cm |
| 1.6 1.7 1.8 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Cowas in good contition Map of Coating Deg | itch (Q-cm): A-Pin ating removed & t except for coating gradation*: s deposit location | 24469.5 ohm/cr Comments Yes X Good - Av Poor - Cc ie in weld areas I g damage from re | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | Fair-Conssing test pipes installer | Yes ating Partially Disk | SRM-100 X No conded or Degrade | Sample pH | | I KΩ/cm |
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| 1.6 1.7 1.8 1.9 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Cowas in good conlition Map of Coating Deg *Note any calcareous Holidays | itch (Q-cm): A-Pin ating removed & t except for coating gradation*: s deposit location | 24469.5 ohm/or Comments Yes X Good - Ar Poor - Co ie in weld areas It g damage from re | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | Fair-Conssing test pipes installer | Yes ating Partially Dist | SRM-100 X No conded or Degrade | Sample pH | | I KΩ/cm |
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| 1.6 1.7 1.8 1.9 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Cowas in good contition Map of Coating Deg *Note any calcareous Holidays o'clock | itch (Q-cm): A-Pin ating removed & t except for coating gradation*: s deposit location | 24469.5 ohm/or Comments Yes X Good - Ar Poor - Co ie in weld areas It g damage from re | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | Fair-Conssing test pipes installer | Yes ating Partially Dist | SRM-100 X No conded or Degrade | Sample pH | | KΩ/cm |
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| 1.6 1.7 1.8 1.9 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Cowwas in good contition Map of Coating Deg *Note any calcareous Holidays b'clock | itch (Q-cm): A-Pin ating removed & t except for coating gradation*: s deposit location | 24469.5 ohm/or Comments Yes X Good - Ar Poor - Co ie in weld areas It g damage from re | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | Fair-Conssing test pipes installer | Yes ating Partially Dist | SRM-100 X No conded or Degrade | Sample pH | | KΩ/cm |
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| 1.6 1.7 1.8 1.9 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Cowas in good contition Map of Coating Deg *Note any calcareous Holidays colock colock | itch (Q-cm): A-Pin ating removed & t except for coating gradation*: s deposit location | 24469.5 ohm/or Comments Yes X Good - Ar Poor - Co ie in weld areas It g damage from re | Ditch end (D X No A No No A A A A A A A A A A A A A | Sample Disbonded or (v on removed and | Fair-Conssing test pipes installer | Yes ating Partially Dist | SRM-100 X No conded or Degrade section was also as | Sample pH | | 1 KΩ/cm |
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| 1.6 1.7 1.8 1.9 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Co was in good contition Map of Coating Deg *Note any calcareous Holidays o'clock o'clock o'clock Feet 0 | ating removed & t except for coating gradation*: a deposit location bisbor | 24469.5 ohm/or Comments Yes X Good - Ar Poor - Co te in weld areas t o damage from re s s andments | NA Ditch end (D X No dhered to Pipe pating Significantly blasted. Pipe sectic moval and transpo | Sample Disbonded or ly in removed and ritation. See con | (s) Collected?: Fair Co. Issing test pipes installer mments page 10. Zero Reference | Yes ating Partially Dist O Removed pipe | SRM-100 X No conded or Degrade section was also as | Sample pH | NA NA | |
| 1.6 1.7 1.8 1.9 | Soil Resistivity in D Method: Comments: Soil Sample Locatic Ground Water Pres Comments: NA Coating Condition: Comments: Qoo was in good contition Map of Coating Deg *Note any calcareous Holidays o'clock o'clock o'clock Feet 0 | ating removed & t except for coating gradation*: s deposit location Disbor | 24469.5 ohm/or Comments Yes X Good - Ar Poor - Co is in weld areas I is damage from re s andments | NA Ditch end (D X No dhered to Pipe bating Significantly blasted. Pipe sectic smoval and transpo | Sample Disbonded or ly in removed and ritation. See con | (s) Collected?: Fair Co. Issing test pipes installer mments page 10. Zero Reference | Yes ating Partially Dist O Removed pipe | SRM-100 X No conded or Degrade section was also as | Sample pH | NA NA | |

| Form H: Direct Ex | xamination Data | Sheet - Page 2 o | f 10 | | | | |
|--|---|--|---|---|--|--|--|
| _ | DA/ILI | | <u>D</u> | | | <u> </u> | |
| | ute Number: | L-147 | Site Designation | T43A/B_B | | Distance: | NA Table 5.6.2 |
| Date of | Excavation: | 10/7/2011 edacted | N-Segment: IMA Number: | NA NA | RMP-11 Re | | NA |
| Examination Pe | | | , manual number. | NA NA | Distance From | | NA NA |
| PG&E Proje | | | , Region Number: | NA NA | Diotano (1011) | | 101 |
| • | pproved By: | NA NA | Subregion # (ICDA): | | | | |
| | der Number: | NA | Stationing: | | | | |
| 1.10 Photos | s Taken?*: X | Yes No | | | | | |
| 1.11 Coatin | ng Sample Taken?: | : Yes | X No Lo | cation of Sample: | | NA | |
| 1.12 Liquid | l Underneath Coati | ing?: Yes | X No If Y | es, pH of Liquid: | | NA | |
| | sion Product Prese ents: <u>NA</u> | ent?: Yes | X No If | Yes, Was Sample Take | en?: Yes | X No | |
| 1.14 Soil pl | H (Sb Electrode): | Upstream: | 6.0 Do | wnstream: 7.5 | Pipe | pH:6.0 | <u> </u> |
| 2.0 Data After Co | ating Removal | _ | | ` | | | |
| | emperature (°F): | 60.0° F | | Measured Pipe Diam | eter (In.): 63" = 20.05 | ,, | |
| • | Seam Type: Г | X DSAW | — I ssaw | | | | |
| | | Spiral | Lap | = | | RMINE, VISUALLY P | PERFORM |
| | <u> </u> | | • • | AO SIIIIII | MACROETCH & | LOCATE | |
| | | & Identify Type (See | • | ND. NA | | | |
| | orthing: <u>NA</u> :asting: NA | | PDC | | LS Weld Clock Position(s | ·\· 8·55 | |
| | evation: NA | | | C -, IVA | LO Weid Clock Position(s | .). 0.00 | |
| | - | | <u></u> | | | | |
| 2.4 Dam | nage Found: | | <u> </u> | | | | |
| | | | 37 2000 | | | 77 A | |
| Co | orrosion Damage | ☐ Yes | X No. | Mechanical Damage | Yes | X No | |
| Co | • | | No no corrosion found greate | - | Yes Yes | X No | |
| Co O | • | relevant tool marks, surements: US | no corrosion found greate | er than 20% | US / DS | | US/DS |
| Co O | other Damage: Non | relevant tool marks, surements: US TDC: 0.270" | no corrosion found greate DS (0.275" 1 O'clock | er than 20% US / DS 0.267"/0.272" 2 O | US / DS clock 0.267"/0.271" | 3 O'clock | 0.265"/0.271" |
| Co O | other Damage: <u>Non</u> | relevant tool marks, surements: US TDC: 0.270" 4 O'clock 0.268" | no corrosion found greate DS /0.275" 1 O'clock /0.270" 5 O'clock | US / DS 0.267"/0.272" 2 0 0.266"/0.271" 6 0 | US / DS clock 0.267"/0.271" clock 0.268"/0.273" | 3 O'clock | 0.265"/0.271" 0.266"/0.272 |
| Co O | other Damage: <u>Non</u> | relevant tool marks, surements: US TDC: 0.270" | no corrosion found greate DS /0.275" 1 O'clock /0.270" 5 O'clock | US / DS 0.267"/0.272" 2 0' 0.266"/0.271" 6 0' | US / DS clock 0.267"/0.271" | 3 O'clock | 0.265"/0.271" |
| Co O 2.5 UTW a | other Damage: Non | relevant tool marks, surements: US TDC: 0.270" 4 O'clock 0.268" 8 O'clock 0.269" | no corrosion found greate DS /0.275" 1 O'clock /0.270" 5 O'clock | US / DS 0.267"/0.272" 2 O' 0.266"/0.271" 6 O' 0.261"/0.263" 10 C | US / DS clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" | 3 O'clock | 0.265"/0.271" 0.266"/0.272 |
| Co O 2.5 UTWa UTWa | other Damage: Non | relevant tool marks, surements: US | no corrosion found greate 7 DS (0.275" 1 O'clock (0.270" 5 O'clock (0.269" 9 O'clock | US / DS 0.267"/0.272" 2 0' 0.266"/0.271" 6 0' 0.261"/0.263" 10 0 0 H-Form electronical | US / DS clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" | 3 O'clock 7 O'clock 11 O'clock | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" |
| Co O 2.5 UT Wa UT Wa 2.6 Wet FI | other Damage: <u>Non</u> all Thickness Meas all Thickness Grid | relevant tool marks, surements: US | no corrosion found greate DS (0.275" 1 O'clock (0.270" 5 O'clock (0.269" 9 O'clock Be sure to attach grid to | us / Ds 0.267"/0.272" 2 O' 0.266"/0.271" 6 O' 0.261"/0.263" 10 O D H-Form electronical 2 linear indications | US / DS clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sector electronically as part | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI | all Thickness Meas all Thickness Grid luorescent Mag. Pa | relevant tool marks, surements: US TDC: 0.270" 4 O'clock 0.268" 8 O'clock 0.269" @ 6:00 is required. art. Is Required. cations? | no corrosion found greate (DS) (0.275" 1 O'clock (0.270" 5 O'clock (0.269" 9 O'clock Be sure to attach grid to Comments: Yes No | us / Ds 0.267"/0.272" 2 O' 0.266"/0.271" 6 O' 0.261"/0.263" 10 O D H-Form electronical 2 linear indications | US / DS clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sec | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| 2.5 UT Wa UT Wa 2.6 Wet FI Were ti 2.7 Take F | all Thickness Meas all Thickness Grid luorescent Mag. Pathere any linear indi | relevant tool marks, surements: US TDC: 0.270" 4 O'clock 0.268" 8 O'clock 0.269" @ 6:00 is required. art. Is Required. cations? | no corrosion found greate (DS) (0.275" 1 O'clock (0.270" 5 O'clock (0.269" 9 O'clock Be sure to attach grid to Comments: Yes No | us / Ds 0.267"/0.272" 2 O' 0.266"/0.271" 6 O' 0.261"/0.263" 10 O D H-Form electronical 2 linear indications | US / DS clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sector electronically as part | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indice. Photos to Docume Photo Log for addition | relevant tool marks, surements: US TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. art. Is Required. cations? X nt Corrosion and O onal information. | no corrosion found greate (DS) (0.275" 1 O'clock (0.270" 5 O'clock (0.269" 9 O'clock Be sure to attach grid to Comments: Yes No | us / Ds 0.267"/0.272" 2 O' 0.266"/0.271" 6 O' 0.261"/0.263" 10 O D H-Form electronical 2 linear indications | US / DS clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sector electronically as part | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for additio iew Map of Corrod | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sector electronically as part is k light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for additio iew Map of Corrod | relevant tool marks, surements: US TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. art. Is Required. cations? X nt Corrosion and O onal information. | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 O' 0.266"/0.271" 6 O' 0.261"/0.263" 10 O D H-Form electronical 2 linear indications | clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sector electronically as part is k light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | clock 0.267"/0.271" clock 0.268"/0.273" clock 0.266"/0.264" lly. See page 6 of 10. on the removed pipe sector electronically as part is k light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P *Note any calcare 12 o'clock 9 o'clock | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P *Note any calcare 12 o'clock 9 o'clock | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P *Note any calcare 12 o'clock 9 o'clock | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |
| UT Wa 2.6 Wet FI Were ti 2.7 Take F *See P 2.8 Overvi *See P *Note any calcare 12 o'clock 9 o'clock | all Thickness Meas all Thickness Grid luorescent Mag. Pa there any linear indi Photos to Docume Photo Log for addition iew Map of Corrod Pit Depth Measurem | relevant tool marks, surements: US. TDC: 0.270", 4 O'clock 0.268", 8 O'clock 0.269", @ 6:00 is required. cations? X nt Corrosion and Oonal information. led Area*: | no corrosion found greate (0.275" 1 O'glock (0.270" 5 O'glock (0.269" 9 O'glock Be sure to attach grid to Comments: Yes No ther Anomalies* | us / Ds 0.267"/0.272" 2 0 0.266"/0.271" 6 0 0.261"/0.263" 10 C b H-Form electronical 2 linear indications If Yes, attach NDE rep Report to include black | US / DS clock 0.267"/0.271" Clock 0.268"/0.273" Clock 0.266"/0.264" Illy. See page 6 of 10. on the removed pipe sector electronically as part of light and white light pho | 3 O'clock 7 O'clock 11 O'clock tion. See MT & Ptof the H-Form. | 0.265"/0.271" 0.266"/0.272 0.269"/0.270" noto report. |

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

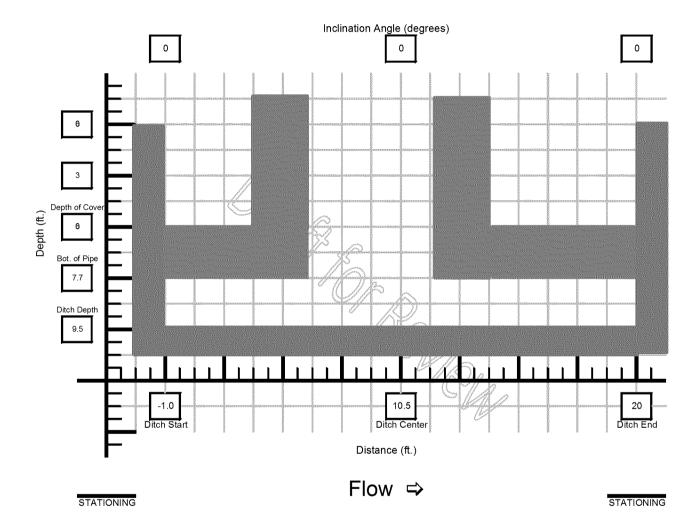
| DA | <u>/ILI</u> |
|---------------------------|-------------|
| Route Number: | L-147 |
| Date of Excavation: | 10/7/2011 |
| Mile Point: | Redacted |
| Examination Performed By: | |
| PG&E Project Manager: | |
| Approved By: | NA |
| Order Number: | NA |

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

| <u>ILI</u> | | | | | | |
|---------------------------|-------------|--|--|--|--|--|
| ILI Log Distance: | NA | | | | | |
| RMP-11 Ref. Section: | Table 5.6.2 | | | | | |
| Reference Girth Weld: | NA | | | | | |
| Distance From Girth Weld: | NA | | | | | |
| | | | | | | |

Excavation Drawing:

At minimum draw pipe elevation profile and indicate stationing of 1) low point and 2) critical inclination angle. Place an arrow on the drawing indicating direction of gas flow in the region(s). Other labels may also be added (e.g. "to Station").

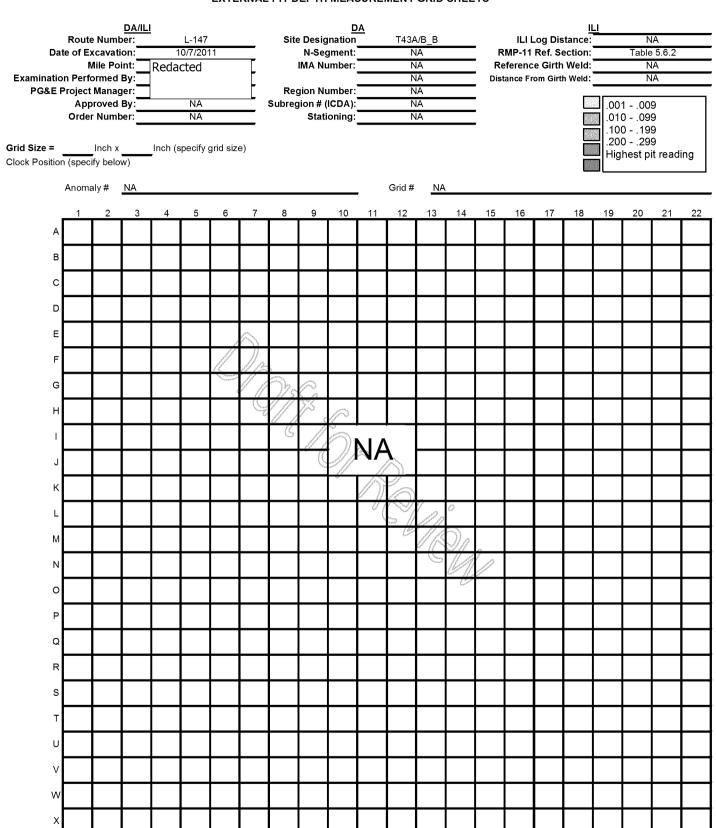


NOTES: (Record stationing and names of nearby landmarks such as creeks and roads. Provide any additional information that may help in spatially positioning pipe):

| *See attached Delorme screen shot on page 11. | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | | |
| • | | | | | | | | | | |

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

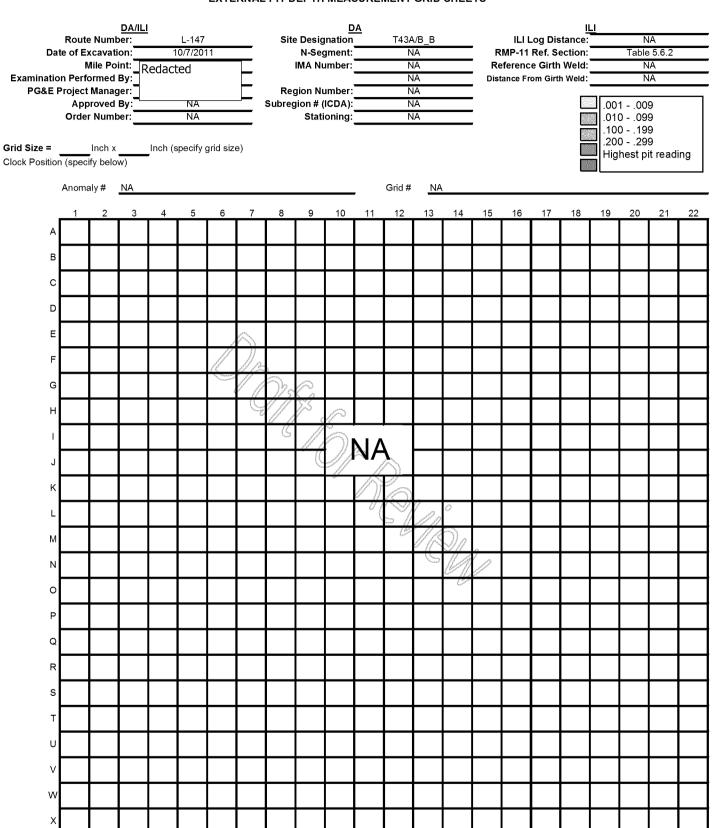
EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS



PIT DEPTH GRID 1 OF 2

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

EXTERNAL PIT DEPTH MEASUREMENT GRID SHEETS



PIT DEPTH GRID 2 OF 2

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

INTERNAL CORROSION WALL LOSS GRID

| DA/I | <u>LI</u> | <u>DA</u> | | <u>ILI</u> | |
|--|-----------|------------------------------------|----------------|---------------------------|-------------|
| Route Number: | L-147 | Site Designation | T43A/B_B | ILI Log Distance: | NA |
| Date of Excavation: | 10/7/2011 | N-Segment: | NA | RMP-11 Ref. Section: | Table 5.6.2 |
| Mile Point: | Redacted | IMA Number: | NA | Reference Girth Weld: | NA |
| Examination Performed By: | | | NA | Distance From Girth Weld: | NA |
| PG&E Project Manager: | | Region Number: | NA | | |
| Approved By: | NA | Subregion # (ICDA): | NA | _ | |
| Order Number: | NA | Stationing: | NA | _ | |
| _ | | _ | | _ | |
| Examination Performed By: PG&E Project Manager: Approved By: | | Region Number: Subregion # (ICDA): | NA NA NA | | |

Grid Size = 1 Inch x 1 Inch
Clock Position (specify below)
All measurements are in inches.

UT Grid is centered @ 6:00 position on pipe.

| _ | 1 | 2 | 3 | 4 | 5 | 6 \ | / 7 | 8 | 9 | 10 | 11 | 12 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Α | 0.251" | 0.251" | 0.249" | 0.249" | 0.249" | 0.249" | 0.249" | 0.248" | 0.248" | 0.248" | 0.248" | 0.248" |
| В | 0.251" | 0.254" | 0.251" | 0.251" | 0.249" | 0.249" | 0.249" | 0.249" | 0.248" | 0.248" | 0.248" | 0.249" |
| С | 0.253" | 0.251" | 0.251" | 0.251" | 0.251" | 0.251" | 0.251" | 0.249" | 0.249" | 0.258" | 0.249" | 0.249" |
| D | 0.251" | 0.251" | 0.251 | 0,251" | 0.251" | 0.249" | 0.250" | 0.249" | 0.249" | 0.248" | 0.247" | 0.249" |
| Ε | 0.251" | 0.251" | 0.251" | 0,251" | 0.251" | 0.251" | 0.251" | 0.251" | 0.247" | 0.248" | 0.247" | 0.248" |
| F | 0.251" | 0.251" | 0.251" | 0.251" | 0.249" | 0.249" | 0.251" | 0.249" | 0.249" | 0.247" | 0.248" | 0.249" |
| G | 0.251" | 0.251" | 0.247" | 0.246" | 0.249" | 0,248" | 0.247" | 0.247" | 0.246" | 0.247" | 0.248" | 0.247" |
| Н | 0.248" | 0.249" | 0.249" | 0.249" | 0.248" | 0.247" | 0.247 | 0.2470 | 0.246" | 0.246" | 0.246" | 0.246" |
| ı | 0.249" | 0.249" | 0.249" | 0.249" | 0.247" | 0.246" | 0.244" | 0.247" | 0.244" | 0.244" | 0.247" | 0.246" |
| J | 0.247" | 0.247" | 0.247" | 0.246" | 0.246" | 0.246" | 0.242" | 0.244" | 0.244" | 0.243" | 0.244" | 0.246" |
| К | 0.247" | 0.247" | 0.247" | 0.246" | 0.246" | 0.246" | 0.244" | 0.244" | 0.244" | 0.244" | 0.244" | 0.246" |
| L | 0.249" | 0.247" | 0.247" | 0.247" | 0.248" | 0.248" | 0.248" | 0.242" | 0.244" | 0.244" | 0.246" | 0.244" |

INTERNAL CORROSION GRID

1 of 1

COATING DAMAGE

| DA/I | <u>LI</u> | DA | | <u>ILI</u> | |
|---------------------------|-----------|---------------------|----------|---------------------------|-------------|
| Route Number: | L-147 | Site Designation | T43A/B_B | ILI Log Distance: | NA |
| Date of Excavation: | 10/7/2011 | N-Segment: | NA | RMP-11 Ref. Section: | Table 5.6.2 |
| Mile Point: | Redacted | IMA Number: | NA | Reference Girth Weld: | NA |
| Examination Performed By: | | _ | NA | Distance From Girth Weld: | NA |
| PG&E Project Manager: | | Region Number: | NA | | |
| Approved By: | NA | Subregion # (ICDA): | NA | | |
| Order Number: | NA | Stationing: | NA | _ | |

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

| DA/ | I <u>LI</u> | DA | | ILI | |
|---------------------------|-------------|---------------------|----------|---------------------------|-------------|
| Route Number: | L-147 | Site Designation | T43A/B_B | ILI Log Distance: | NA |
| Date of Excavation: | 10/7/2011 | N-Segment: | NA | RMP-11 Ref. Section: | Table 5.6.2 |
| Mile Point: | Redacted | IMA Number: | NA | Reference Girth Weld: | NA |
| Examination Performed By: | | _ | NA | Distance From Girth Weld: | NA |
| PG&E Project Manager: | | Region Number: | NA | | |
| Approved By: | NA | Subregion # (ICDA): | NA | | |
| Order Number: | NA | Stationing: | NA | | |

| IC or EC | FEET FROM REFERENCE | O'CLOCK | MAX PIT DEPTH (MILS) | MAX LENGTH (IN.) | MAX CIRC EXTENT (IN.) |
|----------|------------------------|---------|----------------------|------------------|-----------------------|
| NA | NA | NA | NA | NA | NA |
| INA | IVA | IVA | IVA | IVA | INA |
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PHOTO LOG

| DA/ | <u>ILI</u> | DA | | <u>ILI</u> | | |
|---------------------------|------------|------------------------------------|----------|---------------------------|-------------|--|
| Route Number: | L-147 | Site Designation | T43A/B_B | ILI Log Distance: | NA | |
| Date of Excavation: | 10/7/2011 | N-Segment: | NA | RMP-11 Ref. Section: | Table 5.6.2 | |
| Mile Point: | Redacted | IMA Number: | NA | Reference Girth Weld: | NA | |
| Examination Performed By: | | | NA | Distance From Girth Weld: | NA | |
| PG&E Project Manager: | | Region Number: | NA | _ | | |
| Approved By: | INA | ─ [™] Subregion # (ICDA): | NA | | | |
| Order Number: | NA | Stationing: | NA | _ | | |

| PHOTO NO. | LOCATION | DESCRIPTION | COMMENTS |
|--------------|----------|-----------------------------|----------|
| | *** | *See attached photo report. | |
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| Form H: D | irect Examination D | ata Sheet - Page 10 of | 10 | | | |
|-----------|-------------------------|--|--|---|--|-----------------|
| | DA/ILI | J | <u>DA</u> | | <u>ILI</u> | |
| | Route Number: | L-147 | Site Designation | T43A/B_B | ILI Log Distance: | NA |
| | Date of Excavation: | 10/7/2011 | N-Segment: | NA NA | RMP-11 Ref. Section: Reference Girth Weld: | Table 5.6.2 |
| Exami | nation Performed By: | Redacted | IMA Number: | NA NA | Distance From Girth Weld: | NA NA |
| | S&E Project Manager: | ┥ ┝ | Region Number: | NA | | |
| | Approved By: | NA NA | Subregion # (ICDA): | NA | | |
| | Order Number: | NA | Stationing: | NA | _ | |
| 3.0 REC | OAT DATA | | | | | |
| 3.1 | Sandblast Media: | Sharp Sho | t 30/60 | Anchor Profile Me | easurement: Average: 3.2 mils | |
| 3.2 | Pipe Recoated With: | | | | | |
| | Powercrete J | X Poly Tape | Bar-Rust 235 | Dev Grip 238 | Dev Tar 247 X Protal 720 | 00 PE Tape |
| 3.3 | For Epoxy Co | pating Systems, Record En | vironmental Condition: | - | - | _ |
| | Air Temperature: | | | Dew Point: 45.1 | °F | |
| | Pipe Temperature: | | R | elative Humidity: 51.4 | % | |
| | Time of Day: | 12:30 pm | | | _ | |
| 3.4 | Repair Coating Hard | Iness (If ARC Coating:) | | 82 6:00 - 79 79 6:00 - 75 | 9:00 - <u>79</u> 12:00 - 9:00 - <u>79</u> 12:00 - | 79 81 |
| 3.5 | Measured Coating T | hickness: US | 3:00 - 33.7 | 5:00 - 38.7 | 9:00 - 57.5 12: | 00 - 27.4 |
| 0.5 | measured Coating 1 | | | 6:00 - 28.6 | _ | 00 - 29.3 |
| | Holiday Tested?: | X Yes No | | | | |
| | Device Used: | ≓ | ngo Voltago Usa | d. UNIZ | Danair All Halidaya | VEC |
| | - | | · — | | Repair All Holidays. | 165 |
| 3.6 | Coupon Test Sta | ation installed?: | es X No ETS | Installed?: | Yes X No | |
| | If Yes, Date Installed: | <u>NA </u> | | | | |
| | Surface Configuration | ı:: 🔲 Fink 🔲/G | i-5 Box Carsonite | Other: 1 | NA . | |
| 3.7 | Backfill Material: | Native I | nported Sand | Other: | NA | |
| | Coating Protections?: | Yes No | | | | |
| | - | Rockguard | | onwed Other: | NIA | |
| • • | If Yes, Check One: | — — | (<i>J</i> 777∼ | onwed D Other. | IVA | |
| 3.8 | | gs Over Bell Hole After Bac ould be done for approximat | // | ba hall hala. Attach d | ata | |
| | • | odid be done for approximat | ery 100 on entirer side of t | Acadira | ata. | |
| | Comments: NA | | la de la deservación dela deservación de la deservación dela deservación de la deser | | | |
| | | | | | | |
| | | | | ///(\$\)) | 7 | |
| 3.9 | Attach site sketch of | f excavation site. | | - 'GW | | |
| 4.0 REPA | IR DATA | | | | | |
| 4.1 | Repair Made: | Yes X No | 4.2 Number of | Repair Made: NA^C | | |
| 4.3 | Repair Type | Metallic Sleeve | Non Metallic SI | eeve Repla | ce Can Filler Met | al Other |
| 4.4 | Damage Repaired: | Corrosi | — — | | her | — |
| 4.4 | Damage Repaired. | L Corrosi | JII IVIEC | marricar L | 1161 | |
| Mine Co | | T424 b | | | 41 | * 4 # - 5 |
| | mments/Information: | | | | iting up to test pipe tie in weld. Abou ld. About 1.5 ft of coating was inspe | |
| | was inspected at the Po | · | rao biaotoa mom ooaang a | p to toot pipe tie iii iie | wa. A boat 1.0 ft of boating was more | otou. I tomovou |
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INSPECTION & LIFE EXTENSION SERVICES

| | MAGNE | ETIC PARTICLE E | KAMINATION | REPORT | | | ☐ Nuclear | ✓ Non-N | Iuclear |
|--|----------------------|--------------------------------------|--------------------------------|--|-----------------------|---|---------------------------|-----------------|----------|
| To: Pacific Gas & Electric Company From: Redacted | | | | | | | Date: 10/7/2011 | | |
| Project: | | | T43A/B_L147_ | Redacte | ed | | | | |
| Purchase Order No | : | | GEIS | Job No: | | | | | |
| | | | | | | LAPI00 | 15 | | |
| | Weld | Structural Casting | g Machinery | Mach. Par | ts Pipe | N/A | Other: | | |
| | V | | | | 7 | | | N/A | |
| Item | Non-Weld | Plate Pipe | Bar | Casting | Mach. Part | s N/A | Other: | | |
| | V | | | | | | | N/A | |
| | Size | Material Thickness | Type of Base Mo | iterial | Type of Filler M | aterial | Weld | ✓ N/A | |
| Material | 20'' | 0.250" | Carbon Ste | eel | C/S | Smooth | SnAncolottle | lded As ₩ | /elded |
| | Redacted | | | yste | | | | | |
| Location | | | | | | ı | L-147 | | |
| Acceptance | | | | Proce | edure | | | | |
| Standards | | Customer Specific | ations | | G | EIS QCF | # 500 Rev | 15 | |
| - (-1 1 | Initial | Plate Edge In Proce | ss Back Gouge | Root Pas | s Repair | 12 | Hour 2 | 24 Hour | Final |
| Type of Check | V | | | | | | | | 7 |
| | Longitudinal | | DC P | robe | ✓ Continuo | us | Other: | | |
| | ✓ Wet | Dry |) Direct | t Contact | ✓ Residual | | | | |
| Type of Inspection | Circular | ☐ AC Prod | y Yoke | | Other | | | | |
| inspection | MT Volco C | Model - Serial No. / Black | light Model Cariel N | | | | | | |
| | | | // IT | The same of the sa | | | Preparation Met | | |
| | | -400 - S# 18830 / Spectr | /3.1: | 83. <i>]//</i> / | 0 | | (Kleen Blast) - I | | h |
| | | Inspection Medium / Colo | | | Den | nagnetizat | ion Method / E | quipment | |
| D. (| | lo 14A / Flourescen | | - // A- \ | 9),, | 1 | N/A | | |
| Reference: Summa | <u> </u> | | <u> </u> | ee Attachmen | | | Results of | Inspection | |
| | 1.35' from original | ted to be inspected: U/S ditch start | | | | - No relevan | t indications found | 0 time of insp. | |
| | 18.45' from original | | | | | No relevant indications found @ time of insp. | | | |
| Removed pipe sect Summary: | ion. | | | | | 2 Linear indi | ications were found | d. | |
| | =1.60' (From U/S en | id of pipe), AL=1.58" , CW | /=0.02 0 " , CLK Positi | on= 4:00 | | | | | |
| Lin-02: Axial Start= | =2.33' (From U/S en | d of pipe), AL=1.20", CW | | | | | | | |
| These are on the r | emoved pipe section | on. | | | | | | | |
| | | | | | | | | | |
| | he removed pipe sect | ion. Please see attached ph | oto report for addition | al information | | | | | |
| Сору То: | | | Requ | Requested By: | | | Reported By (Technician): | | |
| Pacific Gas & Electric Company | | | | Redacted | | | Redacted | | |
| GE Inspection Services (Los Angeles) | | | | | pecifications | | NDT superviso Redacte | r: ed | |
| NOTICE: THIS EXAMI | NATION REPORT IS A | REPORT OF THE RESULTS | OF THE NDT PROCEDU | Accept JRE ACTUALLY | Reject PERFORMED BY T | HIS COMPA | | | ITATIONS |
| | | ROCEDURES WHICH WER | | | | | | | |

GUARANTEE ANY CONDITION OF THE TESTED SPECIMEN.



GE Energy

Inspection & Life Extension Services

| ULTRASONIC EXAMINATION REPORT | | | | | | | ☐ Nuclear | ✓ Non-Nuclear | | |
|---|---------------------------------|--------------------|-------------------|-------------------------|------------------|----------------------|---------------------|------------------------|--|--|
| l'e | | | | | Redacted | 1 | Date: | | | |
| Pacific Gas & Electric Company | | | | | | | | 10/7/2011 | | |
| Project: | Project: T43A/B_L147_B Redacte | | | | | | | | | |
| Purchase Order | No: | | 1437,0_0 | GEIS Job No: | | | | | | |
| LAPIC | | | | | | | | | | |
| | Weld Struct | ural Casting | Machinery | Mach. Parts | Pipe | N/A | Other: | | | |
| Item | Non-Weld Plat | e Pipe | Bar | Castina | Mach. Parts | N/A | Other | | | |
| | Non-weid Pidt | | | Casting | Much. Parts | N/A | Other | | | |
| Material | Size: | No. of Pieces | | Base Metal | | ler Material | Weld | ✓ N/A | | |
| | 20'' Redacted | 1 | l Carbo | n Steel | | /S | Smooth | As Welded | | |
| Location | Reducted | | | | System | | L-147 | | | |
| Acceptance | | | | | Procedure | | | | | |
| Standards | c | ustomer Specific | ations | | | | QCP-601 | | | |
| | Soundness Thickn | ا يكسكم ا | | | Transducer | | | Transducer Serial No.: | | |
| | | | | Single Crystal uency | ☐ Dual Crystal | | | 020HFC | | |
| | Pulse Echo Angle-B | | | | Size | | ngle | Couplant / Batch # | | |
| | | |)75(5 MHz | | 0.375" | |)° | Sonatest Ultragel II | | |
| Type of | UT Equipment/Model USN | 60 | Flat | | Concave | Convex | | / 25-901 07225 AF | | |
| Inspection | Serial # 0 | | Standard Standard | | Material Notch | | n Depth | Serial No.: | | |
| | Calibration Date: | | | | | _ | | | | |
| | 10/5/2 | | Step Wedge | | Material | Thickness Range | | Serial No.: | | |
| | Calibration Du | ıе: 1/5/2012 | Tube Wedge | $=$ $/ \land$ | E/S | 0.200" - 0.500" V346 | | V34693 | | |
| Reference: Sur | mmary | | | ✓ See | Attachment | 0 | Results of I | nanaction: | | |
| The following | ng areas were req | uested to be ins | pected: | | | | Results of I | inspection. | | |
| 12" x 12" (1"x | 1" grid) at a random | 6:00 position on t | the pipe. | | - 4// | - No relevant | indications @ | time of inspection. | | |
| | n scans at cut-line l | | | | 6 | 13/1/11 / | | time of inspection. | | |
| Thickness readings US & DS inspection areas at the clock positions. | | | | | | | time of inspection. | | | |
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| ** Please see attached reports for additional information. | | | | | | | | | | |
| Copy To: Requested By: | | | | | | <u> </u> | Reported By | (Technician): | | |
| Pacific Gas & Electric Company | | | | | dacted | | Reda | cted | | |
| GE Inspection Services (Los Angeles) | | | | | er Specification | ons NDT Supervisor: | | | | |
| ✓ Accept | | | | ✓ Accept | Reject | eject Redacted | | | | |
| -17-1 | | | | | | | | | | |

NOTICE:

THIS EXAMINATION REPORT IS A REPORT OF THE RESULTS OF THE NDT PROCEDURE ACTUALLY PERFORMED BY THIS COMPANY IT IS SUBJECT TO THE LIMITATIONS OF THE TESTING SPECIFICATIONS AND PROCEDURES WHICH WERE UTILIZED. BY FURNISHING THIS REPORT, GE INSPECTION SERVICES DOES NOT GUARANTEE ANY CONDITION OF THE TESTED SPECIMEN.



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



Overview of Reference Girth Weld measurments were taken from.



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



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



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



Page 17 of 29



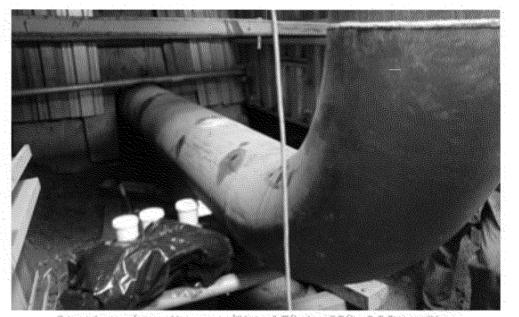
Overview of coating condition -1ft to 2ft, 9:00 position



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



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



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



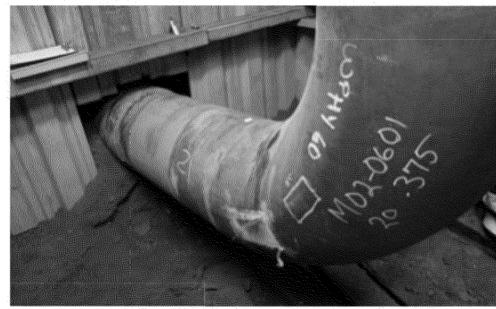
Page 18 of 29



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



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



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



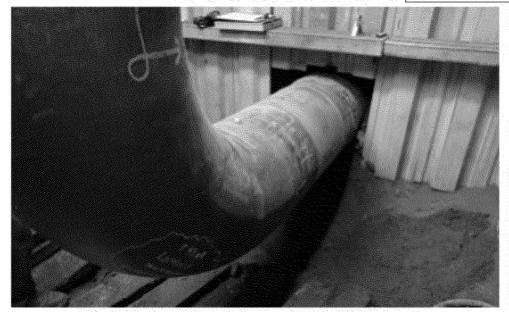
Overview of MPI layout -1ft to 2ft, 900 position



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Redacted

GE Energy Inspection



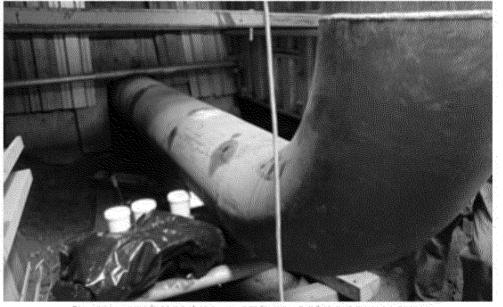
Overview of MPI layout -1ft to 2ft, 9:00 position



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



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



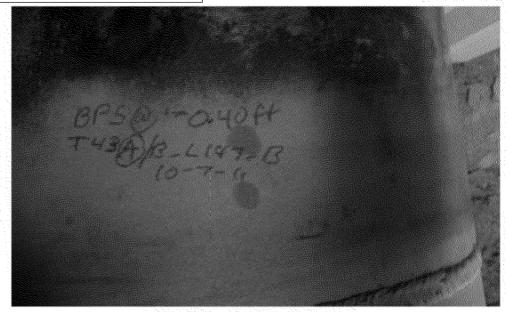
Overview of MPI layout 17ft to 20ft, 9:00 position



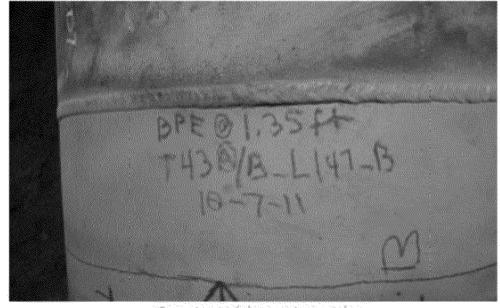
Page 20 of 29



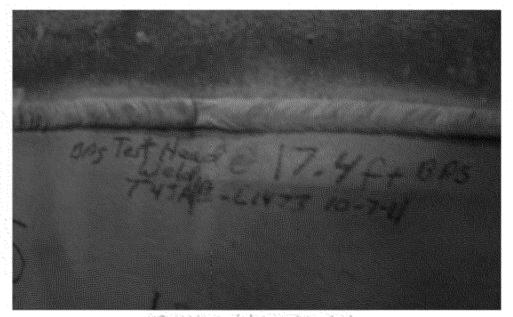
Overview of MPI layout 17th to 20th, 900 position



Overview of bare pipe start



Overview of bare pipe end

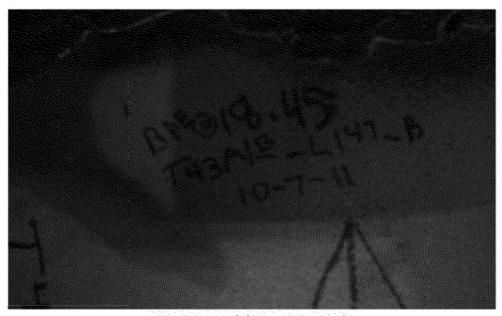


Overview of bare pipe start

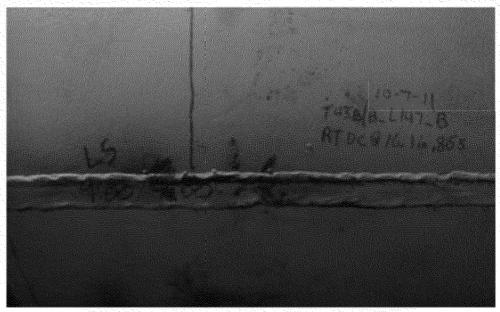


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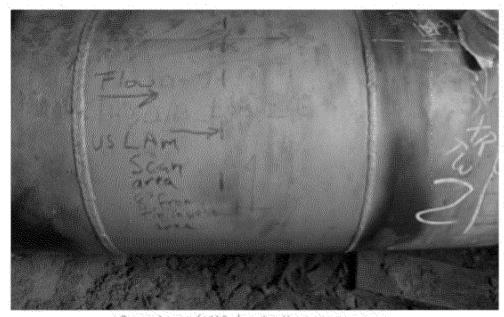




Overview of bare pipe end



Overview of feature joint long seam @ 8:55



Overview of US lamination scan area.



Overview of DS lamination scan area.



Page 22 of 29

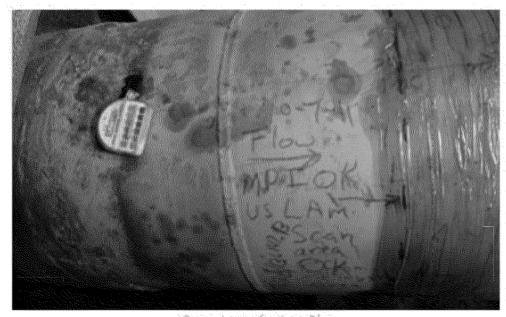
Redacted



Overview of US MPIOK and Lamination scan OK.



Overview DS of MPIOK and Lamination scan OK.



Overview of pipe Ph.



Closeup of pipe Ph



Page 23 of 29



Removed pipe section coating assesment 3:00



Overview of coating condition 300 position



Overview of coating condition 300 position



Overview of coating condition 3:00 position



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Redacted

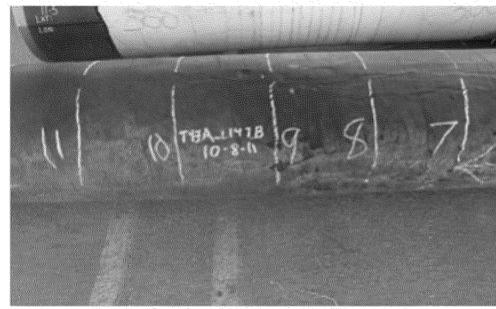
GE Energy Inspection



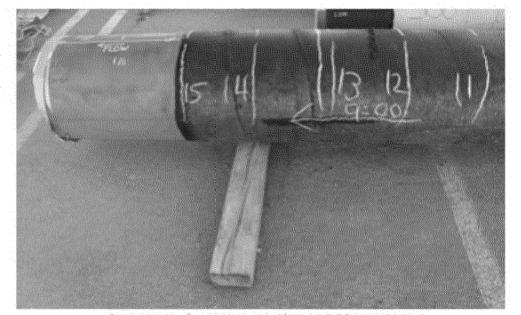
Removed pipe section coating assessment 9:00



Overview of coating condition 9:00 position



Overview of cooting condition 9:00 position

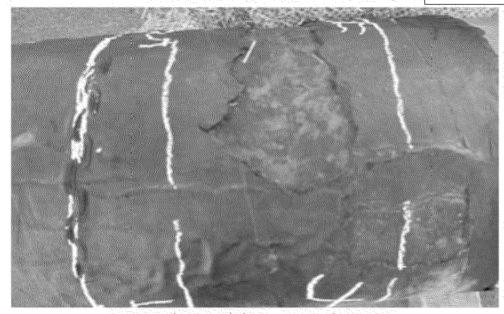


Overview of coating condition 9:00 position

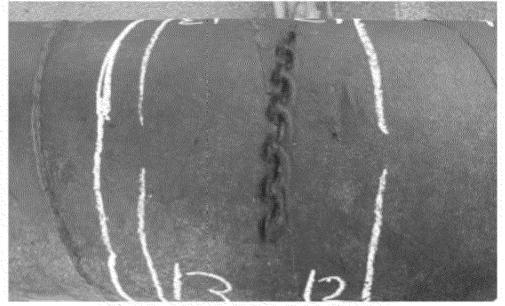


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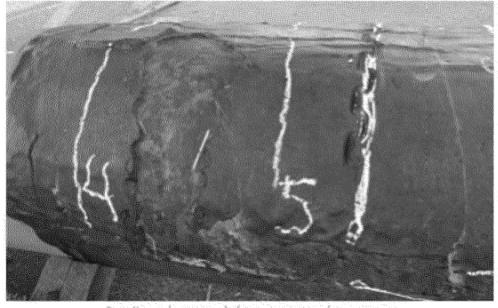




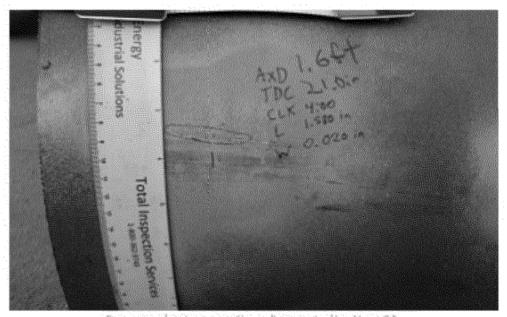
Coating damaged from removal process.



Coating damaged from removal process.



Coating damaged from removal process.

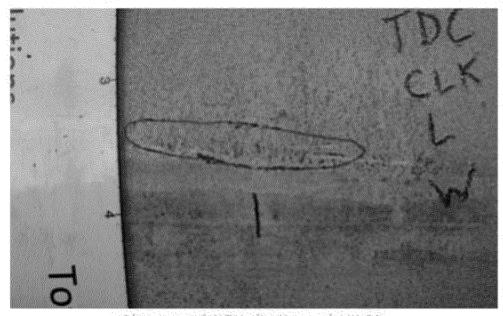


Removed pipe section linear indication-01

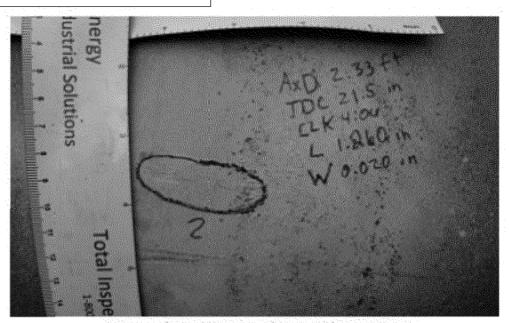


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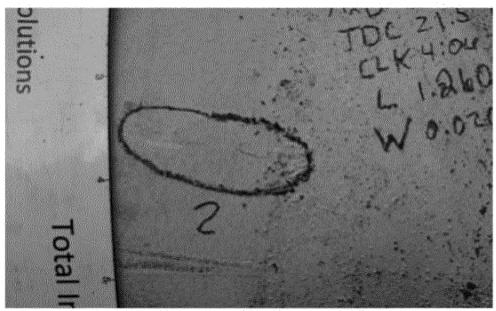
Redacted



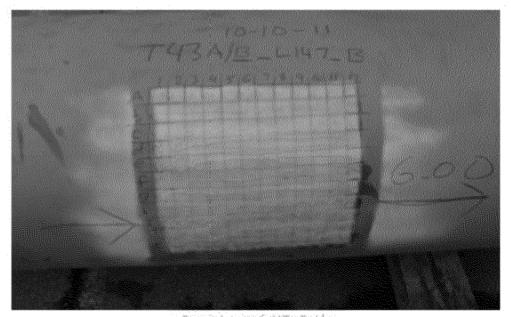
Close up of MT Indications of LIN-01



Removed pipe section linear indication-02



Close up of MT Indications of LIN-02



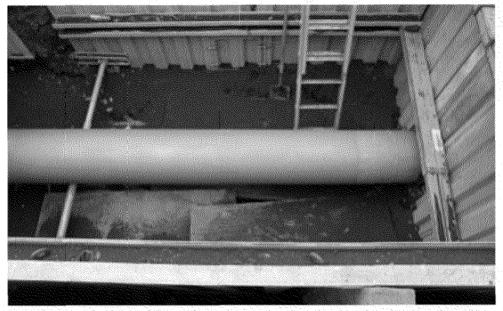
Overview of UT Grid.



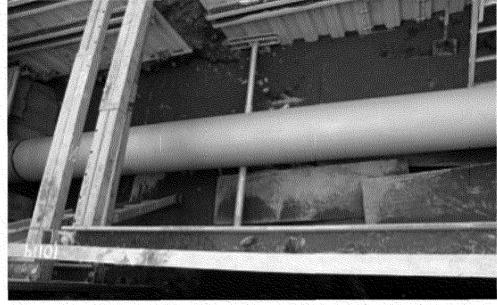
Page 27 of 29

Redacted

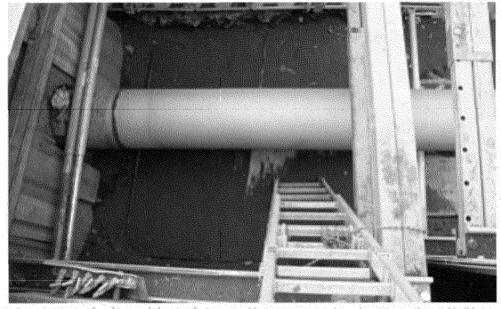
GE Energy Inspection



Overview of clean blasted inspection area prior to recoal activities



Overview of clean blasted inspection area prior to recoal activities



Overview of clean blasted inspection area prior to recoal activities



Overview of final coating condition US 3:00



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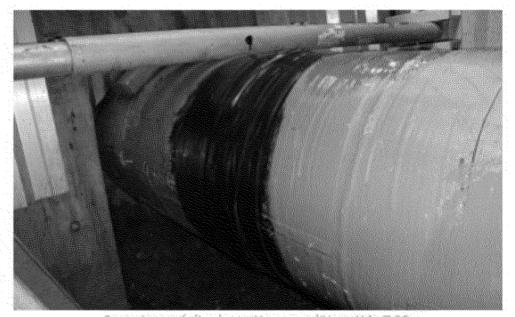
Overview of final coating condition 300



Overview of final coating condition 3:00



Overview of final coating condition 3:00



Overview of final coating condition US 300



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