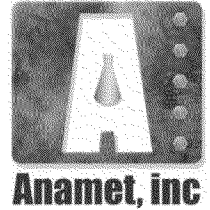


LABORATORY CERTIFICATE



August 19, 2013

LABORATORY NUMBER: 5004.9237
CUSTOMER AUTHORIZATION: Credit Card
DATE SUBMITTED: August 16, 2013
REPORT TO: Pacific Gas & Electric Co.
Attn: Redacted
Redacted

SUBJECT:
One pipe section was submitted for tensile testing and metallurgical evaluation. The sample was identified as Pipe Segment from L147, 20" Diameter.

TRANSVERSE TENSILE TEST (ASTM A370-10)

| | <u>Weld Metal</u> | <u>Parent Metal</u> |
|------------------------------|-------------------|---------------------|
| Dimensions of Specimen (in.) | | |
| Width | 1.508 | 1.508 |
| Thickness | 0.257 | 0.254 |
| Area (sq. in.) | 0.388 | 0.383 |
| Tensile Strength (psi) | 58700 | 61800 |
| Yield Strength (psi)* | 42900 | 39300 |
| Elongation in 2.0 Gage (%) | 11 | 41 |
| Fracture Location | Weld | - |
| Fracture Characteristic | Ductile** | - |

*Upper Yield Strength (formerly Y.P.) 0.5% E.U.L.; **Indication observed

MACROTECH EXAMINATION

A cross section through the weld was polished and etched. Photographs of the weld are attached. The weld appears to be an A.O. Smith type weld.

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Lab. No. 5004.9237

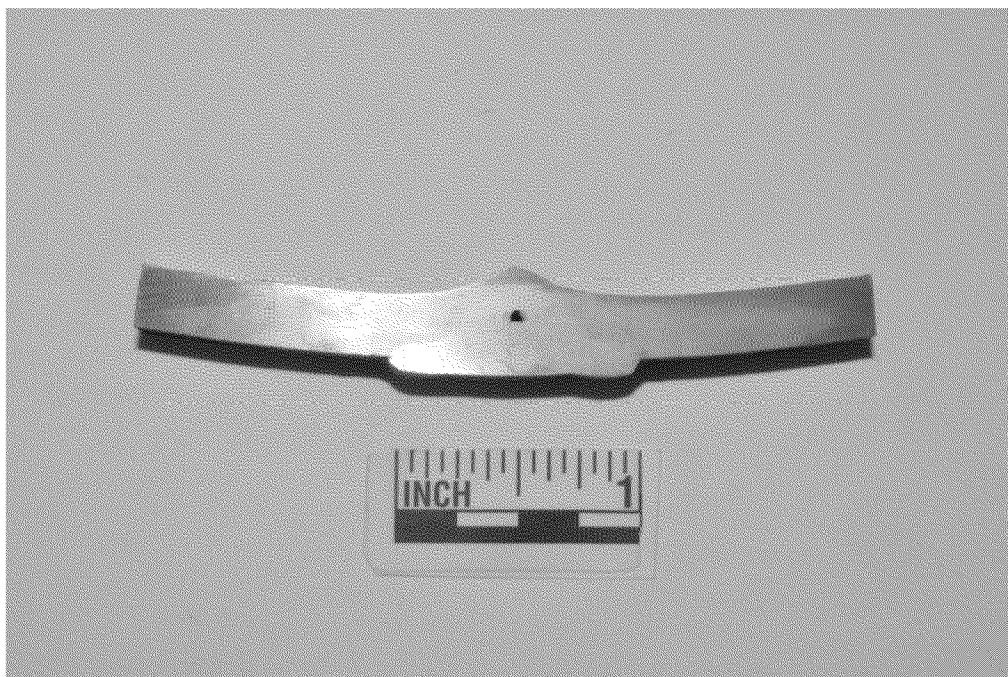


Photo #1

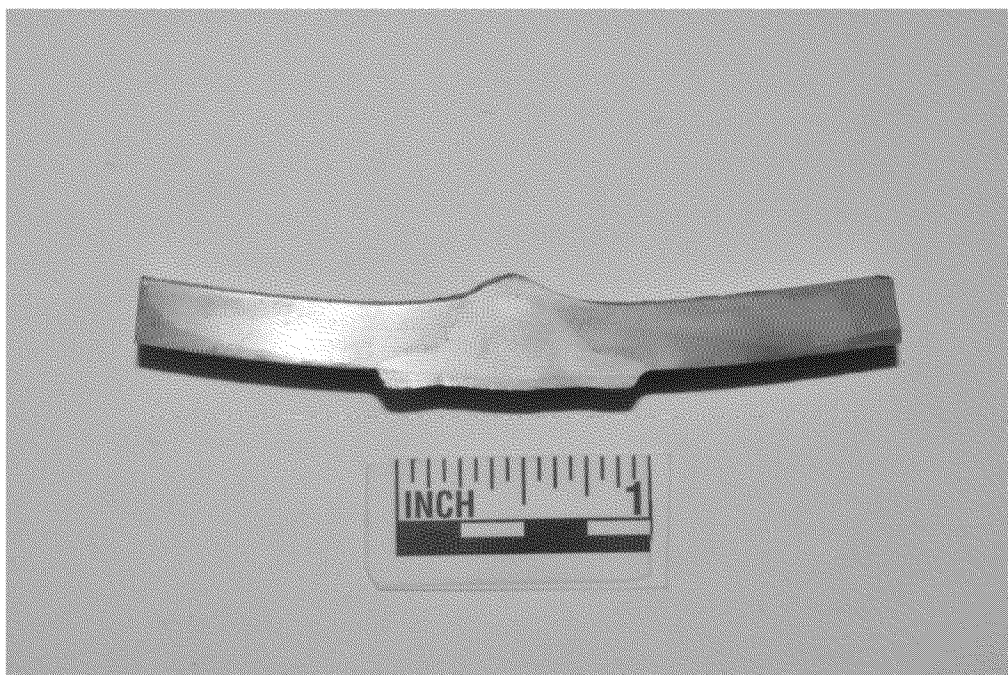
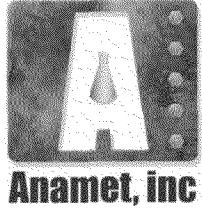


Photo #2, opposite side of Photo #1

LABORATORY CERTIFICATE



Lab. No. 5004.9237

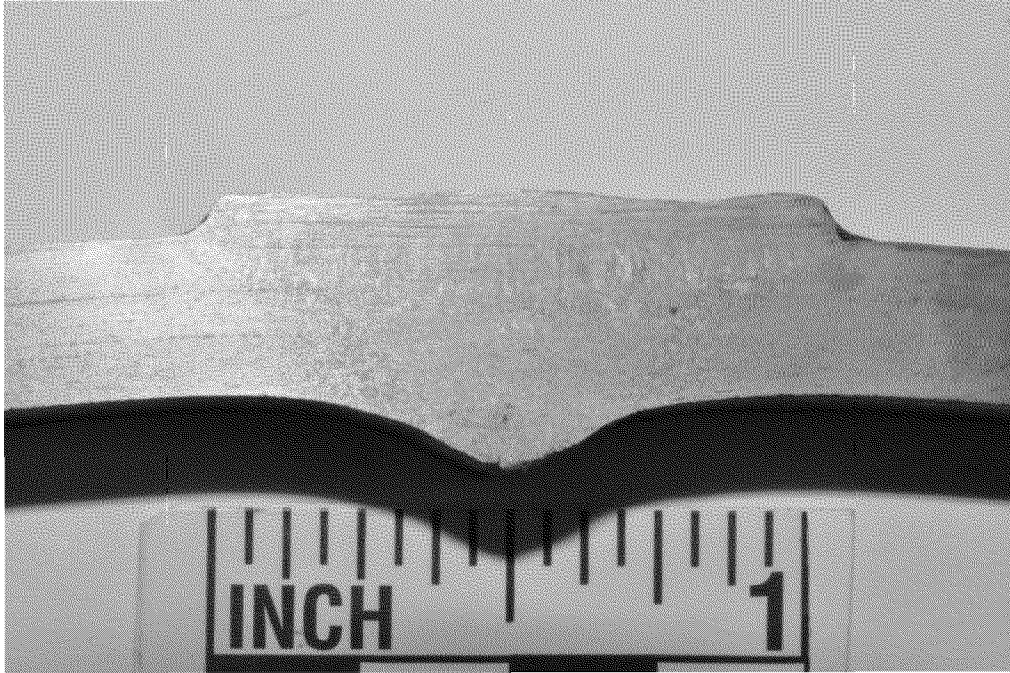


Photo #3

This testing was completed on August 19, 2013 and performed in accordance with the customer's authorization.

Submitted by:

Redacted

Quality Manager

gj