

Asset Number: 011117

Procedure: TEMPERATURE PROBES - 5 JUN 06

** Results: FOUND-LEFT Temperature: 78.0 °F Humidity: 34 %RH Barometer: N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCSL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U.S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Data type found in this certificate or attached measurement report must be interpreted as: Found-left - adjustment and/or repair was not performed, As-found - data is before unit is adjusted and/or repaired, As-left - data is after adjusted and/or repaired was performed. The customer has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance.

Measurement uncertainty calculated in accordance with the method described in the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM), for a confidence level of approximately 95 percent using a coverage factor of k=2.

Remarks: Cal'd at 900°, 1000°, and 1100 °C.

Standards Used

Asset #	<u>Manufacturer</u>	Model
010814	HART SCIENTIFIC	1529
013617	HART SCIENTIFIC	5650

Description
THERMOCOUPLE THERMOMETER
THERMOCOUPLE, TYPE S

Cal Date **Due Date** 4-Dec-2009 4-Dec-2010 29-Dec-2009 29-Dec-2010

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Laboratory Manager m:\A2LA OCT 08.rpt

Mark Romero

Metrology Technician

Southwest Research Institute Calibration Laboratory Measurement Report

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Work Order:	303091829	Mfr.	Omega		Technician:	Mark R	omero
Asset No.	011117	Model	Туре К		Type Data:	Found-left	
Serial No.	11117	Туре.	Thermocouple		Cal Date:	13-Jan-10	
Function/Range	Test Point	TI Reading	Difference	+/- Limit	+/- Uncertainty	Result	% Limi
Function/Range	Test Point °C	<u>TI Reading</u> °C	Difference °C	+/- Limit °C	+/- Uncertainty °C	Result	% Limi

1000.038 -0.567 1101.304 -0.356 END OF REPORT 7.5

8.3

1.3

1.3

Pass

Pass

8%

4%

1000.605 1101.660