

Q200604260004 Instrument calibration record for ERTCO Thermometer, Model # ASTM 1C, Serial # F98-393 (03/30/2006) 120

## **Bob Trollinger**

From:	Don Bannon [dbannon@cnwra.swri.edu]			
Sent:	Friday, March 03, 2006 1:43 PM			
То:	'Bob Trollinger'			

Subject: RE:

Bob---

Please categorize as Limited Calibration. We will continue to use it in the readable range.

Thank you, --Don

Don Bannon - Staff Technician Geology & Geophysics, CNWRA Southwest Research Institute 6220 Culebra Road San Antonio, TX 78238 210-522-5118 dbannon@swri.org

> -----Original Message----- **From:** Bob Trollinger [mailto:robert.trollinger@swri.org] **Sent:** Friday, March 03, 2006 1:36 PM **To:** don.bannon@swri.org **Subject:**

Reply with isntructions. Thanks

## SOUTHWEST RESEARCH INSTITUTE®

To:	Don Bannon, Div 20, B	Ext 5118
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From: Institute Calibration Laboratory; Bob Trollinger

Date: March 3, 2006

Subject: Review of Work Request Number 303068133

The work you requested is held pending your review. Please review the information provided and respond with your approval or further instructions for work to proceed. Return a signed copy via mail to Cal Lab Bldg 64, FAX (522-4834) or reply to this email. If you have questions or require additional information please call 522-5215.

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Unit Received: mar 01, 2006 Work Requested: Cal

Manufacturer: Ertco Model: ASTM 1C Description: Thermometer

Serial Number: F98-393 Asset Number: 7304 User ID:

Cause of Review: Not readable below 0.0°C. Unit can be used with a limitation or removed from service. How do you wish to proceed?

If no relpy has been received by Mar 15, 2006 the unit will be returned without action.

Approved () Disapproved return unit as is ()

Instructions ()

Authorized by \_

Print or Type Name

Signature

Date:

Thank you for your timely response, ,

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Walt Hill, Metrology Group Leader Institute calibration Laboratory

		6	220 Culebra Road, P Institute Qualit Institute Calibratio Ione: 210-522-5215	y Systems on Laboratory Fax 210-522-4834	ТЕ <sup>®</sup>	Accredited Certificate #
	®		Certificate of	Calibration		0972-01
	Submitted By:	DIV20		Work Order:	303068133	
	Address:	B57		Date Issued:	Mar 2, 2006	
		DON BANNON		Calibration Date:	,	
Man		ERTCO ASTM IC		*Calibration Due:	•	
	Description: Serial No:	THERMOMETER		Calibration Location:	+	Hum. 40 %RH
	Asset No:			Environment: **Data Type:	FOUND-LEFT	
		TEMPERATURE, JAN/	04	Data Type.	FOUND-LEFT	
this date. determin Reported uncertair	**Found/Left = adju ation of in-/out-of-tol uncertainty calculate	astment and/or repair was not erance or compliance/noncor ed in accordance with the ISC ctor of $k=2$ to approximate a	required, As Left = adjus npliance. See Remarks of "Guide to the Expression"	ance as any number of factors may control and/or repaired was required. The attached Measurement Report with the of Uncertainty in Measurement" (Gi	e client has sole re he same Work Orc	sponsibility for ler number for data
	rds Used Serial No.	Manufacturer	Model	Description		Cal Due
009137	A21208	HART SCIENTIFIC	1575	THERMOMETER		Jun 19, 06
010281	0421	HART SCIENTIFIC	5628	SPRT		Jun 24, 08

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Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Bob Metrology Technician

Page 1 of 1

## Southwest Research Institute Calibration Laboratory Measurement Report

Work Order:	303068133	Mfr:	ETRCO		Technician:	blt		
Asset No:	007304	Model:	ASTM 1C					
Serial No:	F98-393	Type:	THERMOMETER		Cal Date:	02-Mar-06		
Remarks: Accuracy Reference ANSI Z236.1-1983								
Not Calibrated below 0.0 °C								
Function/Range	Test Point	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left		
Temperature	°C	°C	°C	°C	°C	Result		
	-19.89	Unreadable	#VALUE!	0.5	0.29	###### ######		
	0.04	0.5	0.5	0.5	0.29	Pass		
	49.97	50.0	0.0	0.5	0.29	Pass		
	99.89	100.0	0.1	0.5	0.29	Pass		
	149.89	150.0	0.1	0.5	0.29	Pass		
		END (	OF REPORT					

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