



Certificate of Calibration & Compliance For:
ILLIANA INSTRUMENTATION SERVICE
1831 GOVERT DRIVE
SCHERERVILLE, IN 46375



CALIBRATION
NVLAP LAB CODE: 200496-0

*NVLAP is a U.S. Government entity
administered by the NIST, an agency
of the Department of Commerce.*

GeoCorp, Inc.

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17025 Accredited Lab

Item 1643

Calibration #	S-9875	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			FRONT	BACK	FRONT	BACK	
Degree: °	F	Point					
		32	31.6	31.8	0.4	0.2	0.3
P.O. #:	3715	250	249.2	249.3	0.8	0.7	0.8
Description: Type: N Thermocouple 4 ea. 4-36N1U1 (1/4" X 36")		500	500.2	500.0	-0.2	0.0	-0.1
		750	749.7	749.7	0.3	0.3	0.3
		1000	1000.1	1000.3	-0.1	-0.3	-0.2
		1250	1250.9	1251.2	-0.9	-1.2	-1.0
		1500	1502.3	1502.6	-2.3	-2.6	-2.4
		1750	1753.5	1753.8	-3.5	-3.8	-3.6
		2000	2005.0	2005.4	-5.0	-5.4	-5.2
		2250	2256.5	2256.8	-6.5	-6.8	-6.6
		2300	2306.7	2307.0	-6.7	-7.0	-6.8
Spool #	MG16982C						
Test Date:	2/10/2017						
Job #	192407						

This Item meets ASTM E230 Special Limits Standard Limits New Calibration Recalibration

BAC 5621 K, Table IV +/- 2 °F (+/- 1.1° C) to 1000° F, +/- 0.4% above AMS 2750 E Noble Metal +/- 1° F (+/- 0.6° C) or +/-0.1%

BAC 5621 K, Table IV, FL 4 +/- 2 °F (+/- 1.1° C) or +/- 0.4% AMS 2750 E Base Metal +/- 2° F (+/- 1.1° C) or +/- 0.4%

The calibrated equipment used for this test, listed below, is maintained in accordance with AMS 2750E, BAC 5621K (no PSD's), ANSI/NCSL Z540-3, ISO 10012, ISO/IEC 17025, RPS 953, PWA (F-40). Measurement results are traceable to standards maintained at the NIST. Test methods are per ASTM E220-13, ASTM E230/E230M-12, GEOCORP QW-001-N

NIST SENSOR: 288994 Calibrated: 8/26/2016 Due: 8/26/2017 Type: S	Working Std: A-3853 Calibrated: 2/4/2017 Due: 2/4/2018 Type: S	Instrument: Keithley 2701 S/N: 1118487 Calibrated: 8/23/2016 Due: 8/23/2017	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: bw by: ck
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Estimated uncertainty, k=2, 95%
Thermocouple Types-K and N: -196° C to <0° C = .71° C; 0° C to 1093 = .89° C; >1093 to 1344 = 1.9° C
Thermocouple Type-J: -196° C to <0° C = .70° C; 0° C to 760° C = .88° C

Mike J. For...
NOREEN ROTH
APPROVED SIGNATORY

Type: N Thermocouple

GRAPH DATA

VARIATION FROM TRUE TEMPERATURE

