



GeoCorp, Inc.

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17025 Accredited Lab

**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.

**Item 1650**

Calibration #	T-3403	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			Point	FRONT	BACK	FRONT	
Degree:	° F						
P.O. #:	3729	100	100.1	100.1	-0.1	-0.1	-0.1
Description: TYPE-K THERMOCOUPLE WIRE K20-2-HC 1000'		200	200.3	200.3	-0.3	-0.3	-0.3
		400	400.6	400.6	-0.6	-0.6	-0.6
		600	601.1	601.2	-1.1	-1.2	-1.2
		800	801.1	801.1	-1.1	-1.1	-1.1
		1000	1001.6	1001.7	-1.6	-1.7	-1.6
		1200	1202.2	1202.3	-2.2	-2.3	-2.2
		1400	1402.8	1402.9	-2.8	-2.9	-2.8
		1600	1603.1	1603.2	-3.1	-3.2	-3.2
		1800	1803.2	1803.3	-3.2	-3.3	-3.2
		2000	2003.4	2003.5	-3.4	-3.5	-3.4
		2200	2204.4	2204.5	-4.4	-4.5	-4.4
		2300	2304.7	2304.8	-4.7	-4.8	-4.8
Spool #	GK70325-5-3B						
Test Date:	5/6/2017						
Job #:	194485						

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-3877 Calibrated: 4/26/2017 Due: 4/26/2018 Type: S	Instrument: Keithley 2701 S/N: 1030819 Calibrated: 8/2/2016 Due: 8/2/2017	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: CT by: CT
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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

*Noreen Roth*  
**NOREEN ROTH**  
**APPROVED SIGNATORY**

**TYPE-K THERMOCOUPLE WIRE**

