



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 1668

Calibration #	Y-2051	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			FRONT	BACK	FRONT	BACK	
Degree: °	F	Point					
		32	32.2	32.3	-0.2	-0.3	-0.2
P.O. #:	3915	100	100.3	100.3	-0.3	-0.3	-0.3
		200	200.4	200.5	-0.4	-0.5	-0.4
Description:	Thermocouple Wire	400	400.8	400.8	-0.8	-0.8	-0.8
TYPE	K	600	600.7	600.8	-0.7	-0.8	-0.8
500'	K20-2-HG	800	801.0	801.1	-1.0	-1.1	-1.0
		1000	1001.6	1001.7	-1.6	-1.7	-1.6
		1200	1202.0	1202.1	-2.0	-2.1	-2.0
		1400	1402.5	1402.6	-2.5	-2.6	-2.6
		1600	1603.0	1603.0	-3.0	-3.0	-3.0
Spool #	GK80913-7-12						
Test Date:	10/22/2018						
Job #:	215961						

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

BAC 5621 L, Table V, +/- 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 L, Table V, 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 5621L (no PSD's), ANSI/NCSS 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-17, GEOCORP QW-001-O

NIST SENSOR: 290656 Calibrated: 1/2/2018 Due: 1/2/2019 Type: S	Primary Sensor: A-4067 Calibrated: 9/24/2018 Due: 9/24/2019 Type: S	Primary Inst: Keithley 2701 S/N: 1030819 Calibrated: 3/6/2018 Due: 3/6/2019	Humidity: 40% Nominal Ambient Temp: 72° F Immersion Depth: 24" tech: AG by: AG
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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

[Signature]
NOREEN ROTH
 APPROVED SIGNATORY

TYPE K Thermocouple Wire

