



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



CALIBRATION
 NVLAP LAB CODE: 200496-0

GeoCorp, Inc.
 www.geocorpinc.com
 9010 River Road • Huron, Ohio 44839
 P: 419-433-1101 F: 419-433-1102
 17025 Accredited Lab

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

Calibration #	BA4057	Temperature	Reading		Correction		ASTM E29 AVG. CORRECTION
			FRONT	BACK	FRONT	BACK	
Degree: °	F	Point					
		32	31.9	31.9	0.1	0.1	0.1
P.O. #:	4103	100	99.9	99.9	0.1	0.1	0.1
		200	200.1	200.1	-0.1	-0.1	-0.1
Description:	Thermocouple Wire	400	400.5	400.5	-0.5	-0.5	-0.5
TYPE	K	600	600.2	600.2	-0.2	-0.2	-0.2
500'	K20-2-HG	800	800.7	800.7	-0.7	-0.7	-0.7
		1000	1001.4	1001.4	-1.4	-1.4	-1.4
		1200	1202.1	1202.2	-2.1	-2.2	-2.2
		1400	1402.9	1403.0	-2.9	-3.0	-3.0
		1600	1603.7	1603.9	-3.7	-3.9	-3.8
Spool #	GK00514-16-5						
Test Date:	6/18/2020						
Job #:	238538						

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/NCSL Z540-3, ISO 10012, ISO/IEC 17025, RRP 54000, PWA (F-40). Measurement results are traceable to standards maintained at the NIST. Test methods are per ASTM E220-19, ASTM E230/E230M-17, GEOCORP QW-001-0

NIST SENSOR: 292827 Calibrated: 11/22/2019 Due: 11/22/2020 Type: S	Primary Sensor: A-4243 Calibrated: 4/24/2020 Due: 4/24/2021 Type: S	Primary Inst: Keithley 2701 S/N: 1212892 Calibrated: 8/14/2019 Due: 8/14/2020	Humidity: 40% Nominal Ambient Temp 72° F Immersion Depth: 24" tech: BW by: BW Issue Date: 6/18/2020
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Estimated uncertainty, k=2, 95 %
 Thermocouple Types-K and N: -196 °C to < 0 °C = 0.71 °C; 0 °C to 1093 = 0.89 °C; >1093 to 1344 = 1.9 °C
 Thermocouple Type-J: -196 °C to < 0 °C = 0.70 °C; 0 °C to 760 °C = 0.88 °C

[Signature]
NOREEN ROTH
 APPROVED SIGNATORY

