



**Certificate of Calibration & Compliance For:**  
**ACCURATE CALIB. & REPAIR SERV., INC**  
 1924 PINNACLE DR.  
 AURORA, IL 60502



CALIBRATION  
 NVLAP LAB CODE: 200496-0

GeoCorp, Inc.

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ISO / IEC 17025 Accredited Lab

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| Calibration # | BE4196            | Temperature | Reading |        | Correction |      | AVG. CORRECTION |
|---------------|-------------------|-------------|---------|--------|------------|------|-----------------|
|               |                   |             | FRONT   | BACK   | FRONT      | BACK |                 |
| Degree: °     | F                 | Point       |         |        |            |      |                 |
|               |                   | 200         | 200.1   | 200.1  | -0.1       | -0.1 | -0.1            |
| P.O. #:       | 2353              | 300         | 299.9   | 299.9  | 0.1        | 0.1  | 0.1             |
|               |                   | 400         | 399.6   | 399.6  | 0.4        | 0.4  | 0.4             |
| Description:  | Thermocouple Wire | 500         | 499.3   | 499.3  | 0.7        | 0.7  | 0.7             |
| TYPE          | K                 | 600         | 599.0   | 599.0  | 1.0        | 1.0  | 1.0             |
| 1000'         | K20-2-HR          | 700         | 699.1   | 699.1  | 0.9        | 0.9  | 0.9             |
|               |                   | 800         | 799.3   | 799.3  | 0.7        | 0.7  | 0.7             |
|               |                   | 900         | 899.5   | 899.6  | 0.5        | 0.4  | 0.4             |
|               |                   | 1000        | 999.8   | 999.9  | 0.2        | 0.1  | 0.2             |
|               |                   | 1100        | 1100.1  | 1100.2 | -0.1       | -0.2 | -0.2            |
|               |                   | 1200        | 1200.5  | 1200.6 | -0.5       | -0.6 | -0.6            |
|               |                   | 1300        | 1300.9  | 1301.0 | -0.9       | -1.0 | -1.0            |
|               |                   | 1400        | 1401.3  | 1401.4 | -1.3       | -1.4 | -1.4            |
|               |                   | 1500        | 1501.7  | 1501.8 | -1.7       | -1.8 | -1.8            |
|               |                   | 1600        | 1602.1  | 1602.2 | -2.1       | -2.2 | -2.2            |
|               |                   | 1700        | 1702.5  | 1702.6 | -2.5       | -2.6 | -2.6            |
| Spool Length: | 1000'             | 1800        | 1802.8  | 1803.0 | -2.8       | -3.0 | -2.9            |
|               |                   | 1900        | 1903.1  | 1903.3 | -3.1       | -3.3 | -3.2            |
| Spool #       | GK31204-2-1B      | 2000        | 2003.4  | 2003.6 | -3.4       | -3.6 | -3.5            |
|               |                   | 2100        | 2103.7  | 2103.9 | -3.7       | -3.9 | -3.8            |
| Test Date:    | 12/16/2023        | 2200        | 2204.0  | 2204.2 | -4.0       | -4.2 | -4.1            |
|               |                   | 2300        | 2304.2  | 2304.4 | -4.2       | -4.4 | -4.3            |
| Job #:        | 279609            |             |         |        |            |      |                 |

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

BAC 5621 M, Table V +/- 2.0 °F (+/- 1.1 °C) to 1000 °F, +/- 0.4% above  AMS 2750 G Noble Metal +/- 1.0 °F (+/- 0.6 °C) or +/- 0.1%

BAC 5621 M, Table V, FL 4 +/- 2.0 °F (+/- 1.1 °C) or +/- 0.4%  AMS 2750 G Base Metal +/- 2.0 °F (+/- 1.1 °C) or +/- 0.4%

The calibrated equipment used for this test, listed below, is maintained in accordance with AMS 2750G, BAC 5621M (no PSD's), ANS/NC SL 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-P, ASTM E29

|   |  |  |   |
|---|--|--|---|
| NIST SENSOR: 0000049061<br>Calibrated: 5/5/2023<br>Due: 5/5/2024<br>Type: S | Primary Sensor: A-4534<br>Calibrated: 12/7/2023<br>Due: 12/7/2024<br>Type: S | Primary Inst: Keithley 2701<br>S/N: 1212892<br>Calibrated: 7/7/2023<br>Due: 7/7/2024 | Humidity: 40% Nominal<br>Ambient Temp 72° F<br>Immersion Depth: 24"<br>tech: BW by: BW<br>Issued Date: 12/16/2023 |
|---|--|--|---|

Estimated uncertainty, k=2, 95 %  
 Thermocouple Type-K: -196 °C to < 0 °C = 0.71 °C; 0 °C to 1093 = 0.89 °C; >1093 °C to 1344 °C = 1.90 °C  
 OR .321 °F to < 32 °F = 1.28 °F, 32 °F to 1999 °F = 1.60 °F, > 1999 °F to 2451 °F = 3.42 °F  
 Thermocouple Type-N: -196 °C to < 0 °C = 0.71 °C; 0 °C to 1093 = 0.89 °C; >1093 °C to 1300 °C = 1.90 °C  
 OR .321 °F to < 32 °F = 1.28 °F, 32 °F to 1999 °F = 1.60 °F, > 1999 °F to 2372 °F = 3.42 °F  
 Thermocouple Type-J: -196 °C to < 0 °C = 0.70 °C; 0 °C to 760 °C = 0.88 °C  
 OR .321 °F to < 32 °F = 1.26 °F; 32 °F to 1400 °F = 1.58 °F

*Noreen Roth*  
 NOREEN ROTH  
 APPROVED SIGNATORY

TYPE  
**K Thermocouple Wire**

