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GeoCorp, Inc.

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GeoCorp, Inc.

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9010 River Road • Huron, Ohio 44839

P: 419-433-1101 F: 419-433-1102

17025 Accredited Lab

Certificate of Calibration & Compliance For:

HELIGEAR ACQUISITION CO.

6006 WEST 73RD ST.

D/B/A NORTHSTAR AEROSPACE (CHICAGO) INC.

BEDFORD PARK, IL 60638



CALIBRATION

NVLAP LAB CODE: 200496-0

NVLAP is a U.S. Government entity

administered by the NIST, an agency

of the Department of Commerce.

Calibration #	S-6462	Temperature	Reading		Correction		ASTM E29 AVG.
Degree: °	F	Point	FRONT	BACK	FRONT	BACK	CORRECTION
		200	200.0	200.1	0.0	-0.1	0.0
P.O. #:	2017004	400	400.9	401.0	-0.9	-1.0	-1.0
		600	600.1	600.2	-0.1	-0.2	-0.2
Description: Type: N Thermocouple 14 EA. 2-14N1U1 (1/8" X 14") 26 EA. 2-24N1U1 (1/8" X 24") 24 EA. 2-30N1U1 (1/8" X 30") 46 EA. 2-36N1U1 (1/8" X 36")		800	799.9	799.9	0.1	0.1	0.1
		1000	1000.3	1000.4	-0.3	-0.4	-0.4
		1200	1201.3	1201.3	-1.3	-1.3	-1.3
		1400	1400.6	1400.7	-0.6	-0.7	-0.6
		1600	1600.7	1600.9	-0.7	-0.9	-0.8
		1800	1800.8	1801.0	-0.8	-1.0	-0.9
		2000	2001.9	2002.0	-1.9	-2.0	-2.0
		2200	2201.8	2201.9	-1.8	-1.9	-1.8
		2300	2302.1	2302.2	-2.1	-2.2	-2.2
Spool #	MG16627C						
Test Date:	11/14/2016						
Job #	189515						

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/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-12, GEOCORP QW-001-N

NIST SENSOR: 287605

Calibrated: 11/24/2015

Due: 11/24/2016

Type: S

Working Std: A-3798

Calibrated: 9/16/2016

Due: 9/16/2017

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: AH

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 Fries

Mike Fries

APPROVED SIGNATORY

Type: N Thermocouple

GRAPH DATA

VARIATION FROM TRUE TEMPERATURE

