

Calibration Temperature Certificate

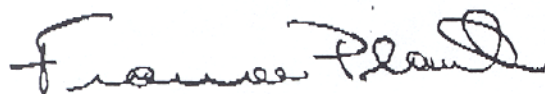
April 21th, 1994

We certify that the observations on the present certificate have been made at the following temperature:

20° C ± 0.7° C

The temperature of the calibration room is controled to stay in that range.

Head Assistant
Metrology Laboratory



France Plante, Science degree, Q.L.S.
Room 00421 (PEPS) Tel.: (418) 656-7082

EXAMPLE #2 (Page 1 of 4) - Optional, if temperature is the same.

Leica

From

~~From~~ Karl Zeiske

Company Leica AG

To

~~From~~ Werner Bausch

Date March 31, 1994

Subject GPCL/GPNL Rods

Page 1 of 1



Atlanta
April 8, 1994

Leica Inc.
111 Deer Lake Road
Deerfield Illinois 60015
Telephone 708-406-0123
Fax 708-406-0336

NOAA want to know the coefficient of expansion of the invar tapes in the 2m and 3m rods they recently purchased. Can you send us a statement of this factor that we can pass along to NOAA?

Since we are moving over the next few days, could you please send your reply to our Norcross office, fax #404-447-0710? If you want to call me I can be reached at the Deerfield office tomorrow; after that I will be on my way to Atlanta.

Thanks and best regards.

The coefficient of expansion of the invar rods is always less than 1ppm/°C. The average coefficient of the last series of invar rods was around 0.6 ppm/°C.

Regards
Karl Zeiske

EXAMPLE #2 (Page 2 of 4) - Optional, if COE is the same.

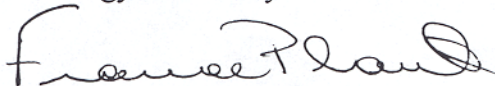
Certificate of Calibration

Levelling staff no 25707

Observations (cm)	Face-Value (cm)
8.206	8.20125
8.814	8.80875
9.218	9.21375
98.520	98.51625
99.127	99.12375
99.734	99.73125
100.342	100.33875
190.454	190.45125
190.859	190.85625
191.263	191.26125
191.871	191.86875
294.134	294.13125
294.539	294.53625
294.943	294.94125
295.349	295.34625

02/03/94

Head assistant
Metrology Laboratory



France Plante, Sc. Degree, I.s.
Metrology Laboratory
PEPS, Laval University
Sainte-Foy, Qc
G1K 7P4

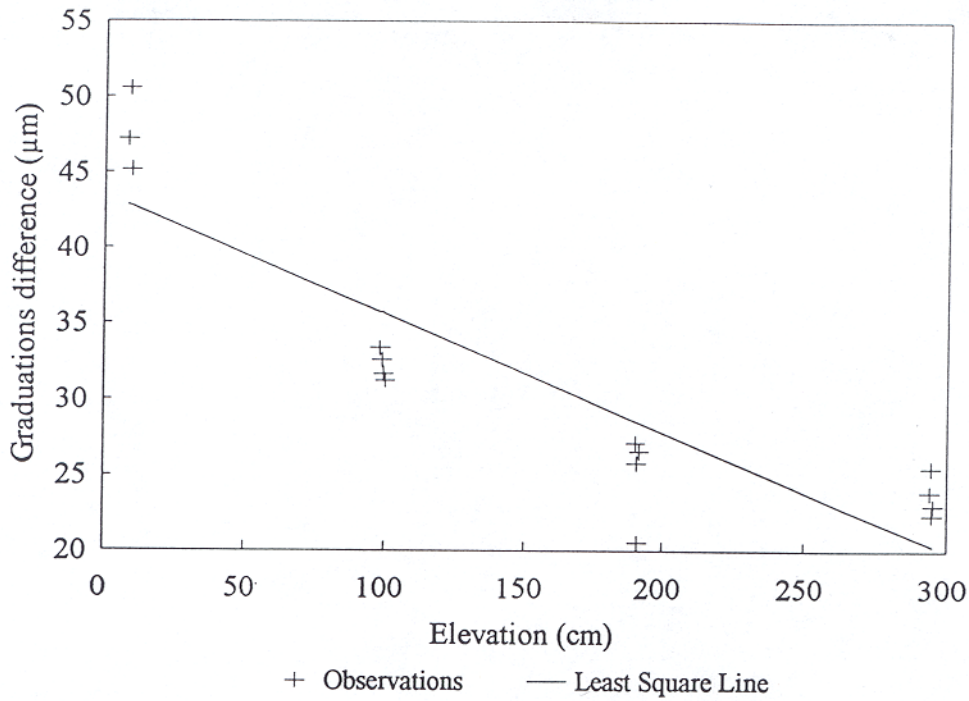
N.B.: Observations have been made on 28/02/1994

Reference files : D:\CAL\25707.MB1 et D:\CAL\25707.SE1

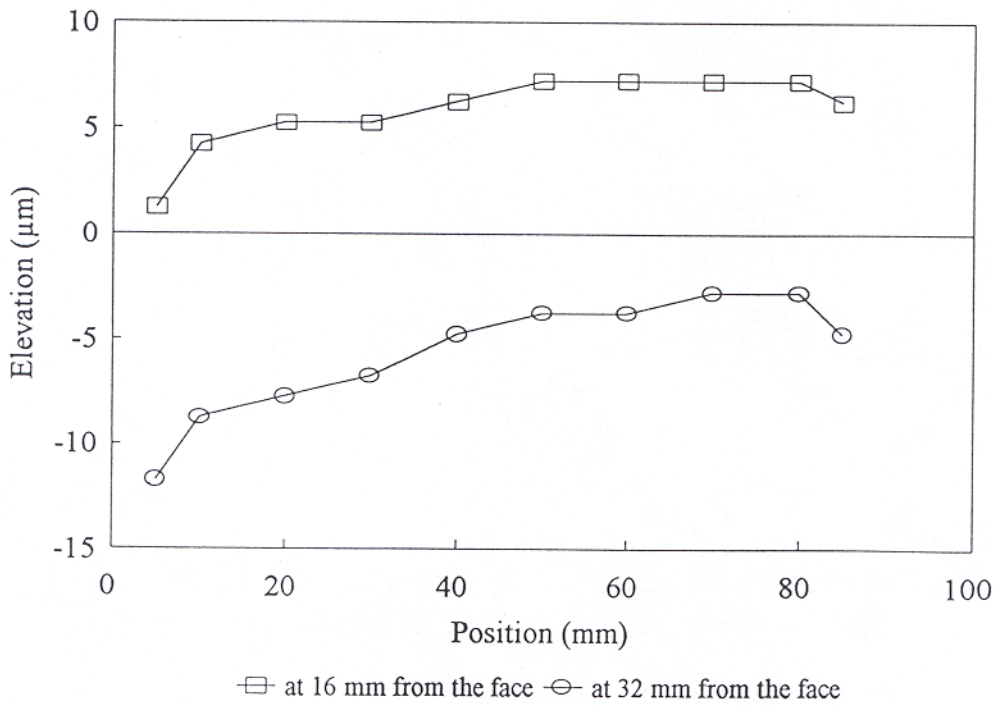
Output file D:\CERTIF\MB25707.WB1

EXAMPLE #2 (Page 3 of 4)

Levelling staff no 25707
Correction: $-0.0044 \text{ cm} + 8 \text{ p.p.m.}$



Iron base profiles
Levelling staff no 25707



EXAMPLE #2 (Page 4 of 4)