



WEATHER: FINE, CLOUDY, BREEZE, WINDY. DOCUMEE: 1028 9 4 20

## BOOKING SHEET FOR BOYA RANGE BARCODE STAFF CALIBRATION

		O MA
1) LEVEL BUBBLE CHECKED? (Circle one)	YES/NO	ADJUSTED? YES (NO)
2) STAFF BUBBLE CHECKED? (Circle one)	YES/NO	ADJUSTED? YES NO

3) COLLIMATION TEST OF DIGITAL LEVEL

See Boya Range plan for location of collimation test spikes 1-4
Use the adjusted instrument collimation constant derived from collimation test done below.

## 4) RANGE OBSERVATION DETAILS

See Boya Range plan for location of Pillar MV 83 and Pins 1-21

Set digital level to record most precise readings with multiple observations, means and standard deviations if possible. Shade instrument.

Book field information in these tables to complete documentation for calibration.

Observe a BS on Pin 1, IS on Pins 2-20 and a FS on Pin 21 for 1 complete set for a 4 m staff. Observe a BS on Pin 1, IS on Pins 2-14 and a FS on Pin 15 for 1 complete set for a 3 m staff.

If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

	WEDNESDAY.		
DATE & TIME	8/6/2022 9.48AM.		
	INSTRUMENT D	ETAILS	
MAKE/MODEL	LEICA LS 15.	11	
SERIAL#	702272.	u u	
	STAFF DETA	ILS	
MAKE/MODEL	LEICA	11 4	
SERIAL#	#26296	#26296.	
MATERIAL	FIBREGLASS / WOOD / INVAR (	FIBREGLASS / WOOD / INVAR/	FIBREGLASS / WOOD / INVAR /
LENGTH OF STAFF (	3 m/4 m/5 m/ (	3 m)/4 m/5 m/	3 m / 4 m/ 5 m /
COEFFICIENT OF EXPANSION OF STAFF (If known)	RETICLE: 1.71118.		
	COLLIMATION	TEST	
COLLIMATION DIFFERENCE	0.2" OLD: 0.5" NEW: 0.8"		
ACCEPT/STORE?	YES).NO	YES / NO	YES / NO
	RANGE OBSERVATION	ON DETAILS	
# OBSERVATIONS FOR MEAN (Min. of 5 observations)	10	10	
NUMBER OF SETS	12 #1-15.	/ #7-#2 <sub>1</sub> .	
START TIME & TEMPERATURE	10:02AM 15.4°C. 15.4°C	10.30AM · 15.6°C. 16.2°C.	
END TIME & TEMPERATURE	10:25 Am. 15.2°C. 15.3°C.	10.55 AM. 16.6°C. 16.5°C.	
	TINE 001	LINE 002.	

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR	V. uNG.
	(Name & Signature)
DATE	8/6/2022.





## **BOOKING SHEET FOR BOYA RANGE BARCODE STAFF CALIBRATION**

1) LEVEL BUBBLE CHECKED? (Circle one)

YES / NO

ADJUSTED? YES/NO

2) STAFF BUBBLE CHECKED? (Circle one)

YES/NO

ADJUSTED? YES/NO

3) COLLIMATION TEST OF DIGITAL LEVEL

See Boya Range plan for location of collimation test spikes 1-4 Use the adjusted instrument collimation constant derived from collimation test done below.

## 4) RANGE OBSERVATION DETAILS

See Boya Range plan for location of Pillar MV 83 and Pins 1-21

Set digital level to record most precise readings with multiple observations, means and standard deviations if possible. Shade instrument.

Book field information in these tables to complete documentation for calibration.

Observe a BS on Pin 1, IS on Pins 2-20 and a FS on Pin 21 for 1 complete set for a 4 m staff. Observe a BS on Pin 1, IS on Pins 2-14 and a FS on Pin 15 for 1 complete set for a 3 m staff.

If instrument can't mean multiple observations, do at least 3 complete sets for redundancy.

DATE & TIME	8/6/2022. 11:00AN	8/6/2022.11:20 AM	n.
	INSTRUMENT D	ETAILS	
MAKE/MODEL	LEICA LS 15.	LEICA LS 15.	
SERIAL#	702272.	702272.	*
自由证明的信息,所谓证明的证明。 1	STAFF DETA	ILS	
MAKE/MODEL	LEICA.	LEICA.	
SERIAL#	# 213.	# 212	
MATERIAL (	FIBREGLASS/WOOD/(INVAR/	FIBREGLASS / WOOD / INVAR /	FIBREGLASS / WOOD / INVAR /
LENGTH OF STAFF	3 m / 4 m / 5 m /	3 m / 4 m / 5 m /	3 m / 4 m/ 5 m /
COEFFICIENT OF EXPANSION OF STAFF (If known)	,		
	COLLIMATION	TEST	
COLLIMATION DIFFERENCE			
ACCEPT/STORE?	YES / NO	YES / NO	YES / NO
	RANGE OBSERVATION	ON DETAILS	
# OBSERVATIONS FOR MEAN (Min. of 5 observations)	5.	5	
NUMBER OF SETS	/ #1-H21.	1 #1-#21.	
START TIME & TEMPERATURE	16,2°C. 15,9°C.	11:20AM. 16.2°C. 15.9°C.	
END TIME & TEMPERATURE	11.18AM.	11:32AM. 16.2°. 16.4°C.	
	16.6°C. 16.0°C.	16.2°. 16.4°C.	

I certify that the above observations were made by me at the Boya barcode staff calibration range.

SURVEYOR	V.UNG.	
	(Name & Signature)	
DATE8	16/2022.	