R/NAT/GEN/F#6

Also WWII

TOPOGRAPHICAL SECTION'S DOCUMENTS
AND SURVEY DATA.

Army Form A2007 (stout)

CENTRAL REGISTRY

Central Registry No. and Date

Attached Files

SUBJECT, AND OFFICE OF ORIGIN

Referred to	Date	Referred to	Date	Referred to	Date

Instruction.

Sheet 1 - Survey of Falkland Camp sent to the H.K. by air mail but not yet acknowledged.

If lost - wait - see if Topo: Section gets home -

If Topo: Section get lost on way home send another copy.

(M/b information from Lt Thomas)

Sheet 1 in Trea Cnd's room.
Survey of Falkland Camp in this file

31 A }
52. A. } Survey of HAA & C.D. Batteries
F. Provision of known bearings for Calibrating compasses.
63A } Known ranges for Rangefinders.
35 A }

Secret. Ref. Topo/B/1

HEADQUARTERS
RECEIVED
30 APR 1943
122 FORCE

To:- Bn. 24/ West Yorkshire Regt.

From:- No. 2 Topo. Section R.E.

Subject:- Known Ranges for Rangefinders.

Herewith details of ranges suitable for the Infantry Rangefinder, as requested.

Coordinates of the Wireless masts, and the Cathedral Spire have not yet been computed. As soon as these become available, range tables will be prepared, and forwarded.

Falkland Camp.
29 Apr. 43

J. L. Thomas Lt. R.E.
O.C. No. 2 Topo. Section.

KNOWN RANGES FOR RANGEFINDERS.

INDEX.

General description of Rangetakers Square
Method of using the Tables of Ranges.....SHEET 1.

Figures 1 & 2. Diagrams of the Square and
relative positions of the known points.....SHEET 2.

Table 1. Ranges to Point D, and Camber.....SHEET 3.

Table 2. Ranges to Cortley Hill and
Square Chimney.....SHEET 4.

Distribution: Force H.Q., 11 W. Yorks., File.

KNOWN RANGES FOR RANGEFINDERS.

1. In order to obtain a series of known ranges for the Infantry Rangefinder, the topographical base line, and several base extension trigonometrical points have been used, thus giving a number of accurate ranges. The computation was made on a system of false co-ordinates, and since these might create confusion, they are not given here. The true grid co-ordinates of the pegs mentioned in para. 2 below, and of various other points in the scheme will be forwarded as soon as they are available.

2. Wooden pegs have been sunk into the ground 44 yards south of the west end of the Base, and have been numbered as shown in Figure 1. The pegs form a 12 yard square, and individual pegs are 2 yards apart.

3. Figure 2. shows the relative positions of the Base, the Square, and all points to which ranges have been computed.

4. The attached Tables of Ranges have been constructed, and these must be used in the following manner:
An infantry rangetaker is told to set up his instrument over any given peg in the Square, and told to take the range to any of the known points. The offr. i/c rangetakers must then look up the appropriate table showing the ranges to the known point, and the correct range is given in the square representing the peg over which the rangefinder is set up. All ranges given in the tables are correct to 0.1 yards.

EXAMPLE.

A rangefinder is set up over peg 2,5 and the rangetaker is told to take the range to Point D. Look up Table 1 showing ranges to Point D, and the correct range (1284.1 yards) is given in the square 2,5.

Falkland Camp.
29 Apr. 43.

H Balder. Lieut.
11th Bn. The West Yorkshire Regt.

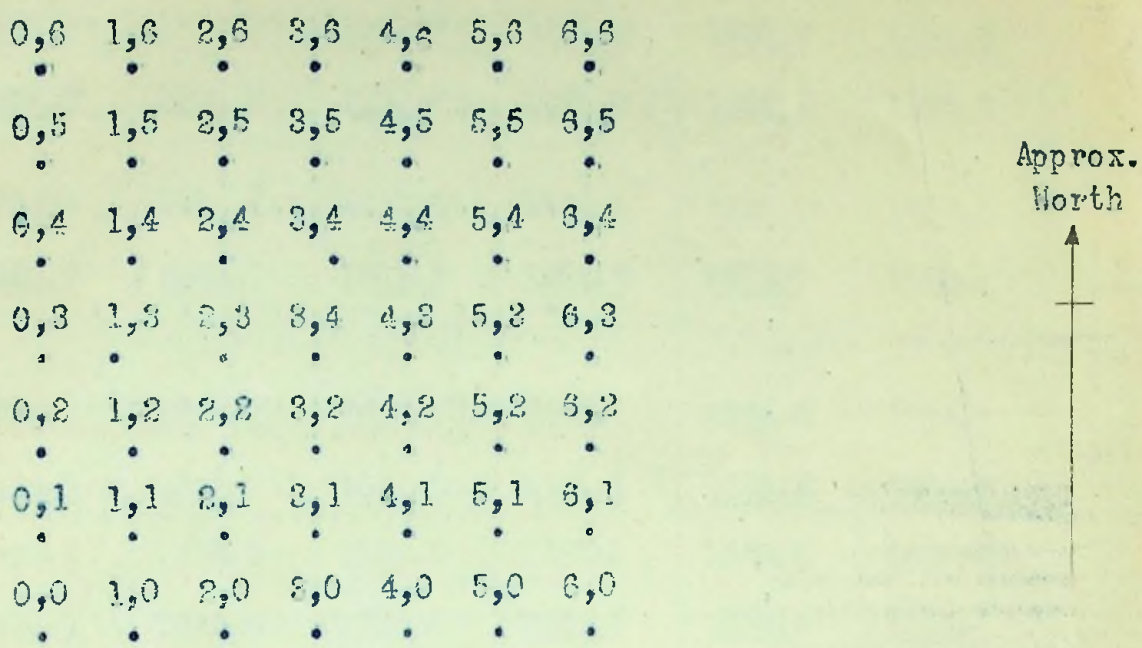


FIGURE 1.

Diagram showing the numbering of pegs in the Rangotaker's Square.

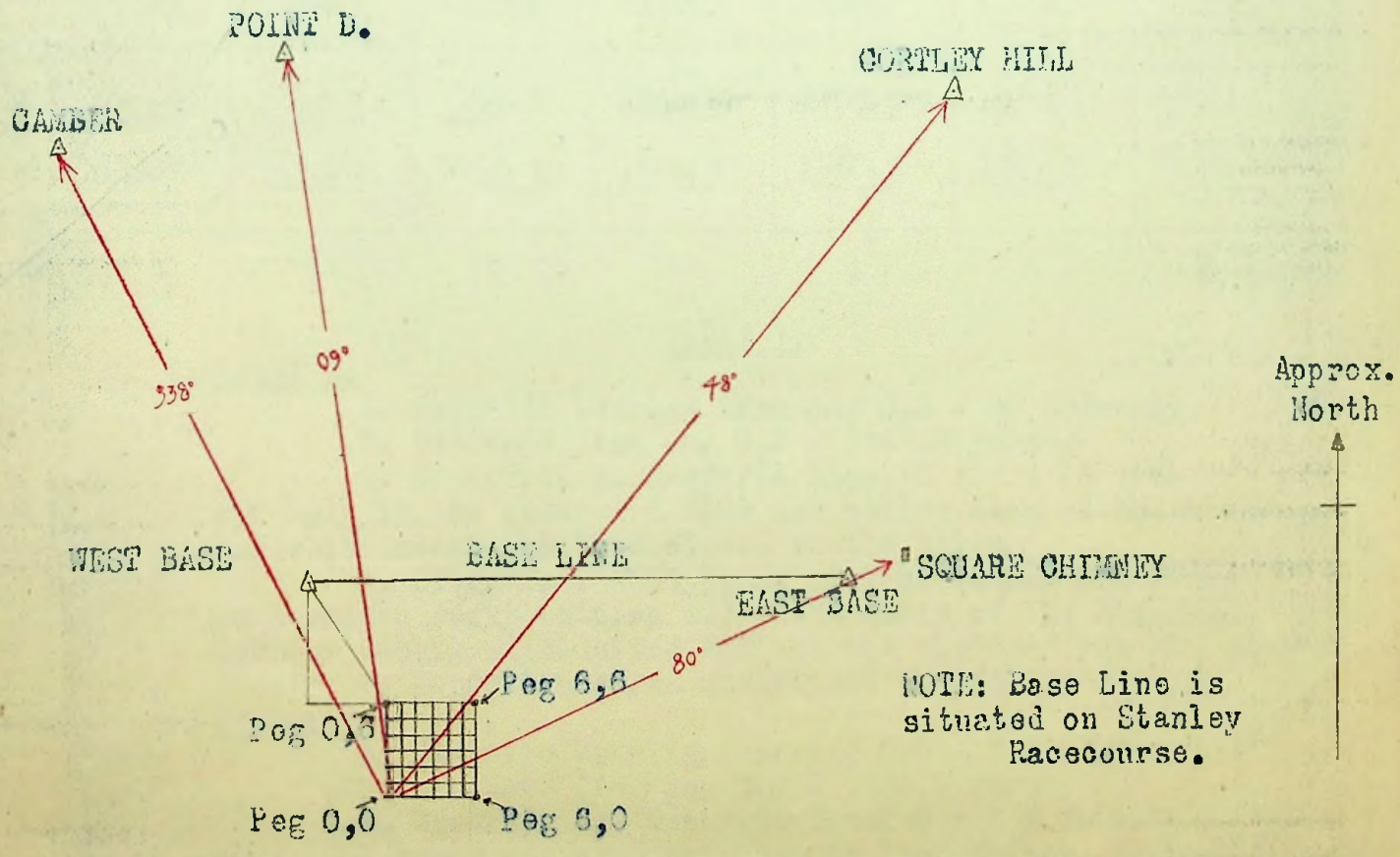


FIGURE 2.

Diagram showing relative positions of Square, Base Line, Camber, Point D, Cortley Hill, and Square Chimney.

Magnetic bearings from peg 0,0 shown in RED.

(These are taken with an ordinary primatic compass, and must be regarded as approximate only.)

1333.2 1326.1	1332.7 1327.2	1332.2 1328.5	1331.7 1329.7	1331.2 1330.9	1330.7 1332.1	1330.2 1333.3
1335.1 1327.7	1334.6 1329.9	1334.1 1330.1	1333.6 1331.3	1333.1 1332.5	1332.6 1333.7	1332.1 1334.9
1337.1 1329.2	1336.6 1330.5	1336.1 1331.7	1335.6 1332.9	1335.1 1334.1	1334.6 1335.3	1334.1 1336.5
1339.0 1330.9	1338.5 1332.1	1338.0 1333.3	1337.5 1334.5	1337.0 1335.7	1336.5 1336.9	1336.0 1338.1
1340.9 1332.5	1340.4 1333.7	1339.9 1334.9	1339.4 1336.1	1338.9 1337.3	1338.4 1338.5	1337.9 1339.7
1342.9 1334.1	1342.4 1335.3	1341.9 1336.5	1341.4 1337.7	1340.9 1338.9	1340.4 1340.1	1339.9 1341.3
1344.8 1335.7	1344.3 1336.9	1343.8 1338.1	1343.3 1339.3	1342.8 1340.5	1342.3 1341.7	1341.8 1342.9

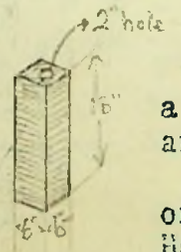
0 1 2 3 4 5 6

NORTH (approx)

TABLE 1.

A. Point D.

1. Magnetic bearing from peg 0,0 - 09 degrees.
2. Distance from peg 0,0 - 1344.8 yards.
3. Description. Concrete block 6" x 6" x 18" with a 2 hole in the centre. A blue and yellow flag with a black and white staff has been placed in the hole.



4. Situation. 2500 yards west of Camber Oil Tanks on a raised rocky outcrop 400 yards north of the Stanley Harbour Coast. Silhouetted against the skyline from the Square.
5. Ranges in yards underlined in red ink above.

B. Camber.

1. Magnetic bearing from peg 0,0 - 330 degrees.
2. Distance from peg 0,0 - 1335.7 yards.
3. Description. Concrete block 6" x 6" x 18" with a used .303 cartridge case embedded in the surface. To take ranges from this point, a flag can be set up in direct alignment with the cartridge case and peg 0,0. Care MUST be taken not to disturb the concrete block as this is a trig. point used in topographical survey.
4. Situation. 2800 yards west of Camber Oil Tanks, in a brown patch of "Camp" 200 yards north of the Stanley Harbour Coast.
5. Ranges in yards underlined in blue ink above.

	2300.2 984.3	2298.6 982.3	2297.0 980.3	2295.3 978.3	2293.7 976.3	2292.1 974.3	2290.5 972.4
5	2301.4 984.4	2299.8 982.4	2298.2 980.4	2296.5 978.4	2294.9 976.4	2293.3 974.4	2291.7 972.5
4	2302.6 984.5	2301.0 982.5	2299.4 980.5	2297.7 978.5	2296.1 976.5	2294.5 974.5	2292.9 972.6
3	2303.7 984.6	2302.1 982.6	2300.5 980.6	2298.8 978.6	2297.2 976.6	2295.6 974.6	2294.0 972.7
2	2304.9 984.8	2303.3 982.8	2301.7 980.8	2300.0 978.8	2298.4 976.8	2296.8 974.8	2295.2 972.8
1	2306.1 984.9	2304.5 982.9	2302.9 980.9	2301.2 978.9	2299.6 976.9	2298.0 974.9	2296.4 972.9
0	2307.3 985.0	2305.7 983.0	2304.1 981.0	2302.5 979.0	2300.8 977.0	2299.2 975.0	2297.6 973.0
	0	1	2	3	4	5	6

NORTH (Approx.)

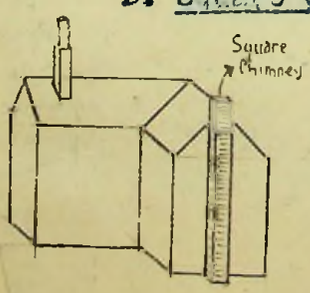
TABLE 2.

A. Cortley Hill.

1. Magnetic bearing from peg 0,0 - 46 degrees.
2. Distance from peg 0,0 - 2307.3 yards.
3. Description. Concrete block 6"x6"x 18" with a 2" hole in the centre. A blue and yellow flag with a black and white staff has been placed in the hole. Silhouetted against the skyline as viewed from the Square.
4. Situation. 1000 yards west of Camber Oil Tanks on a raised rocky outcrop 1000 yards north of the Stanley Harbour Coast.
5. Ranges in yards underlined in green ink above.

B. Square Chimney.

1. Magnetic bearing from peg 0,0 - 80 degrees.
2. Distance from peg 0,0 - 985.0 yards.
3. Description. Square chimney on gable end of red-roofed house. Measurements taken to the line bisecting the edges of the chimney.
4. Situation. East end of Stanley Racecourse, 21 yards east of East Base.
5. Ranges in yards underlined in yellow ink above



SHEET 1. SECRET.

63A

KNOWN RANGES FOR RANGEFINDERS.

1. Further known ranges for the use of infantry rangefinders have now been computed, and Tables 3, 4, and 5, are attached herewith.

2. If further tables are required giving ranges to points in Port Stanley, co-ordinates accurate to one yard may be measured off, on the Town Plan (Scale 1/2,500) when this becomes available. Co-ordinates of the corner pegs of the Calibration Square are given on Sheet 2. Ranges from the corner pegs may therefore be computed in the normal manner, and the values from the interior pegs of the square can be supplied by interpolation.

Falkland Camp.
25 Sep. 1943.

H Coleles. Lt.
11th Bn. The West Yorkshire Regt.

HEADQUARTERS
RECEIPT No. 24/1
30 SEP 1943
122 FORCE

INDEX.

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List of Co-ordinates.....Sheet 2.

Table 3. Ranges to Cathedral Spire and Town Hall Spire.....Sheet 3.

Table 4. Ranges to Battle Memorial and North W/T Mast.....Sheet 4.

Table 5. Ranges to South W/T Mast and Govt. House Flagstaff.....Sheet 5.

Distribution: Force H.Q., 11 W. Yorks., File.

SHEET 2.

SECRET.
G.S.G.S. Form 54

LIST OF CO-ORDINATES.

Station.	Co-ordinates. ~~feet/metres.~~ yards		Height. feet/metres.	Sketch of Beacon.
	E (easting).	N (northing).		
North W/T Mast.	930495.8	3735331.1		
South W/T Mast.	930502.3	3735247.9		
Camber.	932117.7	3735567.5		
Point "D".	933256.4	3735764.4		
Square Chimney.	933367.0	3734505.7		
Battle Memorial.	934106.3	3734679.8		
Govt. No. Flagstaff.	934375.9	3734514.6		
Cortley Hill.	934778.9	3735786.9		
Town Hall Spire.	934980.3	3734576.9		
Cathedral Spire.	935378.6	3734480.2		
Co-ordinates of the corner pegs of the Range finder Calibration Square are as follows:-				
Peg 0,0	932882.6	3734472.6		
Peg 0,6	932882.9	3734484.6		
Peg 6,0	932894.6	3734472.5		
Peg 6,6	932894.3	3734484.3		

Entered by H Calder Lt.
11th Bn. The West Yorks Regt.

Checked by Sallorge Spr.
Royal Engineers.

2495.9	2493.9	2491.9	2489.9	2487.9	2485.9	2483.9
2099.9	2097.9	2095.9	2093.9	2091.9	2089.9	2087.9
2495.9	2493.9	2491.9	2489.9	2487.9	2485.9	2483.9
2100.1	2098.1	2096.1	2094.1	2092.0	2090.0	2088.0
2496.0	2494.0	2492.0	2490.0	2488.0	2486.0	2484.0
2100.2	2098.2	2096.2	2094.2	2092.2	2090.2	2088.2
2496.0	2494.0	2492.0	2490.0	2488.0	2486.0	2484.0
2100.3	2098.3	2096.3	2094.3	2092.3	2090.3	2088.3
2496.1	2494.1	2492.1	2490.1	2488.1	2486.1	2484.1
2100.5	2098.5	2096.5	2094.5	2092.5	2090.5	2088.5
2496.1	2494.1	2492.1	2490.1	2488.1	2486.1	2484.1
2100.6	2098.6	2096.6	2094.6	2092.6	2090.6	2088.6
2496.2	2494.2	2492.2	2490.2	2488.2	2486.2	2484.2
2100.8	2098.8	2096.8	2094.8	2092.8	2090.8	2088.8
0	1	2	3	4	5	6

NORTH (APPROX)

TABLE 3.

A. Cathedral Spire.
1. Magnetic bearing from peg 0,0 - 82 degrees.
2. Distance from peg 0,0 - 2496.2 yards.
3. Description. Central vane on spire.
4. Situation. Arch Green, Port Stanley.
5. Ranges in yards underlined in red ink above.

B. Town Hall Spire.
1. Magnetic bearing from peg 0,0 = 80 degrees.
2. Distance from peg 0,0 - 2100.8 yards.
3. Description. Vane on spire at east end of Town Hall.
4. Situation. Ross Rd., Port Stanley.
5. Ranges in yards underlined in blue ink above.

6	1238.9	1236.9	1235.0	1233.0	1231.0	1229.1	1227.1
	2533.2	2535.1	2537.0	2538.9	2540.8	2542.7	2544.6
5	1239.3	1237.3	1235.4	1233.4	1231.4	1229.5	1227.5
	2533.8	2535.7	2537.6	2539.5	2541.4	2543.3	2545.2
4	1239.6	1237.6	1235.7	1233.7	1231.7	1229.8	1227.8
	2534.4	2536.3	2538.2	2540.1	2542.0	2543.9	2545.8
3	1240.0	1238.0	1236.1	1234.1	1232.1	1230.2	1228.2
	2535.1	2537.0	2538.9	2540.8	2542.7	2544.6	2546.5
2	1240.4	1238.4	1236.5	1234.5	1232.5	1230.6	1228.6
	2535.7	2537.6	2539.5	2541.4	2543.3	2545.2	2547.1
1	1240.7	1238.7	1236.8	1234.8	1232.8	1230.9	1228.9
	2536.3	2538.2	2540.1	2542.0	2543.9	2545.8	2547.7
0	1241.1	1239.1	1237.2	1235.2	1233.2	1231.3	1229.3
	2536.9	2538.8	2540.7	2542.6	2544.5	2546.4	2548.3
	0	1	2	3	4	5	6

NORTH (APPROX.)

TABLE 4.

A. Battle Memorial.

1. Magnetic bearing from peg 0,0 - 73 degrees.
2. Distance from peg 0,0 - 1241.1 yards.
3. Description. Mainmast of model ship on top of Falkland Islands Battle Memorial.
4. Situation. Little Italy, Ross Rd.West, Port Stanley.
5. Ranges in yards underlined in brown above.

B. North W/T Mast.

1. Magnetic bearing from peg 0,0 - 288 degrees.
2. Distance from peg 0,0 - 2536.9 yards.
3. Situation. West end of Stanley Harbour.
4. Description. Most northerly of two tall (300 ft.) wireless masts.
5. Ranges in yards underlined in black above.

6	2499.9	2501.8	2503.8	2505.7	2507.6	2509.5	2511.5
	1493.3	1491.3	1489.3	1487.3	1485.3	1483.3	1481.3
5	2500.5	2502.4	2504.4	2506.3	2508.2	2510.2	2512.1
	1493.4	1491.4	1489.4	1487.4	1485.4	1483.4	1481.4
4	2501.1	2503.0	2504.9	2506.9	2508.8	2510.7	2512.6
	1493.5	1491.5	1489.5	1487.5	1485.5	1483.5	1481.5
3	2501.6	2503.5	2505.5	2507.4	2509.3	2511.3	2513.2
	1493.6	1491.6	1489.6	1487.6	1485.6	1483.6	1481.6
2	2502.2	2504.1	2506.1	2508.0	2509.9	2511.9	2513.8
	1493.7	1491.7	1489.7	1487.7	1485.7	1483.7	1481.7
1	2502.8	2504.7	2506.6	2508.6	2510.5	2512.4	2514.3
	1493.8	1491.8	1489.8	1487.8	1485.8	1483.8	1481.8
0	2503.4	2505.3	2507.2	2509.2	2511.1	2513.0	2514.9
	1493.9	1491.9	1489.9	1487.9	1485.9	1483.9	1481.9
	0	1	2	3	4	5	6

NORTH (APPROX)

TABLE 5.

A. South W/T Mast.

1. Magnetic bearing from peg 0,0 - 281 degrees.
2. Distance from peg 0,0 - 2503.4 yards.
3. Description. Most southerly of two tall (300 ft.) wireless masts.
4. Situation. West end of Stanley Harbour.
5. Ranges in yards underlined in green above.

B. Govt. House Flag Staff.

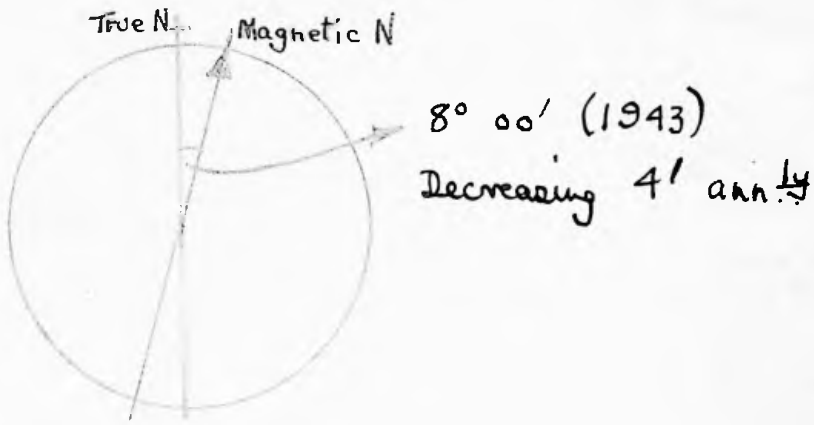
1. Magnetic bearing from peg 0,0 - 81 degrees.
2. Distance from peg 6,0 - 1493.9 yards.
3. Description. White flagstaff.
4. Situation. On the north side of the fence bounding the drive from Govt. House to the road.
5. Ranges in yards underlined in red above.

Copy. Secret.

True Bearings of Known Points from Known Points For The Purpose Of Checking Prismatic Compasses.

1. The TRUE bearings were obtained by observations of the sun. They should be correct to the nearest minute, but the results must at this stage be regarded as provisional, since the final checks are not yet available. → They have ~~has~~ been checked – ~~JJ~~

2. The Magnetic Variation in this area as given by Capt. Hutchinson R.N. is:- 08 degrees 00 minutes East (1943). The annual variation of 4 minutes (decreasing) has been allowed. This result must be regarded as approximate.



3. Description of the Known Points and Bearings.

A. EAST BASE.

1. Description. Concrete block 6" x 6" x 18" with a used .303 cartridge case embedded in the surface.

2. Situation. East end of Stanley Racecourse, 2 yards north of the northern Racecourse fence.

3. All bearings are taken from this point.

B. CORTLEY HILL.

1. Description. Concrete block 6" x 6" x 18" with a 2" hole in the centre. A blue and yellow flag with a black and white staff has been placed in the hole. Silhouetted against the skyline as viewed from the East Base.

2. Situation. 1000 yards west of Camber Oil Tanks on a raised rocky outcrop 1000 yards north of the Stanley Harbour Coast.

3. True Bearing. (from East Base) 36 degrees 40 min.

C POINT D.

1. Description. Concrete block 6" x 6" x 18" with a 2" hole in the centre. A blue and yellow flag with a black and white staff has been placed in the hole. Silhouetted against the skyline as viewed from the East Base.

2. Situation. 2500 yards west of Camber Oil Tanks, on a raised rocky outcrop 400 yards north of the Stanley Harbour.

3. True Bearing (from East Base) 335 degrees 36 min.

D. West Base.

1. Description. Concrete block 6" x 6" x 18" with a used .303 cartridge case embedded in the surface.

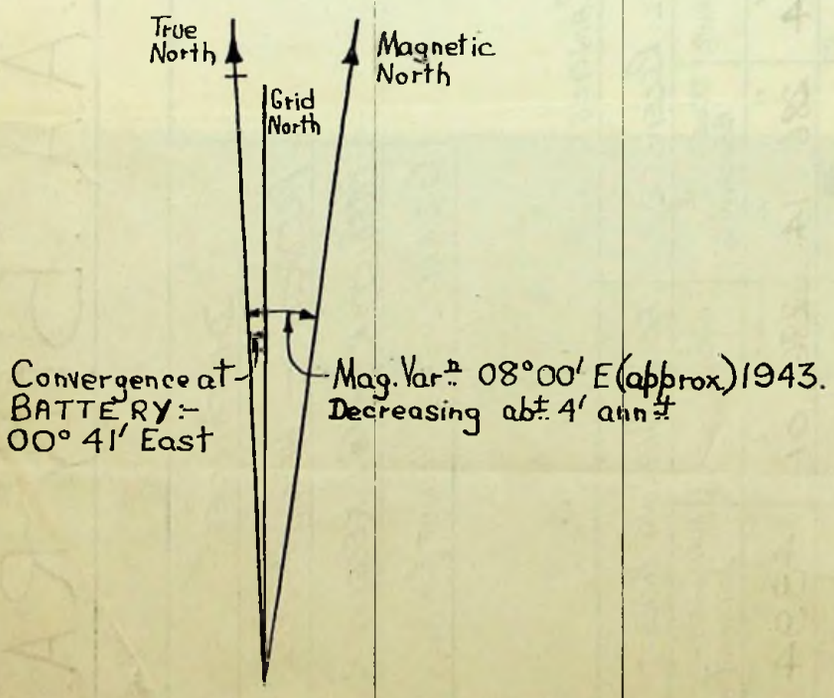
2. Situation. West End of the Stanley Racecourse, 990 yards west of the East Base. To take bearings to this point, a flag must be set up in alignment with the cartridge case, and East Base. Care MUST be taken not to disturb the concrete block as this is a trig. point used in topographical survey.

3. True Bearing. (from East Base) 272 degrees 04 min.

G.S.G.S. Form 54

LIST OF CO-ORDINATES.

Station.	Co-ordinates. ~~feet~~ YARDS. E (easting).	N (northing).	Height. feet/[redacted]	Sketch of Beacon.
LISTED – CO-ORDINATES of RANGE POINTS.				
NORTH WIRELESS MAST.	930 495·3	3.735 331·1	344·7 (Top of MAST.	
SOUTH WIRELESS MAST	930 5[illegible]	3.735 247·9	336·4 (Top of MAST)	
MENGEARY Lt HSE.	945 031·2	3.740 199·8	50·8 (G.L.) 94·6 (PLATFORM)	
GATE PEMBROKE Lt HSE.	945 828·6	3.735 855·6	51·4 (G.L) 93·4 (Top of White Gallery).	
LISTED COORDS of INSTRUMENTS.				
RANGE FINDER (H.P)	935 207·9	3.733 877·7.	168·5 (G.L.)	173·1 ft (Top of) axis
PREDICTOR	935 198·0	3.733 879·6	167·5 (G.L.)	172·9 ft (Top of) axis.
G.L. RECEIVER.	935 350·7.	3.733 897·0.	—	
Approx Centre WOLF ROCK.	943 459[illegible]	930·116[illegible]	—	—



ENTERED By Spr. Ja. Morgan RE.
CHECKED By. Spr. G J Stuart RE.

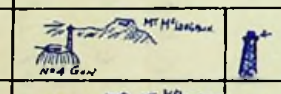
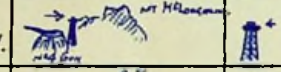
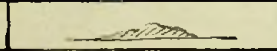
S M.E. 30000 3720 (6) 11-41

SURVEY DATA :- 359 H.A.A. Btty R.A.

COORDINATES	EASTING YARDS	NORTHING	HEIGHT (IN FEET)	
BEARING PICKET at MEAN GUN POSITION	935206·6	3.733897·7	165·9	G.L.
PREDICTOR (CENTRE)	935198·0	3.733879·6	172·9	AXIS
HEIGHTFINDER (CENTRE)	935207·9	3.733877·7	173·1	AXIS
G.L. RECEIVER (CENTRE)	935350·7	3.733897·0		

DISTANCES	YARDS
PREDICTOR — HEIGHTFINDER	10·1
PREDICTOR - G.L. RECEIVER	153·7
G.L. RECEIVER - HEIGHTFINDER	144·1.

BEARINGS AND RANGES

AIMING OR RANGE POINT	SKETCH	FROM PREDICTOR GRID BEARING	FROM PREDICTOR TRUE BEARING	FROM G.L. RECEIVER GRID BEARING	FROM G.L. RECEIVER TRUE BEARING	FROM BEARING PICKET GRID BEARING	FROM BEARING PICKET HORIZONTAL DISTANCE (YARDS)	FROM HEIGHTFINDER SLANT RANGE (YARDS)
		° ′	° ′	° ′	° ′	° ′		
WIRELESS MAST SOUTH		286 15	286 55	285 34	286 14	286 01	4894	4901
WIRELESS MAST NORTH.		287 09	287 50	286 27	287 08	286 55	4925	4932
MENGEARY LT HSE (Centre)		57 16	57 57	56 56	57 36	57 19	11.672.	11.682
CAPE PEMBROKE LT HSE (Centre)				79 25	80 05			10.803
RT HAND EDGE WATER TOWER		68 07	68 47	53 00	53 41	70 50		
POINT ON WOLF ROCK		113 44	114 24	114 13	114 53			9342

WOLF ROCK NOT VISIBLE FROM SITE.

DISPLACEMENTS YARDS.				
	MEAN GUN POSITION	144·1 W/W	0·7 N/S	FROM G.L. RECEIVER
	MEAN GUN POSITION	8·6 E/W	18·1 N/S	FROM PREDICTOR
	G.L. RECEIVER	152·7 E/W	17·4 N/S	FROM PREDICTOR

SURVEYED BY	Spr. J.A. Morgan. RE.
ENTERED BY	Spr. J.A. Morgan. RE.
CHECKED BY.	Spr. A.J. Stuart RE

To:- G.S.O. 3

From:- No.2 Topographical Section R.E.

HEADQUARTERS
RECEIPT No. 2/1097/3
7 AUG 1943
122 FORCE

31A

Survey Data.

Herewith survey data relating to 359 H.A.A. Battery R.A. A copy of the enclosed sheet, has already been handed to the Battery Commander.

J. S. Thomas.
Lt. R.E.
O.C. No. 2 Topo Section.

Falkland Camp
7 Aug. 43

To:- Force H.Q.
From:- No.2 Topo Section R.E.
Subject:- Survey Data.

52A

Herewith Survey Data for the following positions:-
Mt.Low Battery; Ordnance Point Battery; Charles Point Battery; Canopus Battery (all in duplicate.); and Mt. Low G.L. Receiver.

In the case of Mt.Low Battery, the guns are not yet in position, but pegs have been left Grid North, Grid South, and Grid West of the R.E. Survey Mark, which is a 1½" iron pipe set in a concbete block. When the guns are in position, their coordinates can be easily obtained.

A peg has been left at the proposed position of the Mt. Low G.L. Receiver. This peg was sited by Lt. Brown R.E.M.E., and the survey data refers to it. The duplicate copy of the G.L. survey data, has been forwarded to Lt. Brown.

Falkland Camp.
22 Sept. 1943

T. L. Flower. Lt. R.E.
O.C. No.2 Topo. Section.

HEADQUARTERS
RECEIPT No. 2/159/15
25 SEP 1943
122 FORCE

File

Mt. Low G.L. Receiver.(Proposed Site.)

Survey Mark.

Wooden peg 4" x 4" x 1' 6" driven into the ground with about 6" left projecting.

Situation.

Situated at a point 400 yards west of Mt. Low Lookout Post, and about 50 yards S.E. of the nearest rock outcrop.

SURVEY DATA :- MT. LOW BATTERY

COORDINATES	EASTINGS (YARDS)	NORTHINGS (YARDS)	HEIGHT [FEET]	
RANGE FINDER	939150·8	3741612·1	488·9	TRUNNION ±MS.

DISTANCE

GRID NORTH PEG IS 49'9" from Mt. Low Bty △
GRID WEST PEG IS 84'6" .. ..
GRID SOUTH PEG IS 48'4" .. ..

AIMING OR RANGE POINT	SKETCH.	FROM RANGE FINDER				
		GRID BEARING		TRUE BEARING		SLANT RANGE IN YARDS.
		°	'			
CAPE PEMBROKE Lt Hse		130	46	131	23	8816
MENGEARY Lt Hse		103	30	104	08	6048

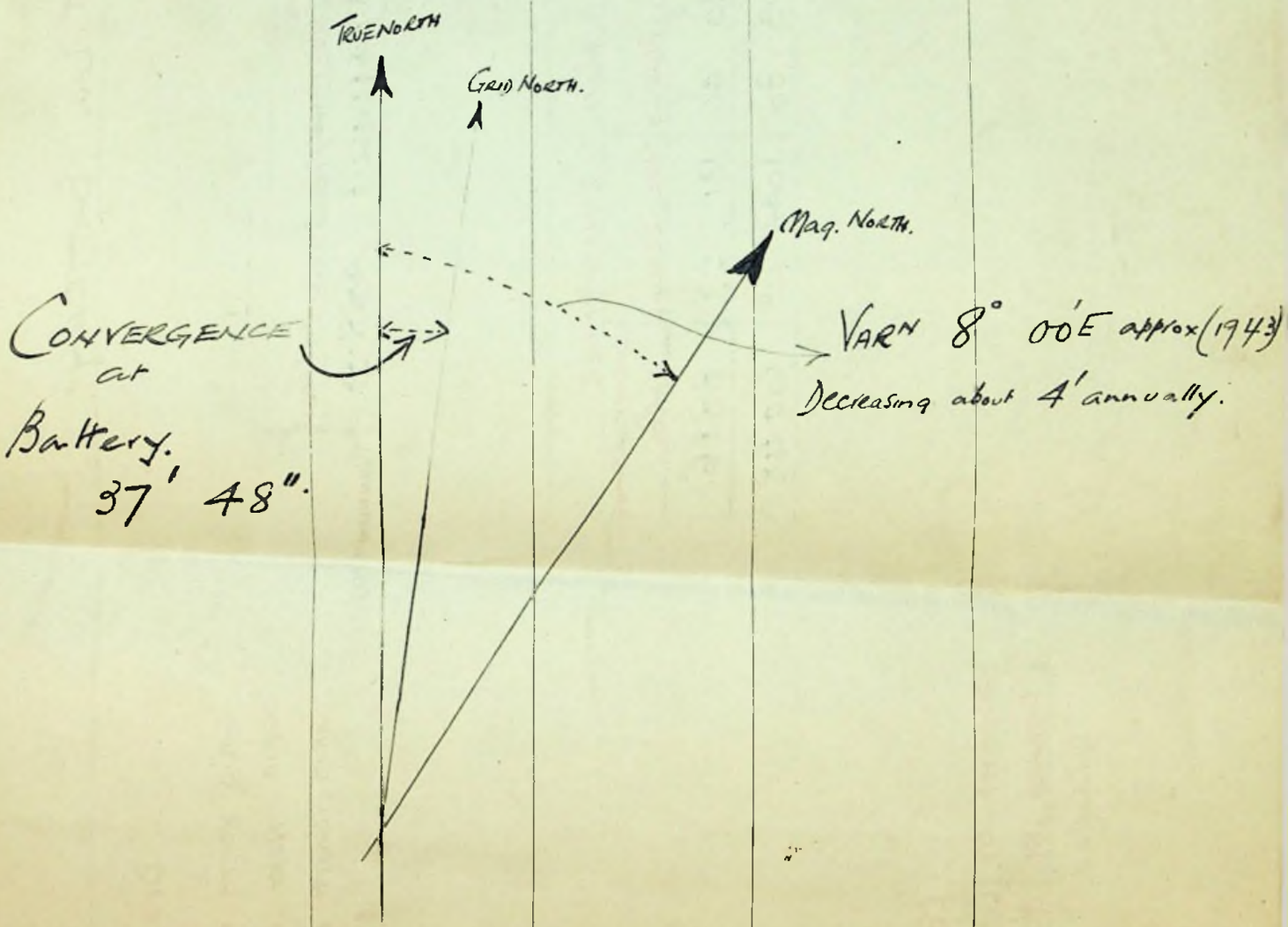
SURVEYED BY	Da Hamel, Cpl. RE Yamorgan. Spr RE.
ENTERED BY.	Yamorgan. Spr. RE.

Checked. E.G. Stride Spr R.E

G.S.G.S. Form 54

LIST OF Bibolley CO-ORDINATES.

Station.	Co-ordinates. feet/metres. E (easting).	N (northing).	Height. feet/metres.	Sketch ~~of Beacon~~.
Cape Pembroke L-Hse.	945828·6	3735855·6		
Mengeany L-Hse	945031·2	3740199·8		
MT Low Battery. △	939134·2	3741608·8		



S M.E. 3720 (6)
30000 11-41

SURVEY DATA :- ORDNANCE POINT BATTERY.

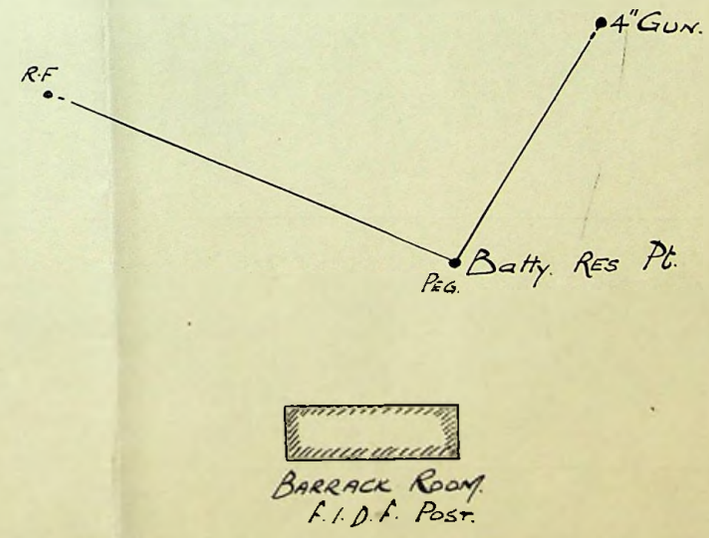
COORDINATES	YARDS. EASTING	NORTHING	HEIGHT IN FEET.	
RANGE FINDER	939 004·6	3736646·6	88·3	TRUNNION AXIS
4" GUN	939 030·2	3736655·5	85·1	—"—

DISPLACEMENT IN YARDS

RANGE FINDER IS	25·6 W.	8·9 N.	FROM 4" GUN.

BEARINGS & RANGES from RANGE FINDER.

RANGE OR AIMING POINT	GRID BEARING °	′	TRUE BEARING °	′	SLANT RANGE IN YARDS
MENGEARY LT HSE	59	29	60	07	6996
C. PEMBROKE LT HSE.	96	37	97	15	6870
YORK ROCK BEACON.	83	11	83	49	1950



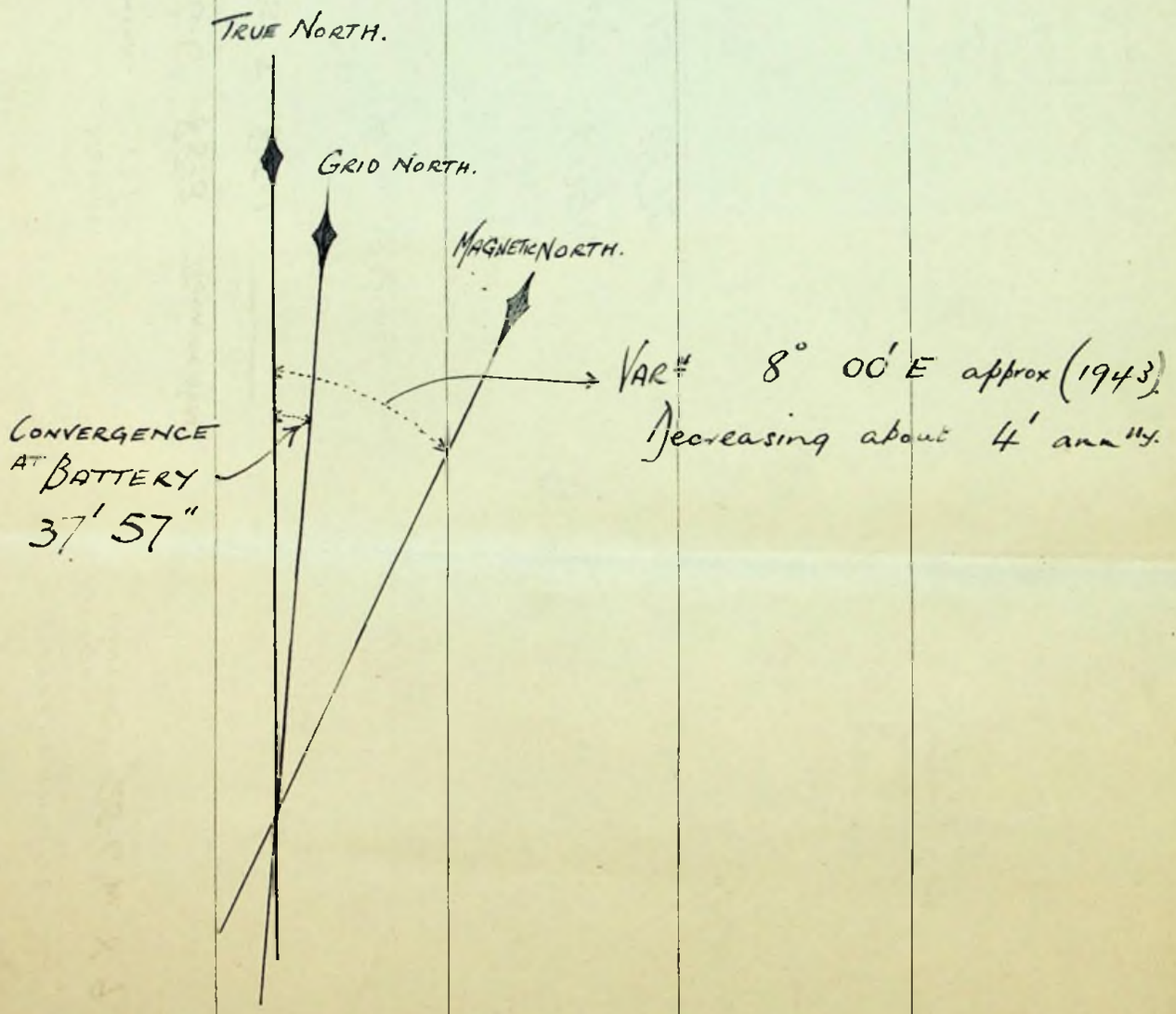
SURVEYED	BY	J. Morgan. Spr. RE
ENTERED	BY	J. Morgan. Spr. RE.
CHECKED	BY.	G. Stewart Spr. R.E.

G.S.G.S. Form 54

LIST OF CO-ORDINATES.

Bid. Ord.

Station.	Co-ordinates. feet/metres. E (easting).	N (northing).	Height. feet/metres.	Sketch of Beacon.
Battery Rec P.	939 029.0	3 736 644.9		
Cape Pembroke Lthse.	945 828.6	3 735 855.6		
Mongeang Lr Hse	945 031.2	3740 199.8		
York Rock Beacon.	940 941.1	3736 874.9		



Sgt. Lathorgan Sr.

S M.E. 3720 (6)
30000 11-41

SURVEY DATA:- CHARLES POINT BATTERY (C.D)

COORDINATES	EASTING. YARDS.	NORTHING	HEIGHT FEET	
No 1 GUN	941777·4	3.738999·6	67·1	TRUNNION AXIS
No 2 GUN	941798·5	3.739018·0	70·2	—"—
SEARCHLIGHT	941824·8	3.738631·1		
RANGE FINDER	941776·7	3.739020·3	75·5	—"—

DISTANCES	YARDS.	
RANGE FINDER to No 1 GUN	20·7	
RANGE FINDER --- No 2 GUN	21·9	
RANGE FINDER --- MENGEARY Lt Hse	3462	Stand
RANGE FINDER --- C. PEMBROKE Lt Hse	5141	Stand.

BEARINGS.

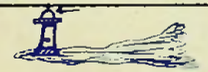
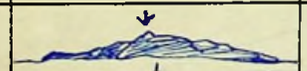
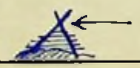
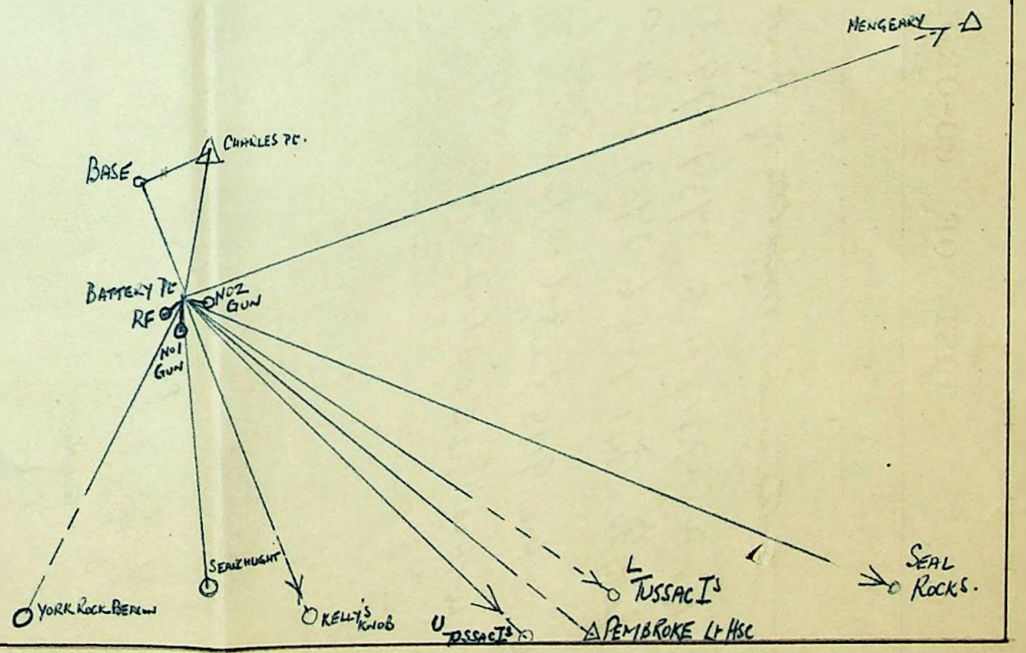
AIMING OR RANGE PCS.	SKETCH.	FROM RANGE FINDER. GRID BEARING		TRUE BEARING	
MENGEARY Lt Hse		70°	05'	70°	41'
L. TUSSAC Is.		123°	10'	123	46
C. PEMBROKE Lt Hse		127	59	128	35
U. TUSSAC Is.		133	05	133	41
KELLY'S KNOB.		156	52	157	28
YORK ROCK BEACON		201	18	201	54
SEAL ROCK		111	06	111	42

DIAGRAM.



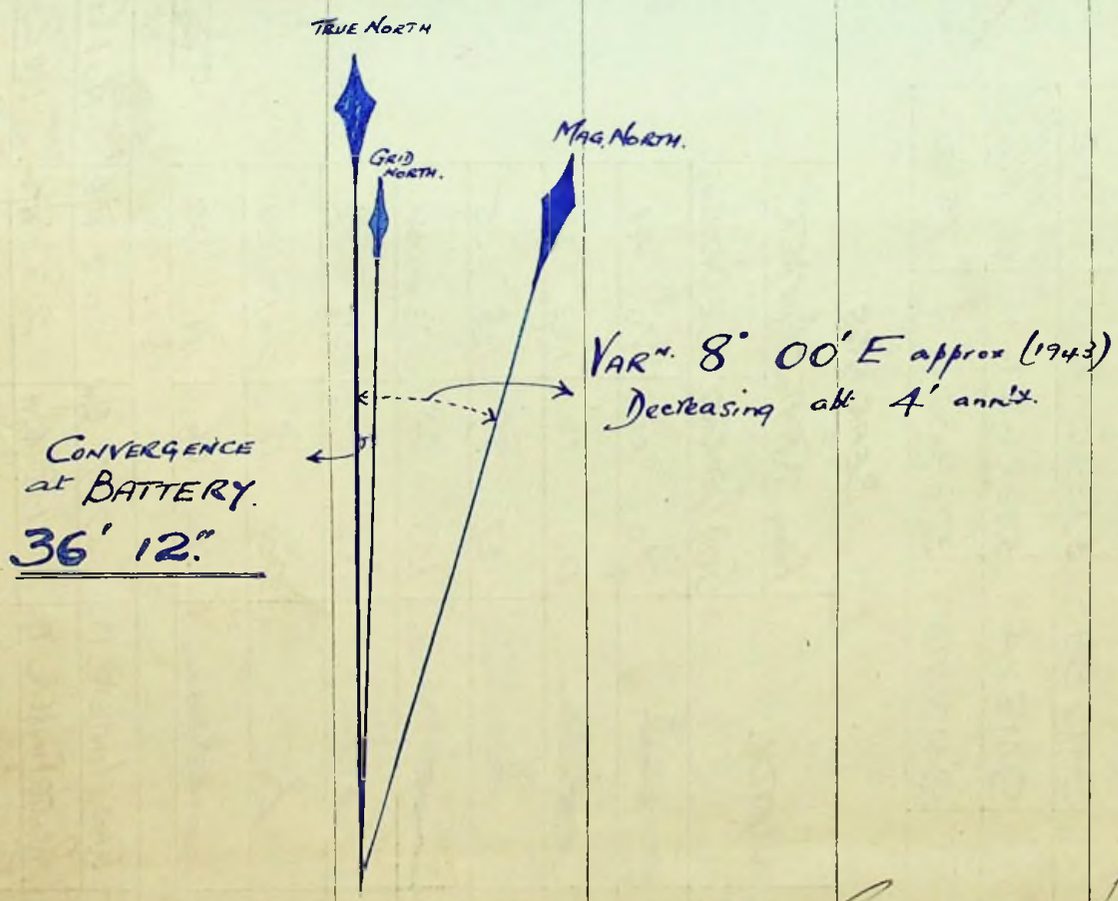
DISPLACEMENT IN YARDS.				
RANGE FINDER IS.	0·7 E/W	20·7 N/S	FROM No 1 GUN
RANGE FINDER IS	21·8 E/W	2·3 N/S	FROM No 2 GUN.
RANGE FINDER IS	48·1 E/W	389·2 N/S.	FROM SEARCHLIGHT.

SURVEYED BY	Spr. J.A. Morgan RE
ENTERED BY	J.A. Morgan Spr RE.
CHECKED BY.	F.C. Stride Spr RE

G.S.G.S. Form 54

LIST OF CO-ORDINATES.

Station.	Co-ordinates. feet/metres. E (easting).	N (northing).	Height. feet/metres.	Sketch of Beacon.
~~Listed Coordinates of Points used in Scheme.~~				
Charles Pt Res Pt.	941811·5	3739199·3		
Charles Pt Batty Pt.	941778·6	3739024·0		
Cape Pembroke Lt Hse	945828·6	3735855·6		
Mengeary Lt Hse	945031·2	3740199·8		



Entered By. Jas Morgan Sa.
Checked By. E.G. Studer
Spr. RE

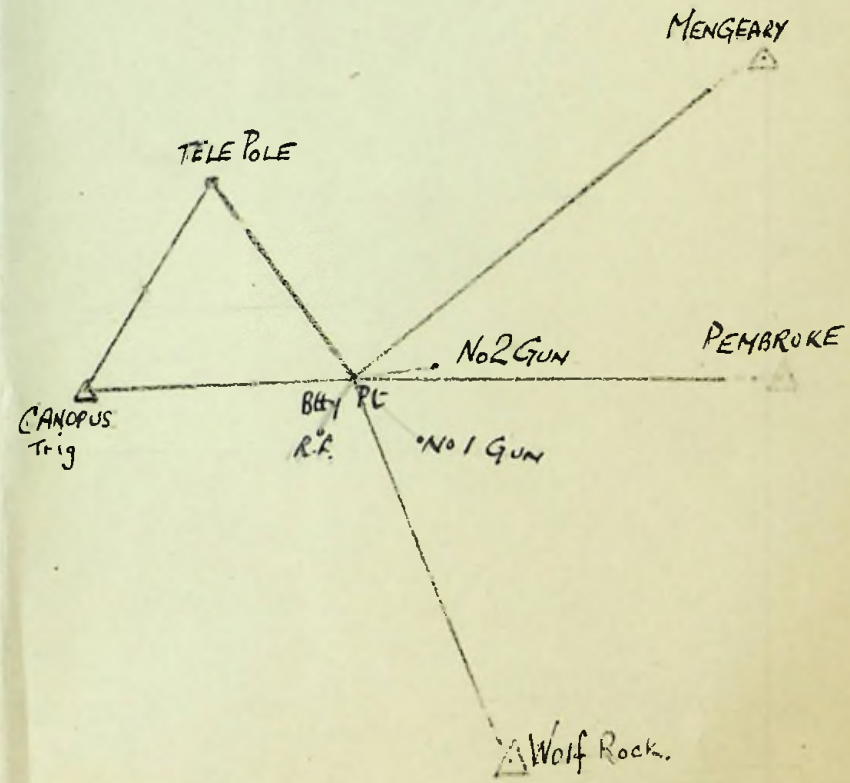
S M.E. 80000 3720 (6) 11-41

SURVEY DATA :— CANOPUS BATTERY.

COORDINATES.	EASTING (YARDS)	NORTHING.	HEIGHT IN FEET.	
RANGE FINDER	941 035·3	3734 902·7	116·2	TRUNNION AXIS
No 1 GUN	941 071·9	3734871·7	113·4	— " —
No 2 GUN.	941 072·7	3734 911·6	113·2.	— " —

AIMING OR RANGE POINT	SKETCH.	BEARINGS & RANGES FROM RANGE FINDER. GRID BEARING. °	'	TRUE BEARING °	'	SLANT RANGE IN YARDS
MENGEARY Lt Hse		37	02	37	39	6635
C. PEMBROKE Lt Hse		78	45	79	22	4887
WOLF ROCK (APPROX CENTRE)		150	22	150	58	5507

DIAGRAM.



DISPLACEMENT IN YARDS.				FROM
	RANGE FINDER IS.	36·6 E/W	31·0 N/S	No 1 GUN
	RANGE FINDER IS	37·4 E/W	8·9 N/S	No 2 GUN
	—	—	—	—

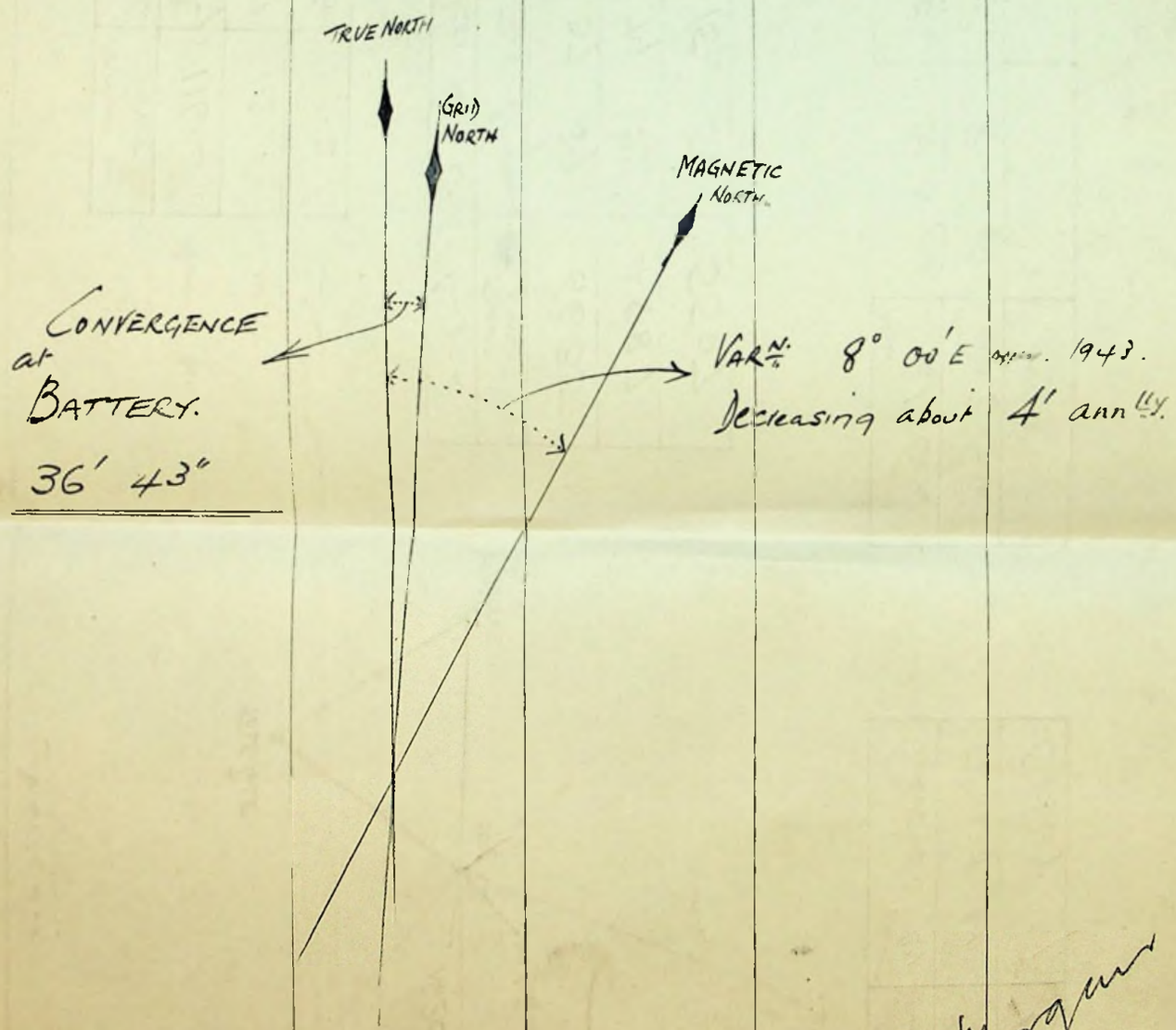
SURVEYED BY	Sa. Morgan Sgt RE.
ENTERED BY	Sa. Morgan Sgt RE.
CHECKED BY.	J. J. Stuart RE

19th Aug. 43.

G.S.G.S. Form 54

LIST OF Protected. CO-ORDINATES.

Station.	Co-ordinates. feet/metres. E (easting).	N (northing).	Height. feet/metres.	Sketch of Beacon.
Cape Pembroke Lt Hse.	945 828.6	3 735 853.6		
Mengeary Lt Hse.	945 031.2	3 740 199.8		
Wolf Rock (Approx Centre)	943 759.—	3 730 116.—		
Canopus. Δ.	940 910.2	3 734 891.0		



R.E.

Ap. La Morgan

S M.E. 3720 (6)
30000 11-41

3 VEY DATA:- Mt Low G. L. Receiver.

COORDINATES	EASTING (YARDS)	NORTHING (YARDS)	HEIGHT IN FEET
G.L. RECEIVER.	938739.9	3741676.6	526.9 (G.L)

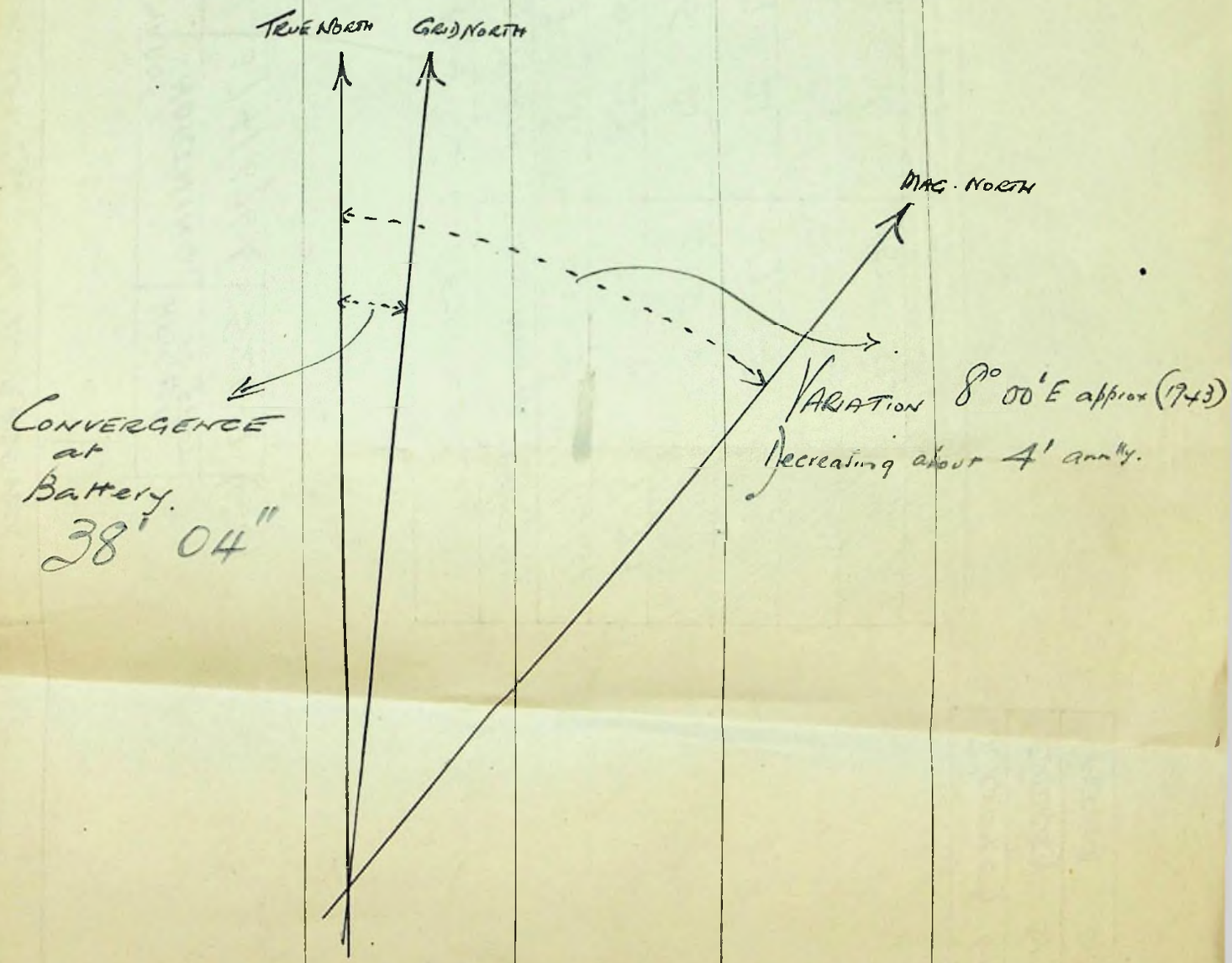
RANGE OR AIMING POINT	SKETCH.	FROM G. L. RECEIVER. GRID NORTH. °	'	TRUE NORTH °	'	SLANT RANGE IN YARDS.
MENGEARY Lt Hse		103	13	103	51	6464
C. PEMBROKE Lt Hse		129	23	130	01	9173
VIEW of SEA LEFT of MT WILLIAM		225	21	225	59	
VIEW of SEA RIGHT SAPPER HILL		217	21	217	59	
VIEW of SEA LEFT of SAPPER HILL		211	57	212	34	
VIEW of SEA WEST of LAND NORTH of TIP of BERKELEY SOUND		351	16	357	54	
VIEW of SEA ON TIP of LAND NORTH of BERKELEY SOUND		17	27	18	05	

SURVEYED BY.	H. Morgan Sgt. R.E.
ENTERED BY	H. Morgan. Sgt. R.E.
CHECKED BY.	W. Suddaby. Capt R.E.

G.S.G.S. Form 54

LIST OF CO-ORDINATES. (DISTORTED)

Station.	Co-ordinates. feet/metres. E (easting).	N (northing).	Height. feet/metres.	Sketch of Beacon.
Mengeary Lt Hse	945031·2	3740199·8		
Pembroke Lt Hse.	945828·6	3735855·6		



Checked.

FALKLAND ISLANDS SURVEY 1943.

ORIGINAL ABSTRACTS.

NAME OF STATION.

1. West Base
2. East Base
3. Camber
4. Point "D"
5. Cortley Hill
6. Cortley Hill
7. Sapper Hill
8. Two Sisters N.E.
9. Mt. McLoughlin
10. Canopus
11. Mengeary Lt. Ho.
12. Sapper Hill
13. Sapper Hill
14. Cortley Hill
15. Camber
16. Mount William
17. Two Sisters N.E.
18. Twelve o'Clock
19. Mount Low
20. Cape Pembroke Lt. Ho.
21. Mengeary Lt. Ho.
22. Mt. McLoughlin
23. Murrell River
24. Sapper Hill
25. Mount Misery
26. Saddleback (W)
27. Camber
28. Beacon (B)
29. Tumbledown Mt.
30. Saddleback (W)
31. Saddleback (E)
32. Charles Point
33. Lonely Ridge.
34. North Basin
35. Seal Point
36. Cannon Rocks
37. Rabbit Rocks
38. Dead Cow Pole
39. Penguin
40. Two Sisters N.E.
41. Mt. Mcloughlin
42. Hill 125
43. Mt. William
44. Sapper Hill
45. Mt. Harriet
46. 12 o'Clock & Aux. Point
47. Mt. Low Battery
48. Mt. Low Battery (Guns)
49. Mount Low
50. Buzzards
51. Sea Lion
52. Peat Ridge
53. Treburns
54. Eliza Cove
55. Canopus
56. Mengeary Lt. Ho.
57. Rincon
58. Mount Kent
59. Wall Mountain

NAME OF STATION.

60. Mt. Harriet & Aux. Point
61. Mt. Harriet Aux Point
62. Two Sisters N.E.
63. Mt. 1340
64. Mt. 1240
65. Mount Kent
66. Mount Vernet
67. North Basin
68. Rabbit Rocks
69. Saddle back (W)
70. Mount Misery
71. Long Island East
72. Long Island West
73. McGill's
74. Long Island Ridge
75. Mt. Misery
76. Sea View
77. 12 o'Clock Aux Point
78. Trig. Rock
79. Point "D"
80. Cortley Hill
81. Cath. & Town Hall Spires
82. Davis St: Lookout Rocks
83. Ross Road Brandon Road Dairy Paddock
84. Brandon Road Dairy Paddock: Villiers Street
85. Villiers Street: Valley Gate BM
86. Snake Hill
87. East Fence Junction
88. Lookout Rocks: Ridge Point
89. Valley Gate BM: R.A. Outpost
90. Sapper Hill
91. Ridge Point
92. East Point
93. Snake Hill
94. R.A. Command Post 359 Bty
95. Villiers Street Peg 359 Bty
96. G.L. Receiver 359 Bty
97. Predictor 359 Bty
98. Bearing Picquet 359 Bty
99. West Base
100. Jail Peg
101. Beagles
102. Cinema
103. Charles Point
104. Charles Point
105. Charles Point
106. Ordnance Point
107. Canopus Battery
108. Canopus
109. Sapper Hill
110. Eliza Cove
111. Cape Pembroke Lt. Ho.
112. Canopus
113. Charles Pt. & Mt. Low Bty
114. Mt.Low G.L. Receiver Peg
115. Canopus & Battery Peg

1

ABSTRACT OF ANGLES.

Station WEST BASE TERMINAL.

Date 10/4/43 Time – Weather – Inst. B.167. Height of inst. – Height of Beacon –

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CAMBER.	00	00	00	00	00	00	00	00	00					00	00	00			
" D"	53	23	46	23	46	23	45	23	47					53	23	46			
CORTLEY HILL	92	15	10	15	12	15	15	15	10					92	15	12			
CATH. SPIRE	126	33	15	33	19	33	17	33	17					126	33	17			
EAST BASE.	126	48	54	48	51	48	53	48	53					126	48	54			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CAMBER.									
" D"									
CORTLEY HILL									
CATH. SPIRE									
EAST BASE.									

BOOK (2)

Observer L/SGT. LOCKWOOD. Abstracted by L/SGT. LOCKWOOD.

Booker L/CPL. SUDDABY. Checked by L/Cpl. Suddaby.

(1)

2

ABSTRACT OF ANGLES.

Station EAST BASE TERMINAL

Date 10/4/43. Time – Weather – Inst. B.161 Height of inst. – 4'.12" Height of Beacon –

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
WEST BASE	00	00	00	00	00	00	00	00	00					00	00	00			
CAMBER	30	11	14	11	11	11	13	11	13					30	11	13	✓		
POINT "D"	63	32	09	32	10	32	18	32	20					63	32	14	✓		
CORTLEY HILL	124	41	48	41	30	41	48	41	37					124	41	41	✓		
EAST BASE AUX. POINT (HEIGHT 4'.1")																			
CATHEDRAL SPIRE				HEIGHT of inst. = 4'.2"															

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
WEST BASE									
CAMBER									
POINT "D"	+01	24	23	25	30	+01	24	57	
CORTLEY HILL									
EAST BASE AUX. POINT (HEIGHT 4'.1")									
CATHEDRAL SPIRE	+00	19	11	19	41	+00	19	26	

Note:- V.A. observed by Lt. G. Thomas 10.5.43

Bk (1)

Observer CPL. HARRY. Abstracted by L/SGT. LOCKWOOD.

Booker L/SGT. LOCKWOOD. Checked by [illegible]

(2)

3

ABSTRACT OF ANGLES.

Station CAMBER.

Date 12th APRIL. 1943 Time 10·00 hrs. Weather FINE. Inst. B·167 Jovi. Height of inst. Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F. R		F. L		Mean Horizontal Angles ~~Observed~~			~~Reduced to Face~~			Mean Horizontal Angles ~~Face R~~ OBSERVED.			F. L.		Mean V. A's			Sketch of Beacon
POINT "D" R.O.	00	00	00	00	00	00	00	00	00					00	00	00				00	00	00						
EAST BASE	41	22	50	22	47	22	47	22	51					41	22	49	✓			41	22	49	✓					
WEST BASE	64	22	40	22	37	22	37	22	37					64	22	38	✓			64	22	38	✓					
CORTLEY R.O.	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00												
CATHEDRAL SPIRE	23	09	09	09	07	08	57	09	00	09	05	09	02	23	09	02				23	09	03	✓					
SAPPERS HILL	79	39	38	39	43	39	30	39	28	39	38	39	27	79	39	32				79	39	34	✓					
CORTLEY R.O.	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	CAMBER – STATION MARK AT								
MOUNT WILLIAM	145	05	31	05	45	05	30	05	48	05	38	05	37	145	05	40	145	05	43	MT. WILLIAM TO BE RE-SITED.								WBL.

BK (2)

Observer L/Sgt Lockwood. Abstracted by L/Cpl Suddaby.

Booker L/Cpl Suddaby. Checked by L/Sgt. Lockwood.

3

4

ABSTRACT OF ANGLES.

Station POINT "D"

Date 12th APRIL 1943 *Time* 10.45 hrs. *Weather* FINE *Inst.* B.167. Jaxi. *Height of inst.* _____ *Height of Beacon* _____

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F. R		F.		Mean Horizontal Angles Observed			Mean Horizontal Angles Reduced to Centre		
CORTLEY R.O.	00	00	00	00	00	00	00	00	00	00	00			00	00	00			
CATHEDRAL SPIRE	32	01	31	01	24	01	18	01	29	01	19			32	01	24			
EAST BASE	65	46	02	45	59	45	54	45	57	46	02			65	45	59			
WEST BASE	108	48	45	48	43	48	38	48	45	48	42			108	48	43			
CAMBER	171	02	20	02	23	02	23	02	22	02	23			171	02	22			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CORTLEY R.O.									
CATHEDRAL SPIRE									
EAST BASE									
WEST BASE									
CAMBER									

Observer L/Sgt. Lockwood. *Abstracted by* L/Cpl Swadlaby.

Booker L/Cpl. Swadlaby. *Checked by* L/Sgt. Lockwood.

BK (2)

4

5

ABSTRACT OF ANGLES.

Station CORTLEY.

Date 12th APRIL. Time 14·30 hrs. Weather FINE. Inst. B.16Y Tavi. Height of inst. 3 feet 5 inches. Height of Beacon 6 ft 6" Top of flag 5 ft 2½ Bottom of flag.

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
EAST BASE RO	00	00	00	00	00	00	00	00	00										
WEST BASE	20	44	42	44	39	44	36	44	42					20	44	40	✓		
POINT "D"	53	04	29	04	28	04	26	04	26					53	04	27	✓		
MOUNT LOW RO	00	00	00	00	00	00	00	00	00					00	00	00			
SADDLEBACK (W)	279	20	16	20	24	20	21	20	18					279	20	20	✓		

Vertical Angles

Face R.			F. L.		Mean V. A's			Sketch of Beacon
00	35	56	34	50	+ 00	35	23	✓ Top of Flag.

Observer L/Sgt. Lockwood. Abstracted by L/Cpl. Suddaby.

Booker L/Cpl. Suddaby. Checked by L/Sgt. LOCKWOOD.

BK (2)

5

6

ABSTRACT OF ANGLES.

Station CORTLEY.

Date 12th APRIL 1943. *Time* 13·00 hrs. *Weather* FINE *Inst.* B·167 Tavi. *Height of inst.* 3 feet 5 inches. *Height of Beacon* 6 ft 6" Top of Flag 5 ft 2½" Bottom of Flag.

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT LOW R.O	00	00	00	00	00	00	00	00	00					00	00	00			
MENGEARY VANE	45	30	44	30	41	30	35	30	42					45	30	41			
CAPE PEMBROKE Vn	68	26	33	26	33	26	31	26	33					68	26	33	✓		
CANOPUS	77	06	40	06	39	06	30	06	31					77	06	35	✓		
SAPPERS HILL	194	35	37	35	45	35	45	35	41					194	35	42	✓		
MURREL RIVER	289	24	36	24	40	24	34	24	33					289	24	36	✓		
TWELVE O'CLOCK	333	42	11	42	11	42	08	42	16					333	42	12	✓		
MOUNT LOW R.O	00	00	00	00	00	00	00	00	00					00	00	00			
CATHEDRAL SPIRE	134	08	21	08	23	08	17	08	17					134	08	20	✓		
SAPPERS HILL	194	35	40	35	45	35	39	35	43					194	35	42	✓		
~~MOUNT WILLIAM~~	~~222~~	~~29~~	~~41~~	~~29~~	~~47~~	~~29~~	~~41~~	~~29~~	~~44~~	(STATION MARK TO BE RE-SITED)									
CAMBER	244	05	33	05	36	05	30	05	28					244	05	32	✓		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT LOW R.O	01	57	27	56	02	+01	56	45	Top of Bannerole
MENGEARY VANE	00	07	32	09	05	−00	08	19	TOP
CAPE PEMBROKE Vn	00	08	50	10	21	−00	09	36	TOP OF WHITE BAND
CANOPUS	00	10	29	11	52	−00	11	11	Ground Level.
SAPPERS HILL	01	39	41	38	45	+01	39	13	Bottom of Flag.
MURREL RIVER	00	07	39	06	03	+00	06	51	Top of Flag.
TWELVE O'CLOCK	01	52	53	51	10	+01	52	02	Top of Flag.
	01								
MOUNT LOW R.O									
CATHEDRAL SPIRE	01	05	08	06	40	−01	05	54	
SAPPERS HILL	01	39	41	38	45	01	39	13	Bottom of Flag
~~MOUNT WILLIAM~~	~~01~~	~~48~~	~~36~~	~~47~~	~~18~~	~~01~~	~~47~~	~~57~~	~~Top of Flag.~~
CAMBER									

Observer L/Sgt. Lockwood. *Abstracted by* L/Cpl. Suddaby.

Booker L/Cpl. Suddaby *Checked by* L/SGT. LOCKWOOD ✓

BK (2)

6

7/ HEIGHT FROM TOP OF PIPE TO TOP OF FLAG – 6'6"
" " " " " BOTTOM " " – 5'2"
" " OF LAMP AT CANOPUS – 3'4"

ABSTRACT OF ANGLES.

Station SAPPERS HILL

Date 14-4-43 Time A.M. Weather FINE Inst. TAY. B.61. Height of inst. 4'6" Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CORTLEY HILL	°	'	"	°	'	°	'	°	'					°	'	"			
CANOPUS	41	20	43	20	50	20	50	20	46					41	20	47			
MT. McLOUGHLIN	264	40	06	40	14	40	10	40	15					264	40	11			
MT. MISERY.	294	57	06	57	09	57	12	57	04					294	57	~~07~~ 08			
CAMBER.	309	09	23	09	25	09	20	09	31					309	09	25			
MOUNT LOW.	350	11	38	11	37	11	37	11	43					350	11	39			
POINT D.																			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CORTLEY HILL	– 01	38	50	39	08	– 01	38	59	TOP OF FLAG.
CANOPUS	– 00	49	15	48	50	– 00	49	02	CENTRE OF LIGHT
MT. McLOUGHLIN	+ 00	21	30	21	56	+ 00	21	43	TOP OF FLAG.
MT. MISERY.	+ 00	02	08	02	30	+ 00	02	19	TOP OF FLAG.
CAMBER.									
MOUNT LOW.	+ 00	44	45	44	24	+ 00	44	34	TOP OF FLAG.
POINT D.	– 02	03	00	04	00	– 02	03	50	TOP OF FLAG

OBS. BOOK. No. 1.

Observer CPL. D.A. HARRY Abstracted by [illegible]

Booker SPR. E. JACKSON Checked by Spr. E. Jackson

7/

8

ABSTRACT OF ANGLES.

Station TWO SISTERS N.E.

Date 14/4/43 Time _____ Weather _____ Inst. B.161. Height of inst. 5' 0" Height of Beacon ABOVE TOP OF PIPE. BANNER TOP 6' 4" BOTTOM 5' 1"

Horizontal Angles

Station	Face. R			F. R		F. R		F. L		F. L		F. L		Mean Horizontal Angles Observed			Reduced to Centre		
SADDLEBACK (W)	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
MT. MISERY	05	09	35	09	50	09	41	09	47	09	46	09	54	05	09	45			
TWELVE-O-CLOCK	46	23	45	24	06	23	51	23	40	23	34	24	00	46	23	~~51~~ 49			
MOUNT LOW	53	46	03	46	26	46	18	46	05	46	04	46	14	53	46	12			
SAPPER HILL	93	08	37	08	52	08	51	08	40	08	52	08	39	93	08	45			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
SADDLEBACK (W)	01	12	35	13	18	− 01	12	56	TOP OF BANNER
MT. MISERY	00	54	30	54	25	− 00	54	28	" "
TWELVE-O-CLOCK	00	16	10	17	00	− 00	16	35	" "
MOUNT LOW	00	11	50	11	50	− 00	11	50	" "
SAPPER HILL	01	05	05	05	46	− 01	05	25	" "

BOOK (1)

Observer CPL. HARRY. Abstracted by L/SGT. LOCKWOOD

Booker L/SGT. LOCKWOOD Checked by [illegible]

8

9

ABSTRACT OF ANGLES.

Station MT. McLOUGHLIN

Date 14/4/43. Time _____ Weather _____ Inst. B.161. Height of inst. 4' 8" Height of Beacon BANNER TOP 6' 6" BOTTOM. 5' 2"

Horizontal Angles

Station	Face. R			F. R		F. R		F. L		F. L		F. L		Mean Horizontal Angles Observed			Mean Horizontal Angles Reduced to Centre		
MT. MISERY.	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
TWELVE-O-CLOCK	56	28	44	28	45			28	45	28	37	28	36	56	28	43			
MOUNT LOW	65	36	44	36	44			~~36~~	~~35~~	36	47	36	34	65	36	42			
SAPPER HILL	120	35	59	36	05			36	00	~~36~~	~~17~~	36	11	120	36	04			

Vertical Angles

Station	Face R.			F. L.			Mean V. A's			Sketch of Beacon
MT. MISERY.	00	14	50	15	30	−	00	15	10	TOP OF BANNER
TWELVE-O-CLOCK	00	24	05	23	30	+	00	23	48	" "
MOUNT LOW	00	21	56	20	45	+	00	21	20	" "
SAPPER HILL	00	24	24	25	16	−	00	24	49	" "

BOOK (1)

Observer CPL. HARRY Abstracted by L/SGT. LOUGHWOOD.

Booker L/SGT. LOUGHWOOD Checked by [illegible]

9

No 10

ABSTRACT OF ANGLES.

Station CANOPUS

Date 3. 4. 43 Time 15·30 hrs. Weather Dull Inst. Tavi. B108 Height of inst. 4 feet 3 inch Height of Beacon —

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Sugarloaf Hill RO	00	00	00	00	00	00	00	00	00					00	00	00			
Corvley Hill	21	10	17	10	15	10	15	10	17					21	10	16	✓		
Mc. Low	76	32	12	32	09	32	12	32	15					76	32	12	✓		
Mengeary Lt. Ho.	140	41	35	41	08	40	56	41	01					140	41	02	✓		
Cape Pembroke Lt. Ho.	181	46	02	45	56	46	00	46	03					181	46	00	✓		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Sugarloaf Hill RO	00	42	40	46	00	+ 00	44	50	Top of Flag.
Corvley Hill									
Mc. Low	01	42	15	44	31	+ 01	43	23	✓ Ground Level.
Mengeary Lt. Ho.	00	04	37	04	28	- 00	04	33	✓
Cape Pembroke Lt. Ho.	00	05	42	04	49	- 00	05	17	✓

Height of Bumpers: —

Book (3)

Observer Cpl. G. Thomas Abstracted by G. Thomas

Booker Cpl. Suddaby Checked by S/Cpl. Suddaby

10

11

ABSTRACT OF ANGLES.

Station Grengray Lt. No. (Bab)

Date 14th April '43 Time 12.00 hrs Weather Fine, Windy Inst. Tavi. B 108 Height of inst. 4 feet 11 inches Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Campbells R.O.	00	00	00	00	00	00	00	00	00					00	00	00	00	00	00
~~Lt. Lns~~	~~66~~	~~52~~	~~29~~	~~52~~	~~23~~	~~52~~	~~22~~	~~52~~	~~21~~					~~00~~	~~52~~	~~24~~	✓ SEE	NO.	(21)
Cape Kemp Lt.	311	46	18	46	21	46	19	46	23					311	46	20	✓ 311	46	37
Lt. No. 5	~~24~~																		
Centre	251	40	14	00	21									251	24	18	✓		

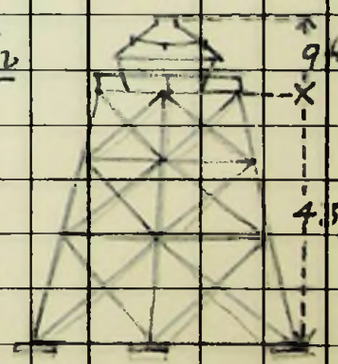
Dist. to Centre = 1.45 metres ✓

SEE ALSO (21)

Vertical Angles

Face R.			F. L.		Mean V. A's			Sketch of Beacon
00	00	50	01	23	+ 00	01	07	✓ Top of Flag.
01	48	15	48	51	+ 01	48	33	✓ Light.
00	03	00	01	55	- 00	02	28	✓

Ht. of Lt. No.
53 ft. 4½ in



Book (3)

Observer L/Cpl. G. Thomas Abstracted by L/Cpl. G. Thomas.

Booker L/Cpl. W. Suddaby Checked by S/Cpl Suddaby.

11

12 Book No. 4.

ABSTRACT OF ANGLES.

Station Sappers Hill △

Date 15·4·43. Time forenoon. Weather Fair. Inst. Tavi B. 161. Height of inst. 4·3" Height of Beacon 6'6" 3'2"

Horizontal Angles

Station	Face. L			F. R		F. L		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Portley Hill R.O.	00	00	00	00	00	00	00	00	00										
Mount William △	231	22	40	22	40	22	44	22	37.					231	22	40			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Mount William △	01	37	46	37	38	+ 01	37	42	R ← Light.

Book (4)

Observer J. J. Bunn Jr R.S. Abstracted by J. J. Bunn.

Booker J. J. Bunn Checked by Lieut. Thomas.

12

13

ABSTRACT OF ANGLES.

Station SAPPERS HILL

Date 15·4·43 Time P.M. Weather FINE Inst. TAUL. B167 Height of inst. 5'.3" Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CORTLEY HILL	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
TWO SISTERS N.E.	246	29	34	29	56	29	51	29	46	29	45	29	56	246	29	48			
MURREL RIVER	300	00	11	00	11					00	09	00	09	300	00	09			
12 O'CLOCK	332	27	52	28	01					27	53	28	03	332	27	57			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CORTLEY HILL									
TWO SISTERS N.E.	+ 01	02	18	00	44	+ 01	01	31	
MURREL RIVER	− 00	36	03	37	51	− 00	36	57	
12 O'CLOCK	+ 00	43	50	42	16	+ 00	43	03	

Book (2)

Observer L/SGT. LOCKWOOD Abstracted by [illegible]

Booker D.A. HARRY Checked by W. Lockwood.

13

14

ABSTRACT OF ANGLES.

Station CORTLEY HILL

Date 15. 4. 43 Time 11.30 hrs. Weather Fair Inst. Tavi B 108 Height of inst. 5'8" Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
hb. Low Ro.	00	00	00	00	00	00	00	00	00					00	00	00			
hb. William	222	29	08	29	15	29	13	29	12					222	29	12			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
hb. Low Ro.	+ 01	47	54	48	38	+ 01	48	16	Light.
hb. William									

Book No. 3

Observer Capt. G. Thomas Abstracted by G. Thomas

Booker Sgt. E. Jackson Checked by J. J. Burn

19

15

ABSTRACT OF ANGLES.

Station CAMBER

Date 15. 4. 43 Time 10.30 hrs Weather Fair Inst. Tavi. B.108 Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cortney Hill R.D.	00	00	00	00	00	00	00	00	00					00	00	00			
Lt. William	145	05	25	05	30	05	29	05	30					145	05	29			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		

Sketch of Beacon

Book No. 3

Observer L/Cpl. G. Thomas Abstracted by G. Thomas

Booker Gnr. L. Jackson Checked by J. Bunn

15

16

ABSTRACT OF ANGLES.

Station Mount William.

Date 14-4-43 Time A.M. Weather Fine & Clear. Inst. TAVI. B167. Height of inst. 2' 11½" Height of Beacon

BANNER - TOP:- 6'8" ABOVE PIPE; BOTTOM 5' 5" -- -- LAMP 2' 4½"

Horizontal Angles / Vertical Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
N.E. Two Sisters	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00				+ 00	37	09	35	34	+ 00	36	22	
Camber	118	01	52	02	00	01	52	01	59	01	49	01	58	118	01	55												
Cortney Hill	131	19	49	20	03	20	08	20	00	20	03	19	54	131	19	59				- 01	49	45	51	19	- 01	50	32	
Sappers Hill	154	49	04	49	20	49	13	49	17	49	11	49	19	154	49	14				- 01	37	51	39	27	- 01	38	39	
West Saddle Back	41	44	04	44	05	44	00	43	59					41	44	02				- 00	28	16	30	05	- 00	29	10	
Mount Misery	54	34	27	34	33	34	23	34	25					54	34	27				- 00	27	07	29	07	- 00	28	05	Ground Level
Murrel River	73	10	40	10	40	10	32	10	32					73	10	36				- 01	30	39	32	17	- 01	31	28	
12 o'clock	96	32	18	32	18	32	00	32	14					96	32	14				+ 00	02	16	00	36	+ 00	01	26	
Mount Low	109	38	47	38	49	38	47	38	40					109	38	46				+ 00	04	35	02	54	+ 00	03	45	Ground Level

Book (2)

Observer H/Sgt. Lockwood Abstracted by D.A. Harry.

Booker D.A. Harry. Checked by W. Lockwood.

16

17

ABSTRACT OF ANGLES.

Station TWO SISTERS (N.E POINT)

Date 15·4·43 Time 12·30 hrs Weather Fair Inst. Wild B18 Height of inst. 5'2" Height of ~~Beacon~~ ~~2'~~

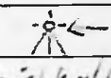
Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Sandbrook W.20	00	00	00	00	00	00	00	00	00					00	00	00			
Stephens Hill	93	08	48	08	43	08	43	08	42					93	08	44			
Mt. William	103	12	22	12	20	12	21	12	22					103	12	21			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
Mt. William	00	39	09	38	17	-00	38	45
	00	39	07	38	25			

Sketch of Beacon



Height of Light 2'5"

Book (3)

Observer Hpl. G. Thomas Abstracted by G. Thomas.

Booker G. Thomas. Checked by H. Peter Gregory

17

18

ABSTRACT OF ANGLES.

Station TWELVE O'CLOCK MOUNTAIN

Date 16-4-43 Time A.M. Weather FINE Inst. THEO. B161 Height of inst. 4' 8" Height of Beacon

TOP OF FLAG 6' 4"
BOTTOM " " 5' 0"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT MISERY	00	00	00	00	00	00	00	00	00					00	00	00			
CORTLEY HILL	246	25	54	25	59	25	47	25	50					246	25	53			
SAPPERS HILL	259	47	15	47	17	47	05	47	24					259	47	18			
MURREL RIVER	315	27	32	27	27	27	25	27	30					315	27	28			
SADDLEBACK (WEST)	337	43	55	43	49	43	45	43	50					337	43	50			
MOUNT WILLIAM	280	25	05	25	03	25	02	24	56					280	25	02			
TWO SISTERS	307	04	11	04	00	04	01	04	04					307	04	04	(4' 5" HEIGHT	OF LAMP)	
MOUNT MCLOUGHLIN	307	52	19	52	18	52	22	52	18					307	52	19			
LATER FOR TIME																			
CENTRE OF MURREL HO. CHY. POT	298	20	25	20	20	20	33	20	24					298	20	25			
WIRELESS MAST (B)	278	16	13	16	27	16	18	16	20					278	16	20			
" " TALLER (A)	278	34	52	34	54	35	03	34	50					278	34	55			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT MISERY	− 00	42	30	42	25	− 00	42	28	
CORTLEY HILL	− 01 00	53 01	30	54	30	− 01	54	00	
SAPPERS HILL	− 00	46	10	45	40	− 00	45	55	
MURREL RIVER	− 02	18	35	18	40	− 02	18	37	
SADDLEBACK (WEST)	− 00	33	20	34	30	− 00	33	55	
MOUNT WILLIAM	− 00	05	55	05	50	− 00	05	52	CENTRE OF LIGHT
TWO SISTERS	+ 00	12	13	11	10	+ 00	11	42	CENTRE OF LIGHT
MOUNT MCLOUGHLIN	− 00	27	17	27	15	− 00	27	16	CENTRE OF LIGHT
LATER FOR TIME									
CENTRE OF MURREL HO. CHY. POT	− 03	25	45	26	35	− 03	26	10	TOP OF POT.
WIRELESS MAST (B)	− 01	11	20	11	30	− 01	11	25	TOP OF MAST
" " TALLER (A)	− 01	10	10	10	40	− 01	10	25	" " "

BOOK (1)

Observer CPL. D. A. HARRY Abstracted by [illegible]

Booker SGT. E. JACKSON Checked by E. Jackson.

18

19 Book No. 4

ABSTRACT OF ANGLES.

Station Mount Low △

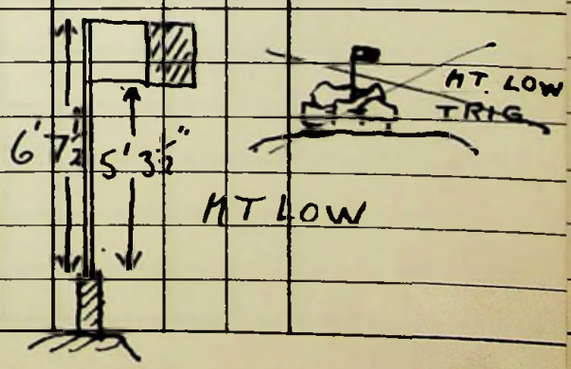
Date 16.4.43. Time _____ Weather Fine. Inst. Tavi B.167. Height of inst. 3'9½" Height of Beac[illegible]

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Mt. Misery R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
Mengeary Lt. Ho.	179	34	55	35	00	35	01	34	51	34	57	34	56	179	34	57			
Cape Pemaroke W. Ho.	201	36	30	36	37	36	39	36	35					201	36	35			
Canopus	228	34	28	34	28	34	30	34	19					228	34	26			
Cortley.	276	05	52	05	46	05	49	05	44					276	05	48			
Sapper Hill	280	53	09	53	03	52	51	53	09					280	53	03			
Mt. William	296	53	36	53	32	53	44	53	37					296	53	37			
Two Sisters	317	48	37	48	33	48	38	48	37					317	48	36 ~~37~~			
Mt. McLoughlin	320	22	26	22	19	22	27	22	13					320	22	21			
Morrell Riv.	330	41	29	41	30	41	31	41	27					330	41	29			
Saddleback N.	343	23	01	23	04	23	14	23	10					343	23	07			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Mt. Misery R.O.	-00	35	57	37	35	-00	36	46	
Mengeary Lt. Ho.	-01	52	15	53	50	-01	53	02	Platform
Cape Pemaroke W. Ho.	-01	24	54	26	42	-01	25	58	
Canopus	-01	46	54	48	38	-01	47	46	
Cortley.	-01	57	47	59	20	-01	58	33	
Sapper Hill	-00	47	35	49	27	-00	48	31	
Mt. William	-00	08	26	10	17	-00	09	22	Light.
Two Sisters	+00	06	47	04	32	+00	05	39	
Mt. McLoughlin	-00	25	04	26	50	-00	25	57	
Morrell Riv.	-01	35	53	37	30	-01	36	41	
Saddleback N.	-00	29	34	31	19	-00	30	26	



Observer J. J. Bunn Sgt. R.S. Abstracted by J. J. Bunn

Booker C. G. Strick Sgt. R.S. Checked by C. G. Strick

19

20

SATELLITE

ABSTRACT OF ANGLES.

Station CAPE PEMBROKE LIGHTHOUSE

Date 17.4.43 Time A.M. Weather FINE Inst. TAUL. B161 Height of inst. 5'7" Height of Beacon

Horizontal Angles

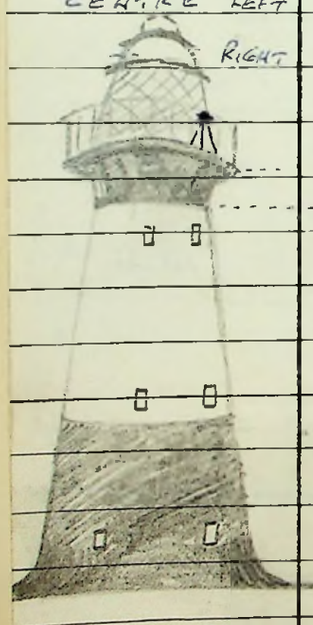
Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT LOW	00	00	00	00	00	00	00	00	00					00	00	00	00	00	00
MENGEARY LTHOUSE	42	54	25	54	33	54	27	54	35					42	54	30	42	53	20
CANOPUS	312	10	37	10	40	10	40	10	38					312	10	39	312	11	37
CORTLEY HILL	322	55	20	55	25	55	20	55	30					322	55	24	322	55	48
CENTRE LEFT	120	45	40	121 11	40									120	58	40			
RIGHT	215	22	40	214 31	40								MEAN CENTRE	167 214	57 57	55 10			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
MOUNT LOW	+ 01	21	08	20	55	+ 01	21	01
MENGEARY LTHOUSE	− 00	01	30	01	46	− 00	01	38
CANOPUS	+ 00	02	30	02	10	+ 00	02	20
CORTLEY HILL	+ 00	04	35	04	00	+ 00	04	17
	+ 00	02	30	02	10	+ 00	02	20

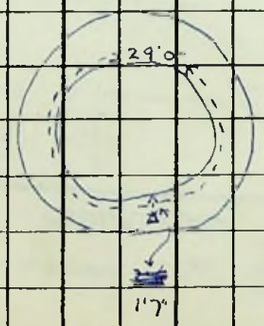
Sketch of Beacon

TOP OF PLATFORM



CIRCUMFERENCE OF TOWER — 29' 0"

DISTANCE FROM TRIE TO SIDE OF TOWER — 1' 7"



BOOK (1)

Observer CPL. D.A. HARRY Abstracted by S.V. Harry

Booker SPR. E. JARRSON Checked by E. Fulton

20

BRUNSVIGA FORM NO. 7 G.S.G.S. Form 66

REDUCTION TO CENTRE.

STATION Cape Pembroke Lt House DISTANCE TO CENTRE (*d*) 1·589 metres

Trig. Points and Station Mark	Round as Obs. R.O.	Dist.	Round red. to Stat. Mark	Sine (θ)	Corr. (*)	Round Corrected
A Mount Low.	00 00 00	10·025	192 02 00	0·20848	−08 +08 00	00 00 00
B Mungeesy Lt Ho	42 54 30	4·115	234 56 30	0·81857	−78 +08 −70	42 53 20
C Canopus.	312 10 39	4·520	144 12 39	0·58480	+50 +08 +58	312 11 37
D Cottey Hill.	322 55 24	10·250	154 57 24	0·42230	+16 +08 +24	322 55 48
E Centre.	167 58 00					
F						
G						

COMPUTATION.

(*) > 180 degs. plus.

< 180 degs. minus.

Corr. in Seconds = $\frac{1000 \times \text{Sine}(\theta) \times K}{\text{Distance}}$.

K = ·2063 × *d*.

= 389·701

21

(Sal)

ABSTRACT OF ANGLES.

Station Mergeary Point Lighthouse

Date 16·4·43 Time 10·30 hrs Weather Fair Inst. Zeiss B108 Height of inst. 4ft. 10½ins. Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Canopus R.O	00	00	00	00	00	00	00	00	00					00	00	00	00	00	00
Cortley	28	53	52	53	56	54	03	53	44					28	53	54	28	53	28
Int. Low (Banderole)	66	52	32	52	29	52	29	52	29					66	52	30	66	51	47

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Cortley	00	03	51	04	30	+00	04	10	Height of Light 26"

SEE ALSO NO (11)

Book (3)

Observer Lt. G. Thomas. Abstracted by G. Thomas.

Booker Gnr. A. Pleas Gregory Checked by H. Pleas Gregory.

21

STATION Mungeary Light House DISTANCE TO CENTRE (d) 1·45 metres.

Trig. Points and Station Mark	Round as Obs. R.O.			Dist.	Round red. to Stat. Mark			Sine (θ)	Corr. (")	Round Corrected		
A Canopus.	00	00	00	6·180	108	35	42	0·94780	+46 −46 00	00	00	00
B Cottley.	28	53	54	10·325	137	29	36	0·67568	+20 −46 −26	28	53	28
C Mount Lord.	66	52	30	7·450	175	28	12	0·07898	+1·03 −46 −43	66	51	47
D Cape Pembroke	311	46	20	4·115	60	22	02	0·86921	+63 −46 +17	311	46	37
E Centre.	251	24	18		00	00	00					
F												
G												

COMPUTATION.

(") ∢ 180 degs. plus.
∢ 180 degs. minus.

Corr. in Seconds = $\frac{1000 \times \text{Sine}(\theta) \times K}{\text{Distance}}$.

K = ·2063 × d.

K = 299·135

S.M.E. 2347F
5000 2-37

Lt Cudlebly
4 Cpl RE

Book. No. 4.

22

ABSTRACT OF ANGLES.

Station Mount McLoughlin.

Date 20.4.43. Time Noon. Weather Fine Inst. Tavi B.167. Height of inst. 4' 7" Height of Beacon Lamp 3'.8"

Horizontal Angles

Station	Face.	F.	F.	F.	F.	F.	Mean Horizontal Angles Observed	Reduced to Centre
Mount McLoughlin R.C.	00. 00 00	00 00	00 00	00 00			00 00 00	
" Low.	65 36 49	36 45	36 41	36 43			65 36 43	✓
N. Wireless Mast.	111 01 49	01 52	01 53	01 50			111 01 51	✓
S. " "	111 54 29	54 34	54 37	54 40			111 54 35	✓
Aux Point.	331 26 16	26 23	-	-			331 26 20	✓

(SEAWARD) Distance Mt. McLoughlin to Aux Pt. = 85 feet or 25 metres

(Measured from telescope to top of pipe at Aux Pt.)

Vertical Angles

Station	Face R.	F. L.	Mean V. A's
Mount McLoughlin R.C.	-01 04 06		
" Low.			
N. Wireless Mast.	-01 04 26	06 04	-01 05 15
S. " "	-01 06 04	07 20	-01 06 42
Aux Point.	+06 42 11	40 32	+06 41 21

Sketch of Beacon: Top of Mast. " " " Top of Pipe.

Observer J.J. Bunn 4c R.E. Abstracted by J.J. Bunn

Booker Dr. Dobson Checked by W. Suddaby. L/Cpl. R.E.

22

23

ABSTRACT OF ANGLES.

Station MURREL ~~to~~ RIVER.

Date 19-4-43 Time A.M Weather SHOWERY Inst. TAVI. B161 Height of inst. 5'0" Height of Beacon

TOP OF BANNEROLL 6' 4"
-- -- -- 4' 11"

Horizontal Angles

Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
12 O'CLOCK MOUNTAIN	00	00	00	00	00	00	00	00	00					00	00	00				+ 02	17	18	16	40	+ 02	16	59	TOP OF FLAG
MOUNT LOW	11	51	50	51	55	51	52	52	00					11	51	54				+ 01	34	10	33	30	+ 01	33	50	-- --
CORTLEY HILL	66	40	36	40	36	40	45	40	45					66	40	40				- 00	08	10	08	40	- 00	08	25	-- --
SAPPERS HILL	91	51	55	51	46	51	55	51	50					91	51	51				+ 00	34	55	33	50	+ 00	34	23	-- --
MOUNT WILLIAM	121	33	35	36	06	36	02	35	58					121	36	00				+ 00	29	50	29	00	+ 01	29	25	-- --
(TALLER) (A) WIRELESS MAST	105	11	24	11	19	11	25	11	25					105	11	23				+ 00	29	45	28	45	+ 00	29	15	TOP OF MAST
(B) -- --	105	17	17	17	17	17	28	17	21					105	17	21				+ 00	26	36	27	20	+ 00	26	58	-- -- --

(1)

Observer CPL. D.A. HARRY Abstracted by ~~D.A.Harry~~

Booker CPR. E. JACKSON Checked by E. Jackson

23

Book No. 4

24

ABSTRACT OF ANGLES.

Station Sappers Hill △

Date 22.4.43. Time forenoon. Weather foggy. Inst. Tavi 3.167. Height of inst. 4' 3½" Height of Beacon

Horizontal Angles

Station	Face. R.			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Centre △ R	00	00	00	00	00	00	00	00	00					0	00	00			
Water Tank Centre	34	35	00	34	56	35	03	34	+9					34	34	57			
Lonley Farm N. Chy	207	24	11	34	03	24	08	24	03					207	24	06			
South Wireless Mast	278	06	44	06	44	06	44	06	40					278	06	43			
North " "	279	04	54	04	57	04	57	04	50					279	04	54			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Centre △ R	-01	47	08	49	13				
Water Tank Centre	-01	47	08	49	13	-01	48	10	✓
Lonley Farm N. Chy	-02	16	08	18	08	-02	17	08	✓
South Wireless Mast	-00	43	12	44	57	-00	44	04	✓ Top of Mast
North " "	-00	39	24	41	06	-00	40	15	✓ " " "

Observer J. J. Burn 4/A. Abstracted by J. J. Burn

Booker Dos. Evans Checked by W. Suddaby Wm Re.

24

25

ABSTRACT OF ANGLES.

Station Mt. Kiseley

Date 20·4·43 Time 10·30 hrs Weather Fair (with haze at times) Inst. Tavo B108 Height of inst. 4 ft. 6 ins Height of Beacon 6'2" 4'3"

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F. R		F. L		Mean Horizontal Angles Observed			Mean Horizontal Angles Reduced to Centre		
12 o'clock Mt. Ro.	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00			
Coppins hill	42	16	25	16	34	16	37	16	30					42	16	31			
Mt. William	58	27	05	27	13	27	04	27	16					58	27	10			
Mt. Melrachlin	71	23	36	23	37	23	29	23	36					71	23	34			
~~Mt. Lyndhurst~~ Sisters	895	49	56	50	15	50	15	50	16	49	56	50	00	895	50	06			
Mt. Low.	356	37	58	37	56	37	58	37	55					356	37	57			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
12 o'clock Mt. Ro.	+ 00	39	32	40	10	+ 00	39	51	P
Coppins hill	− 00	08	10	07	21	− 00	07	46	P
Mt. William	+ 00	22	31	23	06	+ 00	22	49	P
Mt. Melrachlin	+ 00	12	05	12	33	+ 00	12	19	P
~~Mt. Lyndhurst~~ Sisters	+ 00	49	06	50	02	+ 00	49	34	~~G.L.~~ P
Mt. Low.	+ 00	31	15	32	29	+ 00	31	52	G.L.

BOOK No

Observer Lt. G. Thomas Abstracted by G. Thomas

Booker Lt. E. G. Stride Checked by E. G. Stride

25

26

ABSTRACT OF ANGLES.

Station Saddleback W.

Date 19. 4. 43 Time 12.00 hrs Weather Showery & Windy Inst. Wild B108 Height of inst. 4 feet 4 ins Height of Beacon 26'3" 4'3"

Horizontal Angles

Vertical Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Thos Sisters R.S.	00	00	00	00	00	00	00	00	00					00	00	00				+01	10	30	11	14	+01	10	52	
12 o'clock hub.	257	03	20	03	27	03	29	03	28					257	03	26				+00	29	25	30	34	+00	30	00	
Hub. Gov.	259	20	37	20	39	20	40	20	49					259	20	41				+00	24	20	25	22	+00	24	51	S. L.
Cross	291	23	40	23	43	23	45	23	36					291	23	41				−00	40	38	39	31	−00	40	04	
Hub. William R.S.	324	56	41	56	36	56	34	56	21					324	56	~~40~~ 35				+00	25	04	26	05	+00	25	34	

See Abstract No. 30

Book No ( )

Observer [illegible] Abstracted by [illegible]

Booker [illegible] Checked by [illegible]

26

Book No. 4.

ABSTRACT OF ANGLES.

Station CAMBER △

Date 28. 4. 43. Time forenoon. Weather Fine. Inst. R. 167. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face. R.			F. L		F. L		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Point "D" R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
Monument	33	51	42	51	58	51	47	51	51					33	51	50			
Water Tank.	34	55	31	55	40	55	38	55	29					34	55	38			
South W/T Mast	178	37	02	37	15	37	15	37	01					178	37	08			
North " "	181	30	59	31	12	31	09	30	56					181	31	04			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Point "D" R.O.									
Monument									
Water Tank.									CENTRE.
South W/T Mast									
North " "									

Observer J. J. Bunn 4c R.E. Abstracted by J. J. Bunn

Booker A. C. Watt. Dr. R.E. Checked by W. Suddaby 4cpl R.E.

28

RESECTION

ABSTRACT OF ANGLES.

Station SGA BEACON B.

Date 28.4.43 Time A.M. Weather FINE Inst. TAVI. B.6 Height of inst. 4'7" Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CANOPUS	00	00	00	00	00	00	00	00	00					00	00	00			
CAPE PEMBROKE LT.HO.	03	13	15	13	05	13	17	13	08					03	13	11			
SAPPERS HILL	186	40	59	41	04	41	02	40	58					186	40	01			
TUMBLEDOWN	197	32	40	32	44	32	47							197	32	43			
POINT D	221	12	00	11	57	11	52	12	03					221	11	58			
CORTLEY HILL	232	39	15	39	19	39	18	39	28 ~~09~~					232	39	20 ~~15~~			
MOUNT LOW	285	33	05	33	04	33	12	33	09					285	33	07			
MEINGARY LT. HO.	336	45	15	45	22	45	21	45	23					336	45	20			
CENTRE OF BEKN	117	09	00	24	00									117	16	30			
DISTANCE A TO CENTRE OF BEACON —												7'	11"						

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CANOPUS	− 00	00	35	00	20	− 00	00	27	TOP OF FLAG
CAPE PEMBROKE LT.HO.									
SAPPERS HILL	+ 01	23	40	22	50	+ 01	23	15	TOP OF FLAG.
TUMBLEDOWN									
POINT D	+ 00	10	00	10	20	+ 00	10	10	TOP OF FLAG.
CORTLEY HILL	+ 00	19	20	17	40	+ 00	18	00	" " "
	+ ~~00~~	~~10~~	~~00~~	~~10~~	~~20~~	+ ~~00~~	~~10~~	~~10~~	
MOUNT LOW									
MEINGARY LT. HO.									
CENTRE OF BEKN									

BOOK (6)

Observer CPL. D.A. HARRY Abstracted by D.A. Harry

Booker SPR. E. JACKSON Checked by E. Jackson.

28

29

ABSTRACT OF ANGLES.

(REFLECTION)

Station TUMBLE DOWN MOUNTAIN.

Date 27-4-43 Time A.M. Weather BRIGHT & WINDY Inst. TAVI. B161 Height of inst. 3' 5" Height of Beacon

HT. TOP OF BANNEROLE 6' 2"

HT. BOTTOM -- -- 4' 4"

Horizontal Angles — Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
SAPPERS HILL	00	00	00	00	00	00	00	00	00					00	00	00				- 01	18	01	18	30	- 01	18	15	TOP OF FLAG.
MT. WILLIAM	28	33	51	33	55	33	51	34	01					28	33	55				- 00	14	55	15 ~~14~~	54 ~~35~~	- 00	15 ~~14~~	24 ~~49~~	-- --
TWO SISTERS *	184	54	4 ~~53~~	54	50	54	41	54	44					184	54	5 ~~47~~				+ 00	44	40	45	20	+ 00	45	00	-- --
MT. MCLOUGHLIN	234	59	18	59	10	59	09	59	09					234	59	11				- 01	12	07	11	52	- 01	12	00	-- --
MURREC RIVER	279	00	43	00	52	00	50	00	44					279	00	47												
TWELVE O'CLOCK	298	26	23	26	30	26	29	26	32					298	26	28				- 06	01	10	01	40	- 01	01	25	-- --
CORTLEY HILL	336	22	21	22	23	22	31	22	21					336	22	24				- 01	40	44	41	52	- 01	41	18	-- --

* TWO SISTERS — TREAT OBS. WITH CAUTION ONLY TIP OF FLAG VISIBLE ABOVE HIGH PEAK.

OBS. BOOK 6.

Observer CPL. D.A. HARRY Abstracted by DAHarry

Booker SPR. E. JACKSON Checked by E. Jackson.

29

(30)

ABSTRACT OF ANGLES.

Station SADDLEBACK WEST

Date 1·5·43 Time 12·30 hrs Weather Fair Inst. Tavi B108 Height of inst. 4 ft. 3 ins. Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Pin Bitten Rd	00	00	00	00	00	00	00	00	00					00	00	00			
hut Kent	44	50	39	50	41	50	41	50	45					44	50	42			
hut Venus	85	27	10	27	15	27	14	27	17					85	27	16	4		
Apple Hill	307	28	02	28	00	28	03	28	13					307	28	05			
hut William	324	56	28	56	24	56	23	56	29					324	56	26			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Pin Bitten Rd									
hut Kent	+01	42	07	42	42	+01	42	25	
hut Venus	+01	53	26	54	30	+01	53	58	
Apple Hill									
hut William									

BOOK NO. 5

Observer Lt. G. Thomas Abstracted by G. Thomas

Booker Mrs. E. G. Stride Checked by E. G. Stride

(30)

31

ABSTRACT OF ANGLES.

Station SADDLEBACK EAST

Date 28/4/43 Time 14.00 HRS. Weather FAIR Inst. TAVI. B.108 Height of inst. 4' 3" Height of Beacon 4'9"

Horizontal Angles

Station	Face. R			F. L.		F. L.		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MT. MISERY (R.O.)	00	00	00	00	00	00	00	00	00					00	00	00			
12 O'CLOCK MT.	90	15	42	15	34	15	27	15	31					90	15	33			
MURRELL RIVER △	120	53	43	53	34	53	31	53	33					120	53	38			
MT. WILLIAM	168	58	11	58	18	58	17	58	08					168	58	14			
2 SISTERS	208	06	14	06	18	06	09	06	15					208	06	14			
SADDLEBACK WEST	275	16	00	16	08	16	13	16	04					275	16	06			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
MT. MISERY (R.O.)	+00	21	15	22	02	+00	21	39
12 O'CLOCK MT.								
MURRELL RIVER △	-01	16	47	16	15	-01	16	31
MT. WILLIAM								
2 SISTERS								
SADDLEBACK WEST	+01	06	59	07	30	+01	07	15

Sketch of Beacon

BOOK NO. 3

Observer G. L. B. Thomas L/Cpl. RE. Abstracted by E. G. Struoz Spr. R.E.

Booker E. G. Struoz. Spr. RE Checked by G. L. B. Thomas.

31

(32)

RESECTION

ABSTRACT OF ANGLES.

Station CHARLES POINT.

Date 27-4-43 Time P.M. Weather WINDY & STORMY Inst. TAVI. B.61 Height of inst. ~~3'-6"~~ 4' 8½" Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CAMOPUS	00	00	00	00	00	00	00	00	00					00	00	00			
CORTLEY	52	17	50	17	58	17	48	18	00					52	17	54			
TWELVE O'CLOCK	101	48	55	48	52	48	53	49	04					101	48	56			
MOUNT LOW	111	57	35	57	48	57	35	57	50					111	57	42			
MENGARY LT. HO	240	55	10	55	13	55	14	55	08					240	55	11			
CAPE PENSROKE	297	57	20	57	22	57	18	57	20					297	57	20			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CAMOPUS	+ 00 89	05	46	04	55	+ 00	05	21	TOP OF FLAG.
CORTLEY									
TWELVE O'CLOCK	+ 01	41	55	40	40	+ 01	41	18	-- -- --
MOUNT LOW	+ 02	44	25	43	00	+ 02	43	42	-- -- --
MENGARY LT. HO									
CAPE PENSROKE									

(32)

OBS. BOOK No. 6.

Observer CPL. D.A. HARRY Abstracted by ~~D.A.Harry~~

Booker SPR. E. JACKSON Checked by ~~E. Jackson Sgt.~~ L.E.

HEIGHT OF FLAG NOT REQUIRED AS BEACON NOT YET INSERTED.

(33)

RESECTION

ABSTRACT OF ANGLES.

Station LOWERY RIDGE.

Date 2-5-41 Time A.M. Weather CLEAR. NO WIND!! Inst. Theo. B.61 Height of inst. 4' 8" Height of Beacon on

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT LOW	00	00	00	00	00	00	00	00	00					00	00	00			
MENGEARY LT. HO.	70	07	00	~~06~~ 06	~~59~~ 59	07	10	07	04					70	07	03			
CAPE PERRUCE LT. HO.	97	47	31	47	31	47	34	47	35					97	47	33			
CORTLEY HILL	206	07	21	07	27	07	29	07	22					206	07	25			
TABLETOP MOUNT	235	17	41	17	42	17	51	17	40					235	17	44			
MT. HOLLINGSLIN *	253	23	50	23	55	23	59	~~24~~ ~~15~~		*				253	23	54			
TWELVE O'CLOCK.	318	42	30	42	27	42	39	42	36					318	42	33			
SAPPERS HILL.																			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT LOW	+ 03	25	00	24	04	+ 03	24	32	TOP OF FLAG.
MENGEARY LT. HO.									
CAPE PERRUCE LT. HO.									
CORTLEY HILL	- 00	14	50	15	36	- 00	15	13	-- --
TABLETOP MOUNT									
MT. HOLLINGSLIN *									
TWELVE O'CLOCK.	+ 02	30	50	30	10	+ 02	30	30	-- --
SAPPERS HILL.	+ 00	41	10	40	10	+ 00	40	40	-- --

* TREAT OBS TO MCLAUGHLIN WITH CAUTION. NOT POSITIVE THAT OBJECT OBSERVED WAS FLAG. MAY BE A WHITE ROCK. (NO WIND WHILST OBSERVING) D.A.H.

(33)

Observer CPL. D.A. HARRY. Abstracted by D.A. Harry.

Booker SPR. E. JACKSON Checked by E. Jackson.

Booker [illegible] Checked by [illegible]

HEIGHT OF FLAG NOT ADJUSTED AS BLOCK NOT YET INSERTED

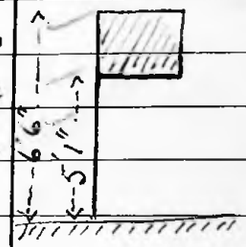
(34)

ABSTRACT OF ANGLES.

Station NORTH BASIN. (LAWRENCE COVE).

Date 4th May. 43. Time — Weather Wet & fair. Inst. Tabi B.167 Height of inst. 4' 7½" Height of Beacon See Sketch.

Station	Horizontal Angles: Face. L			F. R		F. R		F. L		F.		F.		Mean Horizontal Angles: Observed			Reduced to Centre			Vertical Angles: Face R L			F. R		Mean V. A's			Sketch of Beacon
Mt Harriet. R.O	00	00	00	00	00	00	00	00	00					00	00	00				02	14	25	14	35	+ 02	14	30	
RABBIT ROCKS B	53	23	09	23	09	23	04	23	13					53	23	09				00	19	30	19	38	+ 00	19	34	
High Rock. B&D.	229	48	36	48	35	49	00	48	32					229	48	41				00	51	00	50	44	+ 00	50	52	
Distance to High Rock =										2,850 ft																		



Observer [illegible] Abstracted by [illegible]

Booker [illegible] Checked by [illegible]

(34)

35

ABSTRACT OF ANGLES.

Station Seal Point.

Date 5/may/43. Time 11.45 am. Weather Good Inst. B. 167. Height of inst. 4' 3" Height of Beacon See Sketch.

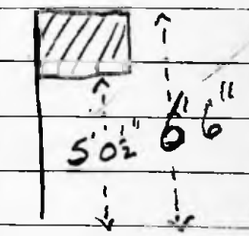
Horizontal Angles

Station	Face. L			F. R		F. L		F. R		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
Sappers Hill R.O	00	00	00	00	00	00	00	00	00							00	00	00			
Canopus.	63	07	34	07	37	07	28	07	38							63	07	34			
Elija Cove.	73	19	36	19	43	19	35	19	37							73	19	38			
Penguin	281	24	55	24	57	24	53	24	52							281	24	54			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			
Sappers Hill R.O	01 / 01	36 / 36	16 / 50	35 / 36	00 / 10	+	01	36	04
Canopus.	00	04	05	02	42	+	00	03	23
Elija Cove.	00 / 00	06 / 06	26 / 01	07 / 07	50 / 20	−	00	06	54
Penguin	00 / 00	10 / 10	22 / 20	09 / 09	23 / 12	+	00	09	49

Sketch of Beacon

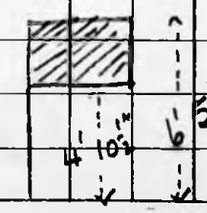


PENGUIN. Height of Instrument = 4'.7". Inst. B. 167. See Sketch for Beacon

Station	Face. L			F. R		F. L		F. R		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
Seal Pt.	00	00	00	00	00	00	00	00	00							00	00	00			
Cannon Rocks.	181	04	32	04	38	04	29	04	24												
Mt. William.	242	41	22	41	20	41	18	41	20												
Sappers Hill.	288	11	57	11	46	11	54	11	49												

Recorded

Station	Face R.			F. L.		Mean V. A's			
Seal Pt.	00	10	10	09	35	−			
Cannon Rocks.	00	17	30	16	53	+			
Mt. William.	02	33	10	32	40	+			
Sappers Hill.	01	27	33	26	54	+			



Observer [signature] Abstracted by [signature]

Booker [signature] Checked by [signature]

35

36

ABSTRACT OF ANGLES.

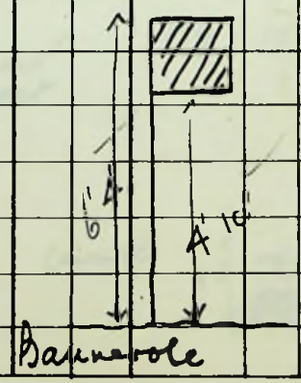
Station (CANNON ROCKS. (Bannerole)

Date May 7th 1943. Time 14 hrs. Weather wet & windy Inst. B.167. Height of inst. 3' 9" Height of Beacon See Sketch.

Horizontal Angles

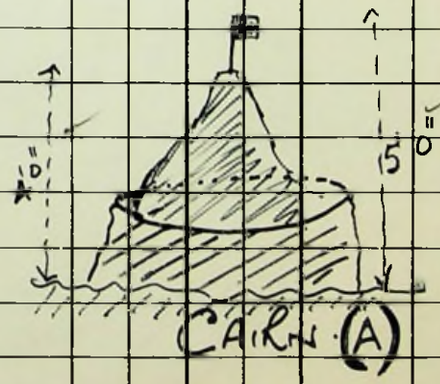
Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Rabbit Rocks Ro	00	00	00	00	00	00	00	00	00					00	00	00			
Cairn / Pole (B)	01	28	14	28	14	—		—						01	28	14			
Cairn. (C)	31	46	28	46	26	—		—						31	46	27			
Mt Hamnett	89	05	19	05	12	05	08	05	08					89	05	12			
Mt William	143	31	18	31	23	31	16	31	21					143	31	19			
Dead Cow Pole.	192	22	03	22	13	—		—						192	22	08			
Penguin.	197	27	38	27	42	27	37	27	43					197	27	40			
Cairn (A)	357	52	29	52	32	—		—						357	52	30			

Distance to Cairn. 505 feet



Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Rabbit Rocks Ro	00	13	30	13	20	+ 00	13	25	
Cairn / Pole (B)	00	13	50	13	40	+ 00	13	45	
Cairn. (C)	00	41	50	42	00	− 00	41	55	
Mt Hamnett	02	55	55	55	35	+ 02	55	45	
Mt William	02	02	35	02	30	+ 02	02	38	
Dead Cow Pole.	00	25	04	26	00	− 00	25	32	
Penguin.	00	17	55	18	59	− 00	18	27	
Cairn (A)	00	13	50	13	30	− 00	13	40	



Observer G. Morgan. Abstracted by G. Morgan.

Booker G. Heart Checked by G. Stuart.

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37

ABSTRACT OF ANGLES.

Station RABBIT ROCKS.

Date 8 May 43 Time am. Weather fine & windy Inst. B.167 Height of inst. 4' 9" Height of Beacon Sea Stick.

Horizontal Angles

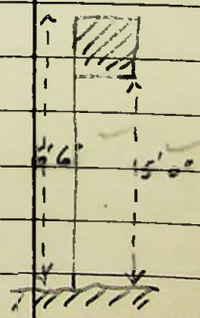
Station	Face. L			F. R		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cannon Rocks. Lo	00	00	00	00	00	00	00	00	00					00	00	00			
Work Basin	203	37	57	37	52	38	00	38	01					203	37	58			
Mt Hamilton	294	23	35	23	36	23	34	23	34					294	23	35			
Pole. Cairn (B)	304	04	51	04	35	—		—						304	04	43			
						Distance to Cairn (B)								212 feet					
RABBIT ROCKS CAIRN. (B) Pole.										Height of Inst.				4' 3"					
Cannon Rocks Lo	00	00	00	00	00									00	00	00			
Cairn (C)	312	29	36	29	40									312	29	38			
Centre	139	10	43	10	14									139	10	29			
	Distance to Centre =									8.6½ feet									

CAIRN. (B) 6'0"

Cairn (C) 8'0" 3'0"

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Cannon Rocks. Lo	00	12	21	12	42	− 00	12	32	
Work Basin	00	19	15	20	18	− 00	19	47	
Mt Hamilton	02	34	50	33	18	+ 02	34	04	
Pole. Cairn (B)	00	31	30	31	00	+ 00	31	15	



Observer Fr. Morpn. Abstracted by Fr. Morpn.

Booker Fr. Morpn. Checked by Geo Stewart

37

38

ABSTRACT OF ANGLES.

SATELLITE STATION.

Station Dead Cow. Pole.

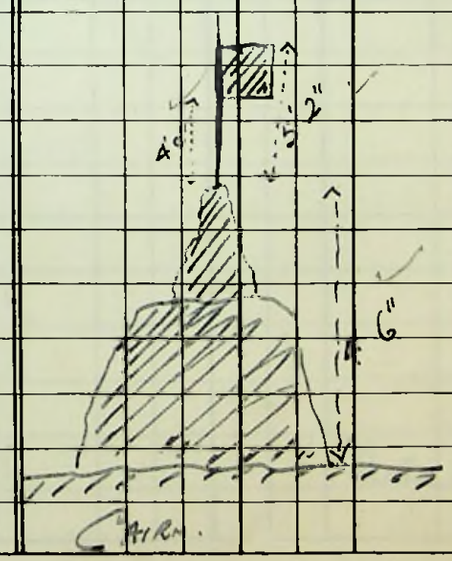
Date May 7th 43. Time 10.45 hrs. Weather fine Inst. B.167. Height of inst. 4' 7" Height of Beacon See Sketch.

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cannon Rocks No.	00	00	00	00	00	00	00	00	00					00	00	00			
Mr Harrett	47	42	50	42	51	42	46	42	47					47	42	49			
Mr William	97	51	47	51	46	51	56	51	48					97	51	49			
Supper Hill	138	58	35	58	44	58	46	58	40					138	58	41			
Penguin	191	01	09	01	09	01	12	01	09					191	01	09			
Pole (Centre)	180	23	47	26	25	—		—						180	25 ~~23~~	06			
					Destroyed					Pole		5.575	feet.		25	06			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Cannon Rocks No.	00	23	20	25	00	+ 00	24	10	
Mr Harrett	—			—		—			
Mr William	02 ~~89~~	58 ~~64~~	20 ~~49~~	58	55	+ 02	58	36	
Supper Hill	01	05	25	05	54	+ 01	05	40	
Penguin	00	09	00	09	20	− 00	09	10	



Observer Sgn. Morgan. Abstracted by Sgn. Morgan.

Booker Sgn. Teale Checked by J. Stewart.

38

39

ABSTRACT OF ANGLES.

Station PENGUIN.

Date 5 May 43. Time pm. Weather Good. Inst. B.67. Height of inst. 4' 7½" Height of Beacon —

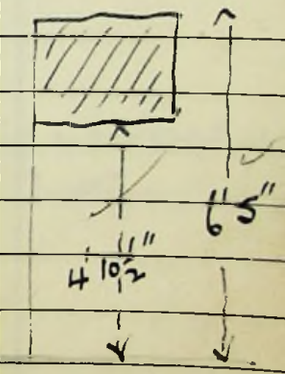
Horizontal Angles

Station	Face. L			F. R		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Seal Pt.	00	00	00	00	00	00	00	00	00					00	00	00			
Cannon Rocks.	181	04	32	04	38	04	29	04	24					181	04	31			
Mt William.	242	41	22	41	20	41	18	41	20					242	41	20			
Sappers. Hill.	288	11	57	11	46	11	54	11	49					288	11	51			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			
Seal Pt.	00	10	10	09	35	—	00	09	53
Cannon Rocks.	00	17	30	16	53	+	00	17	12
Mt William.	02	33	10	32	40	+	02	32	55
Sappers. Hill.	01	27	33	26	54	+	01	27	14

Sketch of Beacon



Sketch of Bamerole.

Observer Spr. Morfan Abstracted by Spr Morfan.

Booker Spr. Hewe. Checked by Spr Stewart.

39

(40)

ABSTRACT OF ANGLES.

Station TWO SISTERS. (NE)

Date 10 May 43 Time Pm. Weather Showery Inst. B 167 Height of inst. 5' 2½" Height of Beacon —

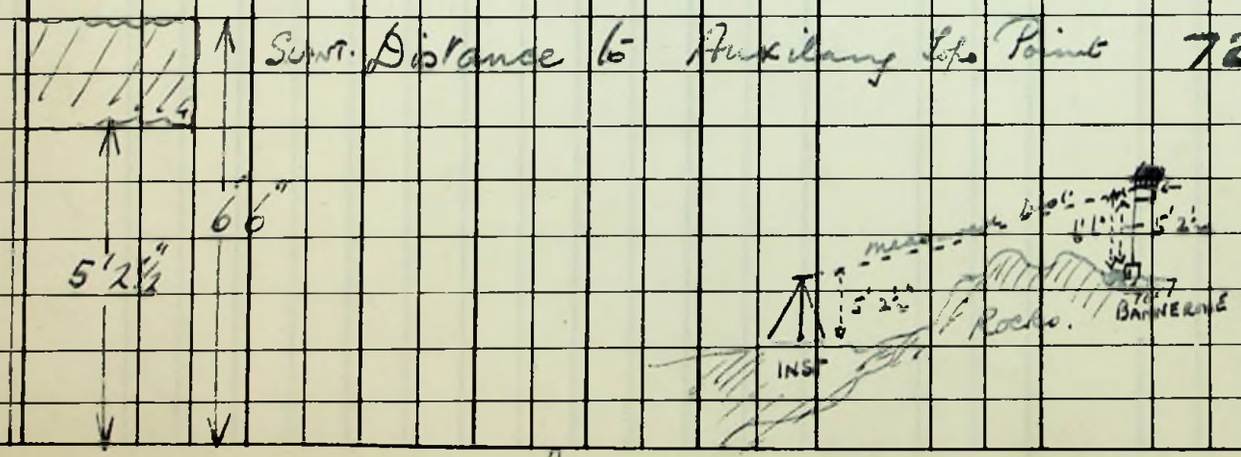
Horizontal Angles

Station	Face. R.			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre
Saddleback West Pt.	00	00	00	00	00	00	00	00	00					00	00	00	
Mt Misery	05	09	43	09	50	—		—						05	09	46	✓
Mt McLoughlin	43	58	33	58	41	58	40	58	32					43	58	37	✓
Mt Williams	103	12	19	12	19	12	30	12	16					103	12	21	✓
Mt Harriett	159	37	09	37	13	37	06	37	03					159	37	08	✓
North Basin	196	09	48	09	50	09	54	10	02					196	09	53	✓
Mt Kent	274	09	03	09	04	09	10	09	08					274	09	06	✓
Mt Vernet	311	08	11	08	04	08	02	08	06					311	08	06	✓
Two Sisters Aux Pt.	255	01	40	01	34	—		—						255	01	37	✓

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
Saddleback West Pt.	—			—		—		
Mt Misery	—			—		—		
Mt McLoughlin	02	11	15	11	12	− 02	11	14
Mt Williams	00	37	33	37	46	− 00	37	40
Mt Harriett	00	25	43	25	46	− 00	25	47
North Basin	01	54	42	54	50	− 01	54	46
Mt Kent	01	08	08	08	00	+ 01	08	04
Mt Vernet	00	32	48	32	42	+ 00	32	45
Two Sisters Aux Pt.	03	38	22	39	20	+ 03	38	51

Sketch of Beacon



Vert taken to Aux Pt is a point on Bannerone above its block, same height as instrument

Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker Sgt. Steele Checked by Sgt. Street

(40)

(41)

ABSTRACT OF ANGLES.

Station Mr. McLOOSHLIN.

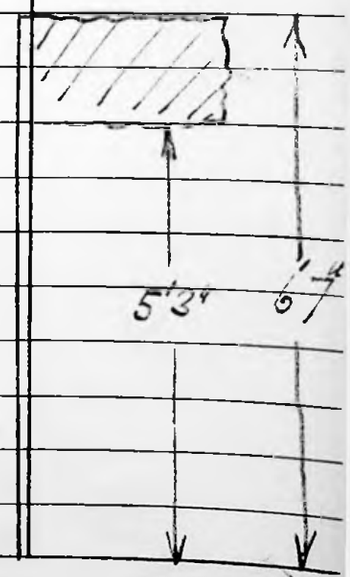
Date 10 May 43. Time am. Weather V. windy Inst. B167 Height of inst. 4' 2" Height of Beacon

Horizontal Angles

Station	Face. L			F. R		F. R		F. L.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Mr Misenghe	00	00	00	00	00	00	00	00	00					00	00	00			
Sappis Hill	120	36	11	36	03									120	36	07			
Mt William	145	54	46	54	41	54	39	54	46					145	54	43			
Mt. Harriett	204	42	09	42	13	42	18	42	09					204	42	12			
Two Sisters NE.	233	15	14	15	12	15	19	15	23					233	15	17			
Mt. Vernet.	301	52	17	52	10	52	10	52	16					301	52	13			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Mr Misenghe	—			—		—			
Sappis Hill	—			—		—			
Mt William	00	40	52	38	55	+ 00	39	54	F.L.
Mt. Harriett	01	11	08	10	45	+ 01	10	57	F.L.
Two Sisters NE.	02	11	40	10	10	+ 02	10	55	F.L.
Mt. Vernet.									



Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker Sgt. Stewart Checked by Sgt. Stewart

(41)

A2 42

ABSTRACT OF ANGLES.

Station Reservoir Station 20 (Cambria)

Date 10. 5. 43 Time 12.00 hrs Weather Clear Inst. Cavi B 158 Height of inst. 4ft 5 ins. Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Int. Lon Rs.	00	00	00	00	00	00	00	00	00					00	00	00			
Wenglley Lr.	66	51	37	51	37	51	41	51	41					66	51	39	✓		
Cape Penwhe"	101	11	01	11	03	11	10	11	08					101	11	05	✓		
Gaphrs hill	258	53	19	53	15	53	22	53	23					258	53	20	✓		
Int. Ashtis	280	35	02	35	01	35	09	35	04					280	35	04	✓		
Int. Mishly.	319	35	23	35	17	35	21	35	23					319	35	21	✓		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Int. Lon Rs.	+ 02	05	17	05	50	+ 02	05	34	✓
Wenglley Lr.	- 00	07	12	06	25	- 00	06	49	✓
Cape Penwhe"	- 00	07	32	06	53	- 00	07	12	✓
Gaphrs hill	+ 00	55	52	56	52	+ 00	56	22	✓
Int. Ashtis									
Int. Mishly.									

Top of Platform

Observer Cpl. G. Jones Abstracted by G. Jones.

Booker G. Jones Checked by H/Sgt. Lockwood.

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(43)

ABSTRACT OF ANGLES.

Station Mt William.

Date 14th Aug 42 Time 6am. Weather Very windy. Inst. B.167 Height of inst. 3' 7" Height of Beacon —

Horizontal Angles

Station	Face. L			F. R		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
TWO SISTERS NE.	00	00	00	00	00	00	00	00	00					00	00	00			
MT McLOUGHLIN.	33	25	37	25	28	25	35	25	30					33	25	33	✓		
FM. HSE CHY.	185	59	19	59	08	—		—						185	59	13	✓		
PENGUIN PC.	215	27	03	27	03	27	05	27	06					215	27	04	✓		
DEAD COW POLE	246	35	13	35	12	35	07	35	15					246	35	12	✓		
CANNON ROCKS	279	54	04	54	07	54	03	54	07					279	54	05	✓		
MT HARRIET.	333	26	20	26	16	26	19	26	22					333	26	18	✓		
SAPPER HILL.														154	49	14.	✓		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
TWO SISTERS NE.									
MT McLOUGHLIN.	00	41	50	41	10	− 00	41	20	
FM. HSE CHY.									
PENGUIN PC.	02	33	54	33	27	− 02	33	40	
DEAD COW POLE	02	59	25	59	50	− 02	59	37	
CANNON ROCKS	02	03	00	02	37	− 02	02	49	
MT HARRIET.	00	30	36	30	12	+ 00	30	24	
SAPPER HILL.									

Observer Jor. Morgan. Abstracted by Jor Morgan.

Booker Jor. Stead. Checked by Geo. Stewart

(43)

(44)

ABSTRACT OF ANGLES.

Station SHIPEK HILL.

Date 14th May 43. Time Pm. Weather Cloudy Inst. B.167. Height of inst. 4' 8" Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
CORTLEY.	00	00	00	00	00	00	00	00	00							00	00	00			
CANOPUS	—			—		—		—								41	20	47			
ELIZA COVE	69	12	54'	12	53'	12	56'	12	50'							69	12	53	✓		
SEAL POINT	127	54	37'	54	34'	54	41'	54	35'							127	54	37	✓		
PENGUIN	157	31	15	31	12'	31	11'	31	09' 12"							157	31	12	✓		
MT WILLIAM.	—					—				—						231	22	40	✓		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
CORTLEY.			—						
CANOPUS			—						
ELIZA COVE	01	20	44'	19	55'	- 01	20	20	
SEAL POINT	01	37	40'	36	30'	- 01	37	05	
PENGUIN	01	29	22'	28	20'	- 01	28	51	

Observer Spr Morfett. Abstracted by Spr. Morfett

Booker Spr. Stewart. Checked by Sgt. Stewart.

(44)

45

ABSTRACT OF ANGLES.

Station Mt. Kennedy

Date 14th May Time a.m. Weather fair Inst. R167 Height of inst. 4' 6" Height of Beacon —

Horizontal Angles

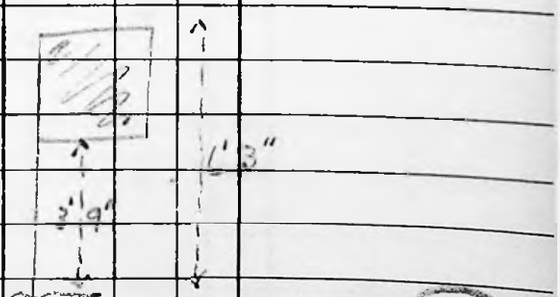
Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Two Sisters Co.	00	00	00	00	00	00	00	00	00					00	00	00			
Mt McLoughlin	35	48	15	43 30		48	20	48	30					35	48	24			
Mt William	97	01	36	01	45	01	32	01	36					97	01	37			
Bear Cow. Pole	140	02	34	02	27	—		—						140	02	30			
Cannon Rocks.	169	03	24	03	24	03	19	03	18					169	03	21			
Sabine Rocks	194	21	43	21	48	21	43	21	39					194	21	43			
Mt Shasta Sm. Cly.	199	44	28	44	08	44	21	44	08					199	44	16			
North Basin	230	12	55	12	59	12	54	12	55					230	12	56			
Mt Kenn.	312	29	06	28	53	28	53	28	55					312	28	55			
Cairn.	280	19	05	18	55	—		—						280	19	00			

Distance to Cairn = 84 feet

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
Two Sisters Co.	+ 00	26	13	26	40	+ 00	26	27
Mt McLoughlin	− 01	11	40	12	45	− 01	12	13
Mt William	− 00	30	05	31	54	− 00	31	00
Bear Cow. Pole	—			—				
Cannon Rocks.	− 02	56	05	56	08	− 02	56	06
Sabine Rocks	− 02	34	52	34	55	− 02	34	54
Mt Shasta Sm. Cly.	—			—				
North Basin	− 02	16	30	17	00	− 02	16	45
Mt Kenn.	+ 01	03	27	02	27	+ 01	02	57
Cairn.	+ 10	44	52	45	52	+ 10	45	22

Sketch of Beacon



add 4" to height of Bannerole for Verts from North Basin.

Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker Sgt. Stearns. Checked by Sgt. H. Stuart

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46

ABSTRACT OF ANGLES.

Station 12 o'CLOCK AUXILIARY POINT.

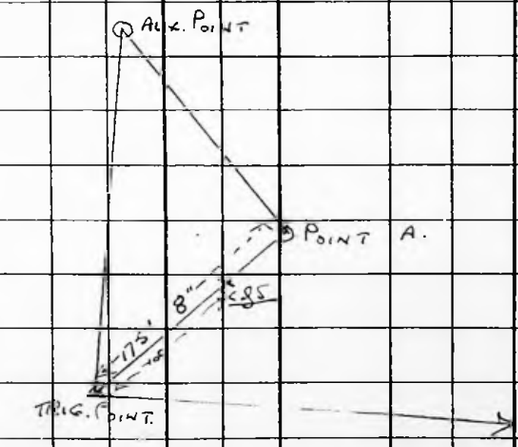
Date 16-5-43 Time A.M. Weather FINE !! Inst. TAVI. B.161. Height of inst. 3'3" Height of Beacon

TOP OF FLAG. 6'5"
BOTTOM " " 5'0"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT LOW	00	00	00	00	00	00	00	00	00					00	00	00			
BUZZARDS	282	58	37	58	49	58	47	58	40					282	58	43			
SEA LION	329	19	46	19	49	19	55	19	51					329	19	50			
~~POINT "A"~~	~~35~~	05	17	05	~~27~~									~~35~~	05	22			
~~12 O'CLOCK & POINT.~~																			
POINT "A"	00	00	00	00	00									00	00	00			
12 O'CLOCK & POINT	35	05	17	05	27									35	05	22			
						AT		POINT		"A"									
12 O'CLOCK & POINT	00	00	00	00	00									00	00	00			
12 O'CLOCK AUX. POINT	106	55	~~45~~ 53	56	13									106	56	03			
Vertical angle & change of slope						-03	24	55											
					12	O'CLOCK			&	POINT.									
MOUNT LOW	00	00	00	00	00									00	00	00			
12 O'CLOCK AUX. PT.	262	07	~~05~~ 10	07	16									262	07	13			
POINT "A"	300	05	36	05	~~05~~ 37									300	05	36			
Vertical angle & change of slope						-02	56	35											
Distance & change of slope from					&	Lower						100'	00"						
Distance from & to Point					A							175'	8"						

Face R.			F. L.			Mean V. A's			Sketch of Beacon
+	00	09	30	08	20	+	00	08	55
-	05	12	25	13	24	-	05	12	55
-	03	~~33~~ 2	30	24	40	-	03	24	05



MOUNT LOW.

OBS. BOOK. No. 8.

Observer CPL. D.A. HARRY Abstracted by D. Harry

Booker SPR. E. STRIDE Checked by E. G. Stride

47

ABSTRACT OF ANGLES.

Station Mount Low Battery

Date 15.5.43 Time P.M. Weather VERY WINDY Inst. TAYL. B.161 Height of inst. 4' 2" Height of Beacon

Top of Flag 6'5" Bottom " 4'3"

Horizontal Angles

Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
SEA LION	00	00	00	00	00	00	00	00	00					00	00	00				- 02	12	04	12	43	- 02	12	24	TOP OF FLAG.
PEAT RIDGE	60	28	03	29	09	28	10	27	57					60	28	05				- 03	02	08	02	58	- 03	02	33	" "
TREBURNS.	134	06	21	06	27 (9)	06	24	06	20					134	06	22 (4)				- 02	45	30	46	20	- 02	45	55	" "
COUCHON ISLAND	48	05	44	05	35	05	45	05	45					48	05	42				- 01	59	30	00 (02)	25	- .01	59	58	" "
KIDNEY ISLAND	106	08	34	08	29	08	43	08	35					106	08	36				- 01	43	40	44	40	- 01	44	10	" "
MENGAREY LT. HO.	132	26	35	26	49	26	40	26	46					132	26	42				- 01	15	15	16	50	- 01	16	03	TOP OF LIGHTHOUSE

OBS. BOOK No. 8.

Observer CPL. D.A. HARRY Abstracted by [illegible]

Booker SPR. E. STRIDE Checked by E.G. Stride.

47

48

ABSTRACT OF ANGLES.

Station Mount how Battery

Date 10.5.43 Time A.M. Weather Fine !! Inst. Tayl. B.G. Height of inst. 4' 7" Height of Beacon

Horizontal Angles

Ht. Top of Flag — 6' 5"
" Bottom " — 4' 8"

Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Cape Pembroke	00	00	00	00	00									00	00	00				- 00	52	20	53	08	From R. Finder. - 00	52	44	Top of white.
Lonely Ridge (Centre)	87	47	30	47	42									87	47	36												
South Gunpit	106	00	—	00	—									106	00	00												
4" Gun	132	35	-	133 28	—									133	01	30												
North Gunpit (Centre)	163	25	—	25	—									163	25	00												
Rangefinder	307	55	—	55	—									307	55	00												
Mengary Lt. Ho.																				- 00	13	30	14	25	From R.Finder. - 01	13	57	Top of L. House.

N.&S. Guns not yet in position. Centre of pits co-ordinated.

Ranges required to Cape Pembroke + Mengary Lt. House.

Distance from A to		
South Gunpit	72'	00"
North "	94'	00"
4" Gun "	26'	6"
R.Finder "	50'	8"

OBS. Book. 1506.

Observer Cpl. D.A. Harry Abstracted by D.A.Harry

Booker Spr. E. Jackson Checked by E.G. Strutt

48

ABSTRACT OF ANGLES.

Station MOUNT LOW.

Date 16-5-43 Time A.M. Weather FINE !! Inst. TAVI. B161 Height of inst. 4'0" Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
12 o'clock Axis Point	00	00	00	00	00	00	00	00	00					00	00	00			
BUZZARDS	42	10	18	10	08	10	18	10	15					42	10	15			
SEA LION	95	27	16	27	13	27	23	27	26					95	27	20			
PEAT RIDGE	150	47	03	47	08	47	08	47	11					150	47	08			
COUCHON ISLAND	128	52	07	52	02	52	12	52	13					128	52	08			
~~HENGARE/ LT. HO.~~																			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
12 o'clock Axis Point	-00	07	30	08	40	-00	08	05	TOP OF FLAG
BUZZARDS	-03	43	10	44	30	-03	43	50	— " —
SEA LION	-06	48	50	49	55	-06	49	22	— " —
PEAT RIDGE	-04	14	10	14	55	-04	14	33	— " —
COUCHON ISLAND	-03	25	10	26	18	-03	25	44	— " —

OBS. BOOK. No. 8.

Observer CPL. D.A. HARRY. Abstracted by [signature]

Booker SPR. E. STRIDE. Checked by E. G. Stride

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ABSTRACT OF ANGLES.

Station BUZZARDS.

Date 14.5.43 Time A.M. Weather WINDY Inst. TAVI. B161 Height of inst. 4' 0" Height of Beacon

6'6" TOP OF FLAG
4'7" BOTTOM -"-

Horizontal Angles

Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT LOW	00	00	00	00	00	00	00	00	00					00	00	00				+	03	45	20	44	00	+	03	44	40	TOP OF FLAG
12 O'CLOCK AUX. POINT	~~60~~	~~48~~	~~05~~	~~48~~	~~06~~	~~48~~	~~06~~	~~48~~	~~08~~					60	~~48~~	~~06~~				+	05	15	30	14	50	+	05	15	10	-"- -"-
SEA LION	325	34	36	34	23	34	28	34	28					325	34	29				-	00	09	30	10	40	-	00	10	05	-"- -"-
12 O'CLOCK AUX. POINT	60	48	28	48	26	48	22	48	24					60	48	25														

OBS. BOOK. No. 8.

Observer CPL. D.A. HARRY Abstracted by D Harry

Booker SPR. E. STRIDE Checked by E. G. Stride

50

ABSTRACT OF ANGLES.

Station SEA LION

Date 16-5-43 Time P.M. Weather FINE Inst. TAVI. B.61 Height of inst. 4' 6" Height of Beacon —

TOP OF FLAG 5' 10"
BOTTOM — 4' 6"

Horizontal Angles

Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT LOW	00	00	00	00	00	00	00	00	00	00	00			00	00	00				+ 06	50	55	49	40	+ 06	50	15	TOP OF FLAG
12 o'CLOCK AUX. PT.	53	52	15	52	27	52	20	52	21	52	10			53	52	19				+ 03	24	20	22	30	+ 03	23	25	— " —
BUZZARDS	92	17	14	17	30	17	12	17	26	17	16			92	17	20				+ 00	11	10	10	10	+ 00	10	40	— " —
PEAT RIDGE	273	35	55	36	08	36	00	36	06	36	01			273	36	02				- 00	01	05	00	30	- 00	00	47	— " —
MOUNT LOW BATTERY	318	04	55	05	10	05	10	05	10	05	01			318	05 ~~04~~	05 ~~02~~				+ 02	13	25	12	05	+ 02	12	45	— " —
COUCHON ISLAND	235	55	52	56	08	56	08	56	18	56	06			235	56 ~~55~~	06 ~~54~~				- 00	22	30	23	24	- 00	22	57	— " —

OBS. BOOK No. 8.

Observer CPL. D. A. HARRY Abstracted by D. Adams

Booker SGT. E. STRIDE Checked by E. G. Stride

ABSTRACT OF ANGLES.

Station PEAT RIDGE

Date 17-5-43 Time A.M. Weather STORMY Inst. TAVI. R.161 Height of inst. 4'6" Height of Beacon

TOP OF FLAG. 6'1"
BOTTOM -"- 4'10"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT LOW BATTERY	00	00	00	00	00	00	00	00	00					00	00	00			
MOUNT LOW	36	46	10	46	30	46	16	46	05					36	46	10			
SEA LION	75	02	30	02	27	02	26	02	37					75	02	30			
COUCHON ISLAND	152	50	31	50	32	50	21	50	30					152	50	28			
KIDNEY ISLAND	251	08	35	08	35	08	36	08	35					251	08	35			
TREURNS.	300	45	24	45	26	45	31	45	33					300	45	30			
MENGAREY LT. HO.																			
CAPE PEMBROKE LT. H.																			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT LOW BATTERY	+03	03	40	02	30	+03	03	05	TOP OF FLAG.
MOUNT LOW	+04	15	40	15	30	+04	15	35	-"-
SEA LION	-00	00	10	01	05	-00	00	37	-"-
COUCHON ISLAND	-00	35	30	36	00	-00	35	45	-"-
KIDNEY ISLAND	-00	26	46	27	45	-00	27	15	-"-
TREURNS.	-00	08	25	09	50	-00	09	08	-"-
MENGAREY LT. HO.	-00	12	20	12	00	-00	12	10	TOP OF LT. HO.
CAPE PEMBROKE LT. H.	-00	10	15	11	05	-00	10	40	TOP OF WHITE

OBS. BOOK No 8.

Observer CPL. D.A. HARR Abstracted by [illegible]

Booker SPR. E. STRIDE Checked by E.G. Stride

53

ABSTRACT OF ANGLES.

Station TREBURNS.

Date 17.5.43 Time A.M. Weather STORMY Inst. TAVI. R.O.I. Height of inst. 4'2" Height of Beacon

TOP OF FLAG 6'2"
BOTTOM -- 4'4"

Horizontal Angles

Vertical Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT LOW BATTERY	00	00	00	00	00	00	00	00	00					00	00	00				+ 02	47	35	46	40	+ 02	47	08	TOP OF FLAG.
PEAT RIDGE	47	07	06	07	2	07	07	06	58					47	07	05 4				+ 00	09	45	09	30	+ 00	09	37	—
KIDNEY ISLAND	126	44	30	44	30	44	30	44	36					126	44	31				- 00	23	05	24	30	- 00	23	48	—
MENGAREY LT HO	177	10	38	10	35	10	42	10	39					177	10	38				- 00	12	25	12	10	- 00	12	17	TOP OF LT HO
																				- ~~00~~	~~23~~	~~05~~	~~24~~	30				

OBS. BOOK No 8

Observer CPL. D.A. HARRY Abstracted by D.A. Harry

Booker SPR. E. STRIDE Checked by E.G. Stride

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ABSTRACT OF ANGLES.

Station ELIZA COVE

Date 18/5/43 Time 10-30 hrs. Weather Fair Inst. B 167 Height of inst. 4' 9" Height of Beacon See Sketch

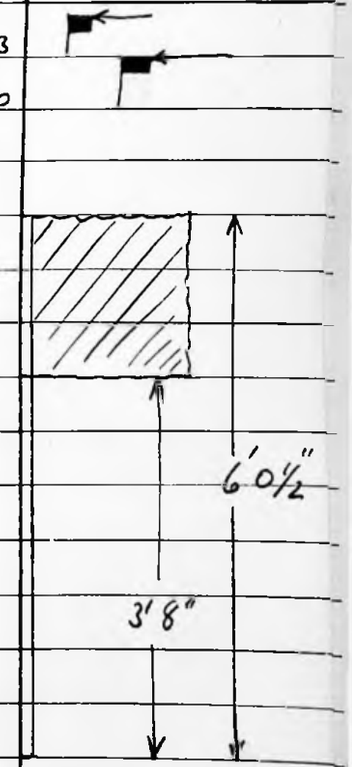
Horizontal Angles

Station	Face. L			F. R		F. L		F. R		F. R		F.		Mean Horizontal Angles Observed			Mean Horizontal Angles Reduced to Centre		
Seal Point R.O	00	00	00											00	00	00			+
Sapper Hill	47	58	53	58	52	58	56	58	53	~~58~~	~~56~~			47	58	54			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
Seal Point R.O	+ 00	05	25	04	40	+ 00	05	03
Sapper Hill	+ 01	18	50	18	30	+ 01	18	40

Sketch of Beacon



BOOK II

Observer Spr. Stuart Abstracted by Spr Stuart

Booker Spr Stuart Checked by SGT. LOCKWOOD

54

55

ABSTRACT OF ANGLES.

Station CANOPUS TRIG POINT

Date 18/5/43 Time 01-00 Weather Fair Inst. 3" T1 B167 Height of inst. 3' 11" Height of Beacon —

Horizontal Angles

Vertical Angles

Station	Face. L			F. R		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Mount Low R.O	00	00	00											00	00	00												
Water Tower	286	56	39	56	29	56	38	56	30					286	56	34				+00	15	32	14	45	+00	15	09	

BOOK II

Observer Lyle Stuart Abstracted by Lyle Stuart

Booker Dvr Dobson Checked by Lyle Stuart U/SGT. LOCKWOOD.

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56

SATELLITE

ABSTRACT OF ANGLES.

Station MENGAREY LIGHT HOUSE

Date 20·5·43 Time A.M. Weather FINE !! Inst. TAYL. B167 Height of inst. 3'9" Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Mean Horizontal Angles Reduced to Centre		
MOUNT KOW	00	00	00	00	00	00	00	00	00					00	00	00			
COUCHON ISLE	32	15	34	15	42	15	33	15	30					32	15	35			
KIDNEY ISLE	46	15	35	15	30	15	33	15	27					46	15	31			
TREBURNS	357	36	02	35	53	36	01	35	57					357	35	58			
LEFT TANGENT	143	18	–	06	–									143	12	–			
RIGHT "	224	41	–	225 21	–									TO CENTRE → 225	01	–	184	06	30

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
MOUNT KOW								
COUCHON ISLE								
KIDNEY ISLE	– 00	06	45	06	55	– 00	06	50
TREBURNS	+ 00	12	50	12	52	+ 00	12	51
LEFT TANGENT								
RIGHT "								

Sketch of Beacon: TOP OF FLAG

DISTANCE TO CENTRE — 4' 10½"

BK. 8

Observer CPL. D. A. HARRY Abstracted by D. Harry

Booker DVR. T. E. EVANS Checked by A J Brown

56

57.

ABSTRACT OF ANGLES.

Station RINCON

Date 2/6/45 Time _____ Weather _____ Inst. B.167. Height of inst. 3' 11" Height of Beacon 6' 6"

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MT. 1340	00	00	00	00	00	00	00	00	00					00	00	00			
NORTH PUSHOVER	31	50	19	50	07	50 ~~49~~	18	50 ~~49~~	13					31	50	14			
SOUTH PUSHOVER	34	39	38	39	24	39	28	39	23					34	39	28			
WALL MT.	51	55	20	55	09	55	10	55	09					51	55	12			
NORTH BASIN	84	47	44	47	40	47	39	47	39					84	47	40			
BOLD POINT	121	05	35	05	38	05	33	05	34					121	05	35			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MT. 1340	+03	49	41	49	12	+03	49	27	
NORTH PUSHOVER	+02	20	07	20	10	+02	20	09	TOP OF CAIRN
SOUTH PUSHOVER	+02	15	50	15	40	+02	15	45	" " "
WALL MT.	+01	30	39	30	43	+01	30	41	
NORTH BASIN	-00	32	37	32	50	-00	32	44	
BOLD POINT	-00	55	02	55	17	-00	55	10	

BOOK 13.

Observer L/SGT. LOCKWOOD. Abstracted by L/SGT. LOCKWOOD.

Booker SPR. MORGAN Checked by S/R Morgan.

(58)

ABSTRACT OF ANGLES.

Station MOUNT KENT.

Date 4/6/43 Time — Weather ST. WIND. Inst. B.167 Height of inst. _____ Height of Beacon 5' 8"

Horizontal Angles

Station	Face. R.			F. L		F. L		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre
MT. VERNET	00	00	00	00	00	00	00	00	00					00	00	00	
EAST BLUFF	96	47	36	47	24	(CAIRN)								96	47	30	
TWO SISTERS N.E.	102	18	26	18	23	18	38	18	18					102	18	26	RE-OBSERVED. (NO. 65)
" " S.W.	108	22	43	22	44	(CAIRN)								108	22	44	
SOUTH PUSHOVER	165	01	57	01	49	(CAIRN)								165	01	53	
NORTH PUSHOVER	168	30	47	31	19	(CAIRN)								168	31	03	
MT. 1240	180	13	31	13	39	13	18	13	36					180	13	31	RE-OBSERVED (NO. 65)
MT. 1340	205	16	52	16	41	16	37	16	36					205	16	41	RE-OBSERVED (NO. 65)
MT. 1520	217 ~~208~~	53 ~~16~~	35 ~~15~~	53	36	(CAIRN)								217	53	36	
ESTANCIA CR.	331	02	58	03	01	(CAIRN)								331	03	00	
SARDINE CR.	354	56	13	56	14	(CAIRN)								354	56	14	
NEEDLE CR.	208	16	15	16	12	(CAIRN)								208	16	14	
MT. KENT (CAIRN)	253	17	06	18	13	DISTANCE				23 FEET.				253	17	40	

Vertical Angles

Station	Face R.	F. L.	Mean V. A's	Sketch of Beacon
MT. VERNET	NOTE:- FOR VERTS SEE ABS. NO. (65)			

BK. 13

Observer L/SGT. LOCKWOOD Abstracted by L/SGT. LOCKWOOD

Booker SPR. MORGAN Checked by [illegible]

59

ABSTRACT OF ANGLES.

Station WALL MOUNTAIN.

Date 8&13/6/43 Time _____ Weather _____ Inst. B 167 Height of inst. 2' 11" + 3' 01½" * Height of Beacon 5' 10"

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
MT. KENT	00	00	00	00	00	00	00	00	00							00	00	00			
EAST BLUFF	27	19	41	19	20	(CAIRN)										27	19	30			
TWO SISTERS S.W.	79	42	55	43	09	(CAIRN)										79	43	02			
TWO SISTERS N.E.	82	31	19	31	18	31	15	31	22							82	31	18			
MT. HARRIET AUX.	128	42	33	42	44	-	-	-	-							128	42	38			
NORTH BASIN	236	47	51	47	42	-	-	-	-							236	47	46			
RINCON	261	15	05	15	09	15	02	15	05							261	15	05			
MT. 1340	304	27	13	27	26	27	24	27	31							304	27	24			
MT. 1240	306	36	51	36	58	36	52	36	55							306	36	54			
KINGVIC	308	28	09	28	16	(CAIRN)										308	28	12			
MT. 1520	320	11	54	11	55	(CAIRN)										320	11	54			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MT. KENT	+01	34	25	33	55	+01	34	10 *	G.L.
EAST BLUFF	-01	51	48	51	49	-01	51	48 +	TOP
TWO SISTERS S.W.	+00	55	57	55	38	+00	55	48 +	TOP
TWO SISTERS N.E.	+00	28	50	28	10	+00	28	30 +	⊓←
MT. HARRIET AUX.	+00	19	02	19	07	+00	19	04 *	⊓←
NORTH BASIN	-	-	-	-	-	-	-	-	-
RINCON	-01	33	08	33	08	-01	33	08 +	⊓←
MT. 1340	+01	23	28	23	12	+01	23	20 *	⊓←
MT. 1240	+01	20	00	19	54	+01	19	57 +	⊓←
KINGVIC	-	-	-	-	-	-	-	-	
MT. 1520	-	-	-	-	-	-	-	-	

BK. 13.

Observer L/SGT. LOCKWOOD Abstracted by L/SGT. LOCKWOOD.

Booker L/SGT. LOCKWOOD SGT. MORGAN. Checked by SGT. MORGAN.

(60)

ABSTRACT OF ANGLES.

Station MT. HARRIET (△)

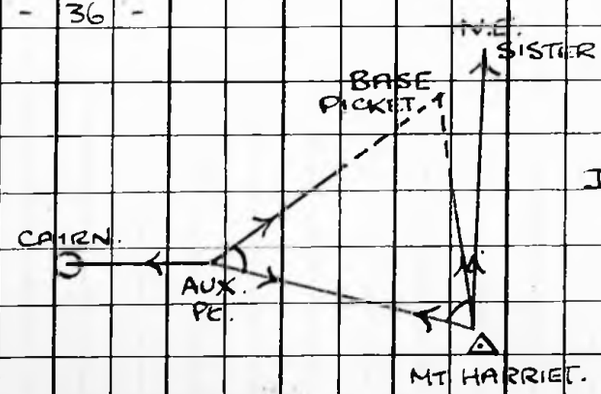
Date 8/6/43. Time – Weather ST. WIND. Inst. B 167. Height of inst. – Height of Beacon –

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
TWO SISTERS NE	00	00	00	00	00									00	00	00			
MT. HARRIET AUX.	279	10	26	10	48									279	10	37			
BASE PICKET.	341	47	56	48	20									341	48	08			
OBSERVATIONS AT MT. HARRIET AUX. PT. (TOP POINT). HEIGHT OF INST. 2' 8"																			
MT. KENT.	00	00	00	00	00									00	00	00			
BASE PICKET	94	38	22	38	15									94	38	18			
MT. HARRIET △	146	36	56	36	45									146	36	50			
CAIRN.	333	36	-	36	-									333	36	-	AUX. PT. TO CAIRN :- 15 FT.		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MT. HARRIET △	- 15	46	03	46	27	- 15	46	15	TOP OF PIPE.



DISTANCE :- MT. HARRIET TO BASE PICKET 58·75 FT.

BK 13.

Observer L/SGT. LOCKWOOD. Abstracted by L/SGT. LOCKWOOD.

Booker L/SGT. LOCKWOOD Checked by [signature] Sgt. R.E.

(61)

ABSTRACT OF ANGLES.

(TOPO. POINT)

Station MT. HARRIET AUX. PT.

Date 8/6/43 *Time* – *Weather* ST. WIND *Inst.* B 167 *Height of inst.* 2' 8" *Height of Beacon* 6' 0"

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT KENT	00	00	00	00	00	00	00	00	00							00	00	00			
TWO SISTERS S.W.	30	59	58	00	04	(CAIRN)										31	00	02			
TWO SISTERS N.E	47	54	03	54	21	54	12	54	20							47	54	14			
RABBIT ROCKS	241	32	56	32	59	32	46	32	55							241	32	54			
NORTH BASIN	270	40	43	40	45	40	47	40	48							270	40	46			
MT. 1240	324	06	44	06	52	06	51	06	47							324	06	49			
WALL MT.	325	19	13	19	26	19	27	19	27							325	19	23			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT KENT	+01	01	15	00	50	+01	01	02	G.L.
TWO SISTERS S.W.	+00	45	37	45	11	+00	45	24	TOP
TWO SISTERS N.E	–	–	–	–	–	–	–	–	—
RABBIT ROCKS	–	–	–	–	–	–	–	–	–
NORTH BASIN	–	–	–	–	–	–	–	–	–
MT. 1240	+00	37	29	36	41	+00	37	05	⊓←
WALL MT.	–00	17	41	18	24	–00	18	02	⊓←

BK. 13

Observer L/SGT. LOCKWOOD *Abstracted by* L/SGT. LOCKWOOD

Booker L/SGT. LOCKWOOD. *Checked by* [illegible]

(62)

ABSTRACT OF ANGLES.

Station TWO SISTERS N.E.

Date 9/6/43 *Time* _____ *Weather* G 000. *Inst.* B 167 *Height of inst.* 4' 10½" *Height of Beacon* —

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F. R		F. L		Mean Horizontal Angles Observed			Reduced to Centre		
SADDLE (W).	000	00	00	000	00	000	00	000	00	000	00	000	00	000	00	00			
MT. HARRIET AUX	160	05	49	05	58	05	51	05	47					160	05	51			
WALL MT.	211	~~19~~	~~21~~	19	58	19	56	19	56	19	58	-	-	211	19	57			
TWO SISTER S.W.	221	36	38	36	48	(CAIRN)								221	36	43			
S. PUSHOVER.	229	45	57	45	56	(CAIRN)								229	45	56			
N. PUSHOVER	231	57	16	57	19	(CAIRN)				SGT.				231	57	18			
MT. 1240	234 ~~294~~	15 ~~08~~	44 ~~28~~	~~15~~	~~56~~	15	49	15	34	·	-	15	39	234	15	42			
ESTANCIA (C).	294	08	28	08	24	(CAIRN)								294	08	26			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
WALL MT.	-00	28	56	28	40	-00	28	48	P←
TWO SISTER S.W.	+01	11	56	12	25	+01	12	10	TOP.
MT. 1240	+00	28	40	28	55	+00	28	48	P←

BK 13.

Observer L/SGT. LOCKWOOD *Abstracted by* L/SGT. LOCKWOOD

Booker SPR. MORGAN *Checked by* [illegible]

63

ABSTRACT OF ANGLES.

Station MOUNTAIN 1340

Date 13/6/43 Time _____ Weather _____ Inst. B.167. Height of inst. 4' 8½" Height of Beacon 6' 0"

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
MT. KENT	00	00	00	00	00	00	00	00	00							00	00	00			
MT. 1240	52	41	04	41	00	41	14	41	18							52	41	08			
NORTH BASIN	103	42	42	42	54	42	52	42	47							103	42	49			
RINCON	141	01	04	01	12	01	08	01	10							141	01	08			
MT. 1520	328	34	01	34	04	(CAIRN)										328	34	02			
NEEDLE.	341	07	04	07	06	(CAIRN)										341	07	05			
MT. WALL	56	09	02	09	01	08	57	09	01							56	09	00			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MT. KENT	-00	00	08	00	23	-00	00	15	G.L.
MT. 1240	-01	30	05	30	33	-01	30	19	
NORTH BASIN	-	-	-	-	-	-	-	-	-
RINCON	-03	50	45	50	53	-03	50	49	
MT. 1520	+01	54	35	54	11	+01	54	23	TOP.
NEEDLE.	-00	33	19	33	56	-00	33	38	TOP
MT. WALL	-	-	-	-	-	-	-	-	

Bk. 13.

Observer L/SGT. LOCKWOOD Abstracted by L/SGT. LOCKWOOD.

Booker SPR. MORGAN Checked by SPR. MORGAN.

64

ABSTRACT OF ANGLES.

Station MOUNTAIN 1240

Date 13/6/43. *Time* _____ *Weather* _____ *Inst.* B 167 *Height of inst.* 4' 1" *Height of Beacon* 5' 6"

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
MT. KENT	00	00	00	00	00	00	00	00	00							00	00	00			
EAST BLUFF	33	18	29	18	23	(cairn)										33	18	26			
TWO SISTERS N.E.	62	11	19	11	19	11	25	11	25							62	11	22			
WALL MT.	83	21	14	21	14	21	21	21	23							83	21	18			
MT. HARRIET AUX.	84	14	10	14	03	14	12	14	12							84	14	09			
RABBIT ROCKS	125	19	42	19	39	19	55	19	54							125	19	48			
NORTH BASIN	149	42	49	42	46	42	56	43	00							149	42	53			
MT. 1340	257	43	54	43	48	43	47	43	59							257	43	52			
NEEDLE	276	36	34	36	32	(cairn)										276	36	33			
MT. 1520	295	39	19	39	19	(cairn)										295	39	19			
KINGVIC	302	11	26	11	46	(cairn)										302	11	36			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MT. KENT	+00	48	33	48	10	+00	48	21	G.L.
EAST BLUFF	-	-	-	-	-	-	-	-	-
TWO SISTERS N.E.	-00	31	10	31	19	-00	31	15	PK
WALL MT.	-01	20	07	20	16	-01	20	12	PK
MT. HARRIET AUX.	-	-	-	-	-	-	-	-	-
RABBIT ROCKS	-	-	-	-	-	-	-	-	-
NORTH BASIN	-	-	-	-	-	-	-	-	-
MT. 1340	+01	30	36	30	31	+01	30	34	PK
NEEDLE	-	-	-	-	-	-	-	-	-
MT. 1520	+02	27	47	27	00	+02	27	24	TOP
KINGVIC	+01	09	04	08	24	+01	08	44	TOP

BK. 13.

Observer L/SGT. LOCKWOOD. *Abstracted by* L/SGT. LOCKWOOD.

Booker SPR. MORGAN *Checked by* SPR MORGAN.

65

ABSTRACT OF ANGLES.

Station MOUNT KENT.

Date 16/6/43 Time - Weather Inst. B167 Height of inst. 4' 10" Height of Beacon 5' 8"

Horizontal Angles / Vertical Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.			Mean V. A's			Sketch of Beacon
MT. VERNET.	00	00	00	00	00	00	00	00	00					00	00	00				-00	19	12	11	37		-00	19	25	F←
MT. MISERY.	44	21	40	21	39	21	38	21	42					44	21	40				-01	22	22	22	36		-01	22	29	GL
SADDLE (W).	53	00	19	00	18	00	21	00	20					53	00	20				-01	45	48	46	19		-01	46	04	GL.
TWO SISTERS NE	102	18	32	18	34	18	39	18	35					102	18	35				-01	10	21	11	03		-01	10	42	F←
MT. HARRIET AUX	120	21	03	21	01	21	06	21	03					120	21	03				-01	03	57	04	47		-01	04	22	F←
WALL MT.	136	57	58	58	07	58	09	58	05					136	58	05				-01	36	24	37	00		-01	36	42	F←
MT. 1240	180	13	35	13	49	13	37	13	38					180	13	40				-00	50	40	51	12		-00	50	56	F←
KINGVIC	182	30	22	30	25	(CAIRN)								182	30	23				-00	49	15	49	40		-00	49	28	TOP
MT. 1340	205	16	46	16	52	16	48	16	46					205	16	48				-00	02	25	03	02		-00	02	44	F←
SOUTH PUSHOVER	(CAIRN).																			-01	28	07	29	00		-01	28	34	TOP.
NORTH " "	"	"																		-01	25	55	26	18		-01	26	07	"
NEEDLE.	"	"																		-00	08	24	08	40		-00	08	32	"
MT. 1520	"	"																		+00	44	57	44	28		+00	44	43	"
ESTANCIA	"	"																		-01	36	26	37	12		-01	36	49	"
EAST BLUFF																				-05	48	33	49	10		-05	48	52	"
MT. KENT CAIRN – HEIGHT ABOVE STATION MARK =												8'	10"	[TO	TOP]														

BK. 12.

Observer L/SGT. LOCKWOOD. Abstracted by L/SGT. LOCKWOOD.

Booker SPR. MORGAN Checked by SPR. MORGAN.

66

ABSTRACT OF ANGLES.

Station MOUNT VERNET.

Date 16/6/43 Time – Weather – Inst. B167 Height of inst. 4' 6" Height of Beacon 6' 6"

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT KENT	00	00	00	00	00	00	00	00	00					00	00	00			
ESTANCIA	48	51	43	51	34	(CARN).								48	51	39			
McGILL'S	182	59	05	59	08	59	10	59	08					182	59	08			
LONG IS. EAST.	206	14	24	14	21	14	24	14	31					206	14	25			
HILL 15 (INT.)	229	44	55	44	52	.	.	.	.					229	44	54			
HILL 14 (INT)	244	11	06	11	03	.	.	.	.					244	11	05			
MT. MISERY.	251	06	23	06	13	06	20	06	18					251	06	18			
SADDLE (WEST)	273	36	40	36	42	36	36	36	35					273	36	38			
TWO SISTERS N.E.	319	17	33	17	31	17	20	17	28					319	17	28			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MOUNT KENT	+00	16	44	16	04	+00	16	24	G.L.
ESTANCIA	-01	52	05	52	26	-01	52	15	TOP
McGILL'S	-03	28	13	28	58	-03	28	36	F←
LONG IS. EAST.	-02	44	11	44	55	-02	44	33	F←
HILL 15 (INT.)	.	.	.	.	.	.	.	.	
HILL 14 (INT)	.	.	.	.	.	.	.	.	.
MT. MISERY.	-01	37	47	38	09	-01	37	58	G.L.
SADDLE (WEST)	-01	56	48	57	36	-01	57	12	G.L
TWO SISTERS N.E.	-00	36	46	37	17	-00	37	02	F←

BK. 12.

Observer L/SGT. LOUGHWOOD. Abstracted by L/SGT. LOUGHWOOD

Booker SPR. MORGAN Checked by SPR. MORGAN.

(67)

ABSTRACT OF ANGLES.

Station NORTH BASIN.

Date 17. June 43. Time [illegible]. Weather _____ Inst. B.167. Height of inst. 4' 2½" Height of Beacon 6' 5" Tripod Leg.

Horizontal Angles / Vertical Angles

Station	Face. L.			F. L.		F. R.		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
RUSCOIK	00	00	00	00	00	00	00	00	00					00	00	00				00	32	10	32	40	+00	32	25	pt
MT. 1340	57	53	54	53	50	53	55	53	59					57	53	54												
MT 1240	78	51	01	50	54	51	00	51	03					78	51	00												
WALL MT.	122	40	06	39	57	40	09	40	05					122	40	04												
MT. HARRIET Auk Pt.	146	45	08	45	00	45	13	45	03					146	45	08												
RABBIT ROCKS	200	17	13	17	00	17	14	16	59					200	17	08												
BOLD Pt.	291	40	33	–		40	31	–						291	40	35				00	33	26	33	53	-00	23	40	pt

Observer SPR MORGAN Abstracted by SPR MORGAN.

Booker DVR KING. Checked by U/SLT. LOCKWOOD.

BK. 12

(68)

ABSTRACT OF ANGLES.

Station RABBIT ROCKS.

Date 17 June '43 Time p.m. Weather Inst. B.167 Height of inst. 4' 2½" Height of Beacon

Horizontal Angles / Vertical Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
NORTH BASIN	00	00	00	00	00	00	00	00	00					00	00	00												
HT 1240	34	10	45	10	40	10	43	10	42					34	10	43												
WALL HT.	61	07	50	07	49	07	46	07	48					61	07	49												
HT. HARRET AUX PC.	90	31	15	31	14	31	14	31	16					90	31	15												
BOLD PC.	328	36	12	36	14	—		—						328	36	13.				00	34	00	35	10	— 00	34	35	

BIC. 12.

Observer SPR McGRAW Abstracted by SPR McGRAW.

Booker DVR KING. Checked by SGT. LOUGHNEED.

69

ABSTRACT OF ANGLES.

Station SADDLEBACK (WEST).

Date 18/6/43. *Time* — *Weather* *Inst.* B.167. *Height of inst.* 4' 6" *Height of Beacon*

Horizontal Angles

Station	Face. R			F. L		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MOUNT KENT	00	00	00	00	00									00	00	00			
ESTANCIA	28	09	24	09	24									28	09	24			
HILL 15	64	23	17	23	23									64	23	20			
HILL 14	116	14	00	14	05									116	14	02			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
HILL 15	+01	26	20	26	18	+01	26	19	F←
HILL 14	-00	00	35	00	25	-00	00	30	F←

BK.12.

Observer L/SGT. LOCKWOOD *Abstracted by* L/SGT. LOCKWOOD.

Booker ~~L/SGT. LOCKWOOD~~ SPR. MORGAN *Checked by* SPR Morgan.

(70)

ABSTRACT OF ANGLES.

Station Int. Kisent

Date 13. 6. 43 / 17. 6. 43 Time 09.30 hrs. Weather Fair, Hot Haze. Inst. Theo. B108 Height of inst. 4' 8" Height of Beacon m

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre
12 o'clock Ro.	00	00	00	00	00	00	00	00	00					00	00	00	
Sandilbow. J.	95	25	05	25	18	25	02	25	09					95	25	09	
Int. Kent.	~~116~~	~~52~~	~~02~~	~~52~~	~~09~~	~~51~~	~~59~~	~~52~~	~~03~~					~~116~~	~~52~~	~~00~~	SEE BELOW
Int. Sennet.	~~143~~	~~36~~	~~50~~	~~36~~	~~53~~	~~37~~	~~01~~	~~37~~	~~57~~					~~143~~	~~36~~	~~55~~	SEE BELOW
Stile 15.	154	04	38	04	39	04	47	04	44					154	04	42	
Stile 14.	167	42	45	42	47	42	41	42	41					167	42	43	
12 o'clock Ro.	00	00	00	00	00	00	00	00	00					00	00	00	
Stile 15.20	115	13	03	13	09	13	08	13	00					115	13	05	
Mc Gillo	187	41	20	41	19	41	24	41	28					187	41	23	
L. Island W.	199	13	24	13	26	13	32	13	25					199	13	27	
L. Island E.	208	02	46	02	42	02	41	02	41					208	02	42	
12 o'clock Ro.	00	00	00	00	00	00	00	00	00					00	00	00	
2. Sisters	85	50	01	49	52	50	15	50	24					85	50	08	
Int. Kent.	116	52	22	52	33	52	36	52	49					116	52	35	
Int. Sennet.	143	37	17	37	25	37	23	37	38					143	37	26	

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Int. Kent.	+01	16	14	17	04	+01	16	39	G.L.
Int. Sennet.	+01	32	55	34	01	+01	33	28	G.L.
Stile 15.	+01	20	36	21	26	+01	21	01	P←
Stile 14.	+00	20	33	21	44	+06	21	19	P←
Stile 15.20	+01	07	31	08	27	+01	07	59	[illegible]
Mc Gillo	-01	02	20	01	10	-01	01	45 *	P←
L. Island W.	-00	54	46	53	53	-00	54	20	P←
L. Island E.	-01	24	47	20	40	-01	24	14	P←

Book. No. 5.

Observer Lieut. G. Thomas Abstracted by G. Thomas.

Booker Sgt. G. Stewart Checked by Sgt Stewart

* Point different to observe at time of vertical observation

(71)

ABSTRACT OF ANGLES.

Station Long Island East.

Date 1. 6. 43 Time 2.30 hrs Weather Fair Inst. Wild T3 No 58 Height of inst. 4' 0" Height of Beacon

Horizontal Angles

Vertical Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Sub. Missing R.O.	00	00	00	00	00	00	00	00	00					00	00	00				+01	18	50	20	11	+01	19	32	
Stile 14	14	53	31	53	31	53	30	53	31					14	53	31				+01	48	33	49	24	+01	48	58	G.L.
Stile 15	58	35	40	35	40	35	42	35	41					58	35	41				+02	56	47	57	46	+02	57	16	
Sub. Vessels	70	42	37	42	38	42	41	42	37					70	42	42				+02	40	52	41	47	+02	41	19	

Book No. 5

Observer Lt. G. Holland Abstracted by G. Holland

Booker Sgt. Holland Checked by G. Holland Sgt R.E.

(71)

72 Book No. 4.

ABSTRACT OF ANGLES.

Station Long Island West.

Date 1·6·43. Time _____ Weather Fair. Inst. Tavi 3·161. Height of inst. 4' 8" Height of Beacon 6' 5"

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Mt. Misery R.D.	00	00	00	00	00	00	00	00	00					00	00	00			
Hill 14.	08	10	54	10	51	10	40	10	48					08	10	48	(No Fall (is Sight with Caution)		
Hill 15.	41.	03	44	03	44	03	52	03	41					41	03	45			
Mt. Vernet	59	35	12	35	17	35	14	35	18					59	35	15			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Mt. Misery R.D.	+00	51	49	50	27	+00	51	08	P←
Hill 14.	+01	09	07	07	49	+01	08	28	G. L.
Hill 15.	+02	29	47	28	27	+02	29	07	P←
Mt. Vernet	+02	36	42	35	40	+02	36	11	P←

Observer Lt. Bonn J.J. Abstracted by J. J. Bunn

Booker Spr. Stride E.G. Checked by E. G. Stride

72

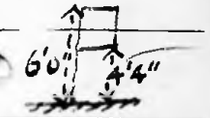
(73)

ABSTRACT OF ANGLES.

Date 7. 6. 43 Time ~~Forecast~~ 12.50 hrs Weather Overcast Inst. Tavi. B108 Height of inst. 4' 8" Station Mc Gills Point. Height of Beacon

Horizontal Angles

Vertical Angles



Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Mt. Sewell R.O.	00	00	00	00	00	00	00	00	00					00	00	00				+03	26	04	26	53	+03	26	29	
Mt. Lisey	292	10	58	11	04	10	59	11	10					292	11	03				+00	57	52	58	48	+00	58	20	
Hill 14	298	00	52	00	50	00	57	00	55					298	00	54				+01	20	33	21	26	+01	21	05	G.L.
Hill 13	334	02	05	01	58	02	55	02	02					334	02	03				+03	22	30	23	29	+03	23	05	

Book No. 5

Observer Lt. G. Thomas Abstracted by G. Thomas

Booker Sgt. G. Stewart Checked by G. Stewart

(73)

(74)

(MATHEWS EXTENSION)
(NORTHERN EXTENSION)

ABSTRACT OF ANGLES.

Station Long Island Ridge

Date 15-6-43 Time 14-00hrs. Weather Misty + Showers Inst. B108 Height of inst. 4' 4" Height of Beacon

5'9½" +5"

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
(Aux Pt) 2 o'clock R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
Mt. Kiser	207	10	50	10	47	10	42	10	47					207	10	47			
Big Rock	232	13	27	13	24	13	18	13	32					232	13	25			
Sea View	291	32	38	32	46	32	40	32	36					291	32	40			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's		
2 o'clock R.O.	+02	10	54	11	30 ~~40~~	+02	11	12 ~~07~~
Mt. Kiser	+00	01	35	02	24	+00	02	00
Big Rock	-01	17	32	16	37	-01	17	05
Sea View	-01	52	30	50	59	-01	51	45

Sketch of Beacon

Book No. 5

Observer Capt. G. Thomas Abstracted by Mr Stuart

Booker Mr. J. Stuart Checked by G. Thomas

(74)

75

ABSTRACT OF ANGLES.

(NORTHERN EXTENSION)

Station Mt. Hiseur

Date 13. 6. 43 Time 15.00 hrs. Weather Fair Inst. Dwi. B108 Height of inst. 4'8" Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
12 O'clock (Tox) R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
L. Blind Ridge	08	30	53	30	57	31	08	30	56					08	30	57			
Zig. Rock.	332	32	08	32	05	31	57	31	59					332	32	02			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
12 O'clock (Tox) R.O.									
L. Blind Ridge	-00	03	57	03	12	-00	03	35	P← (Bottom)
Zig. Rock.	-01	49	33	48	49	-01	49	11	P← (Top).

Book No. 5

Observer Lt. G.L. Thomas Abstracted by G.L. Thomas.

Booker Sgt. G. Stewart Checked by Sgt G.J. Stewart

75

(76)

ABSTRACT OF ANGLES.

(NORTHERN EXTENSION)

Station Sea View

Date 16. 6. 43 Time 11-30 hrs. Weather Good. Inst. Wild. 3108 Height of inst. 4'6" Height of Beacon

Horizontal Angles

Vertical Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
(HOR. PT) 12 Clock R.B.	00	00	00	00	00	00	00	00	00					00	00	00				+03	33	33	36	17	+03	36	10	
L. Blind Ridge	58	56	42	56	4	56	42	56	4					58	56	42				+01	51	35	52	35	+01	52	05	
Dig. Rock.	136	06	13	06	15	06	10	06	18					136	06	15				+00	04	06	05	08	+00	05	34	

BOOK. No. 5

Observer Lpl. G. Wood Abstracted by G. Wood

Booker Lpl. G. Stuart Checked by Spr. G. Stuart

(76)

77

ABSTRACT OF ANGLES.

(NORTHERN EXTENSION)

Station TWELVE O'CLOCK (AUX. PT)

Date 15. 6. 43 Time 12.00 hrs. Weather Misty & Showers Inst. Tavi B168 Height of inst. 4'6" Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Int. Lgd R.O	00	00	00	00	00	00	00	00	00					00	00	00			
Long Island Ridge	172	21	28	21	29	21	34	21	39					172	21	32			
Sea View	224	57	41	57	49	57	42	57	52					224	57	46			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Int. Lgd R.O									
Long Island Ridge	-02	11	40	10	15	-02	10	58	P←
Sea View	-03	36	36	35	23	-03	35	57	P←

BOOK NO. 5

Observer Lcpl. [illegible] Abstracted by G. Thomas.

Booker Spr. G. Stuart Checked by Spr. G. J. Stuart

77

(78)

ABSTRACT OF ANGLES.

(NORTHERN EXTENSION)

Station Ing. Rock.

Date 14. 6. 43 Time 14.00 hrs. Weather Fair Inst. Fair. B108 Height of inst. 4' 7" Height of Beacon 5'10" 4'5"

Horizontal Angles

Vertical Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Sea View Ro.	00	00	00	00	00	00	00	00	00					00	00	00				-00	05	20	03	59	-00	04	40	P←
Long Island Ridge	43	31	01	31	01	31	00	31	15					43	31	04				+01	13	38	14	36	+01	14	07	P←
Int. Hiseng	162	29	25	29	40	29	35	29	39					162	29	35				+01	48 ~~49~~	40 ~~10~~	49	39	+01	49	10	P←

Book No. 5

Observer Capt. G. Thomas Abstracted by G. Thomas.

Booker G. Thomas Checked by Capt. J. J. Street

(78)

TOWN SCHEME Book 1.

79

ABSTRACT OF ANGLES.

Station POINT D

Date 8.6.43. Time _____ Weather Windy. Inst. B 108. Height of inst. - Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CORTNEY HILL R.D.	00	00	00	00	00	00	00	00	00					00	00	00			
TOWN HALL VANE	35	24	52	24	34									35	24	43			
ROSS ROAD.	38	40	06	40	06	40	02	40	27					38	40	10			
VILLIERS STREET	43	15	55	15	51	16	12	16	01					43	16	00			
DAIRY PADDOCK RD.	46	15	37	15	41	15	33							46	15	37			
GOV. HO. F.S.	48	57	41	59	38									48	57	40			
BERWOOD RD.	49	40	35	40	32	40	46	40	34					49	40	37			
MONUMENT	52	45	57	45	51									52	45	54			
VALLEY GATE	57	37	11	37	24	37	16							57	37	17			

Vertical Angles

Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer Cpl. Bunn Abstracted by J. J. Bunn.

Booker J. J. Bunn Checked by LT Thomas.

79

TOWN SCHEME Book 1.

80

ABSTRACT OF ANGLES.

Station CORTLEY HILL

Date 3. 6. 48 Time _____ Weather Windy. Inst. B. 108. Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Sapper Hill R.O	00	00	00	00	00	00	00	00	00					00	00	00			
Point D.	53	21	21	21	42	21	43	21	30					53	21	34			
VILLIERS. AMM. ST. ~~Langmarch Rd~~	313	04	48	05	02	05	02	04	50					313	04	55			
Town Hall Vane	314	44	13	44	20	44	22	44	16					314	44	18			
Ross Rd.	324	46	38	46	43	46	46	46	28					324	46	39			
Brandon Rd.	332	43	35	43	38	43	47	43	36					332	43	39			
Gov. Hto. F.S.	341	46	53	47	05	47	03	46	51					341	46	58			
Valley Gate	343	06	21	06	23	06	20	06	16					343	06	20			
Monument	355	29	51	29	07	29	07	28	58					355	29	03			
DAIRY PADDOCK RD. ~~Vocanrd~~	320	33	14	33	17	33	13	33	08					320	33	13 ~~20~~			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer Cpl Bunn Abstracted by J. Bunn

Booker J. Bunn Checked by S. S. Thomas Lt.

80

TOWN SCHEME Book 1.

81

ABSTRACT OF ANGLES.

Station CATHEDRAL SPIRE. STATION 1.

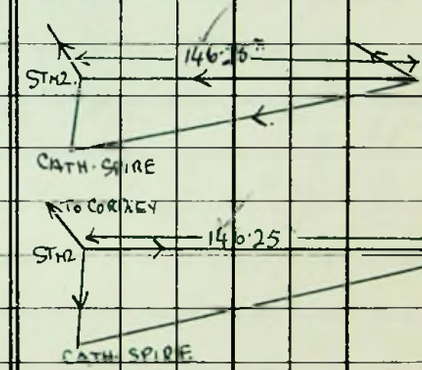
Date 14 JUN 43 Time FORENOON Weather WINDY. DULL. Inst. TAVI. B161 Height of inst. —— Height of Beacon ——

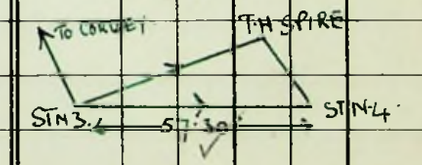
Horizontal Angles

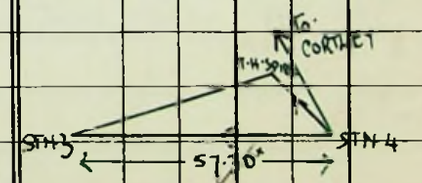
Station	Face. R			F. L		F.	F.	F.	F.	Mean Horizontal Angles Observed			Reduced to Centre
CORTLEY R.O	00	00	00	00	00					00	00	00	
CATHEDRAL SPIRE	295	43	30	43	32					295	43	31	
STATION 2	307	23	50	23	54					307	23	52	
CATHEDRAL SPIRE STATION 2													
CORTLEY R.O	00	00	00	00	00					00	00	00	
STATION 1	122	41	18	41	14					122	41	16	
CATHEDRAL SPIRE	215	15	12	13	58					215	14	35	
TOWN HALL SPIRE STATION 3													
CORTLEY R.O	00	00	00	00	00					00	00	00	
TOWN HALL SPIRE	74	13	55	13	31					74	13	43	
STATION 4	104	54	24	54	25					104	54	25	
TOWN HALL SPIRE STATION 4													
CORTLEY R.O.	00	00	00	00	00					00	00	00	
STATION 3	287	26	01	25	45					287	25	53	
TOWN HALL SPIRE	331	33	21	33	18					331	33	20	

Vertical Angles

Face R.	F. L.	Mean V. A's	Sketch of Beacon







Observer Lt. Thomas Abstracted by Lt H. Calder.

Booker Lt. H. Calder. Checked by Lt. Thomas

81

TOWN SCHEME Book 1

82

ABSTRACT OF ANGLES.

Station DAVIES STREET (Resection)

Date 5.6.43. Time forenoon Weather Fair Inst. Tavi B108. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
SAPPER HILL R.O.	00	00	00	00	00	00	00	00	00					00	00	00	✓		
POINT "D"	50	38	52	38	58	39	02	38	55					50	38	57	✓		
CORTLEY HILL	74	36	49	36	56	36	55	36	48					74	36	53	✓		
MOUNT LOW	116	00	10	00	18	00	17	00	13					116	00	15	✓		
MENGEARY LT. HO	162	16	48	16	56	17	02	16	48					162	16	53	✓		
CAPE PEMBROKE LT. HO	185	51	25	51	33	51	33	51	24					185	51	29	✓		
LOOKOUT ROCKS (Resection)																			
SAPPER HILL R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
McLOUGHLIN	30	14	34	14	41	14	36	14	30					30	14	35	✓		
CORTLEY HILL	68	16	51	16	57	16	57	16	57					68	16	56	✓		
MT. LOW	109	57	59	58	08	58	10	58	07					109	58	06	✓		
MENGEARY LT. HO.	156	26	04	26	14	26	07	26	00					156	26	06	✓		
CAPE PEMBROKE LT. HO.	180	09	27	09	38	09	36	09	27					180	09	32	✓		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
MENGEARY LT. HO.	TRIAL POINT			936	137	373	374	3	

Observer J. J. BURNS Abstracted by J. J. Burns

Booker LT. CALDER Checked by H Calder Lt

82

TOWN SCHEME BOOK 1.

83

ABSTRACT OF ANGLES.

Station Ross Road Peg (West End)

Date 4. 6. 43. Time Forenoon. Weather Cloudy Inst. Tavi 3108 Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face. R			F. L		F. L		F. R.		F.		F.		Mean Horizontal Angles Observed					
POINT D. R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
CORTLEY HILL	52	44	41	44	38	44	50	44	41					52	44	44			
TOWN HALL VANE	146	15	26	15	28									146	15	27			
GOV. HO. F.S.	311	02	56	03	01									311	02	59			
MONUMENT	329	46	21	46	28									329	46	25			
LAMP POST	223	24	-	20	-									223	22	-			
					BRANDON ROAD PEG. (W)														
POINT "D"	00	00	00	00	00	00	00	00	00					00	00	00			
GOV. HO. F.S.	03	55	02	55	06									03	55	04			
CORTLEY.	49	41	32	41	24	41	31	41	23					49	41	28			
MONUMENT.	352	52	48	52	50									352	52	49			
					DAIRY PADDOCK PEG.														
SAPPER HILL R.O.	00	00	00	00	00									00	00	00			
POINT D (R.O.)	72	35	25	35	27	00	00	00	00					72	35	26			
CORTLEY.	113	31	18	31	21	40 455	54	55	58					113	31	20			
TOWN HALL.	128	42	33	42	34									128	42	37			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
	Distance to Lamp Post = 6.5 feet.								

POINT D. R.O.	00	00	00
POINT D R.O.	00	00	00
CORTLEY	40	55	55

Observer Capt. BUNN. Abstracted by J. J. Bunn.

Booker LT. THOMAS. Checked by J. J. Thomas Lt.

83

(S4)

ABSTRACT OF ANGLES.

Station Brandon Road (Peg.) West

Date 21. 6. 43. Time Forenoon Weather Fine Inst. Tavi Bibi Height of inst. 4' 5" Height of Beacon — Height observed to 4' 5"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Point D R.O.	00	00	00	00	00									00	00	00			
Brandon Rd. △(N)	47	54	51	53	15									47	54	03			
Corlly	49	41	15	41	19									49	41	17			
Telegraph. Pole (1)	340	56	33	57	37									340	57	05			
								Dairy Paddock Rd. (Peg.)											
Sapper Hill R.O.	00	00	00	00	00									00	00	00			
Telegraph. Pole (2)	299	52	23	51	14									299	51	49			
W. Fence Corner (Flag.)	351	38	26	38	27									351	38	27			
								Kilbirnie Street. (Peg.)											
Sappers Hill R.O.	00	00	00	00	00									00	00	00			
Callaghan Rd. West △	42	15	24	15	20									42	15	22			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Point D R.O.									
Brandon Rd. △(N)									Distance to mark. △ = 32.3 feet.
Corlly									
Telegraph. Pole (1)	-06	06	0	03	57	-06	05	07	Stand. Distance to Pole = 278.5 feet
Sapper Hill R.O.									
Telegraph. Pole (2)									Distance to Pole. = 69.0 feet.
W. Fence Corner (Flag.)									
Sappers Hill R.O.									
Callaghan Rd. West △									Distance to mark. = 93.75 feet.

Observer Lieut. Bunn Abstracted by J. J. Bunn.

Booker Dor. Watt. Checked by H. Calder Lt.

TOWN SCHEME Book 1

ABSTRACT OF ANGLES.

ST.

Station VILLIERS ~~[illegible]~~ PEG. 4

Date 4·6·43. Time afternoon Weather Cloudy Dull. Inst. Tavi B108. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
POINT D. R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
TOWN HALL VANE	32	37	08	37	08									32	37	08			
CORTLEY	36	27	05	26	58	27	11	27	08					36	27	05			
SAPPER HILL	293	45	31	45	31									293	45	31			
								VALLEY	GATE	B.M.									
POINT D R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
CORTLEY.	52	01	24	01	27	01	27	01	28					52	01	26			
GOV. HO. F.S.	58	04	51	05	05									58	04	58			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer 4/Cpl BUNN Abstracted by J. J. Bunn

Booker Lt. THOMAS. Checked by Lt. Thomas.

Town Scheme Book 1.

86

ABSTRACT OF ANGLES.

TRIAL POINT E 336 130 N 3734 200

Station SNAKE HILL (Resection)

Date 4.6.43. Time forenoon. Weather Cloudy. Inst. Tavi B108. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face. K.			F. L		F. L		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MT. LOW R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
MENGEAR LT. HO.	47	57	18	57	21	57	24	57	23					47	57	21			
CANOPUS.	73	52	19	52	33	52	34	52	33					73	52	30			
MT. WILLIAM	251	07 ~~13~~	59 ~~25~~	08	11	08	23	08	15					251	08	12			
CATH. SPIRE.	280	44	26	44	32	44	40	44	35					280	44	33			
CORTLEY HILL	311	01	08	01	08	01	14	01	09					311	01	10			
								SNAKE HILL (Res.)											
CORTLEY HILL R.O.	00	00	00	00	00	00	00	00	00					00	00	00			
PEG (SNAKE HILL)	209	31	00	27	00									209	29	00			
MONUMENT	323	32	28	32	22									323	32	25			
TOWN HALL VANE	327	54	53	54	45									327	54	49			
	DISTANCE TO PEG = 18 3																		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer Capt. Gunn Abstracted by J. J. Gunn.

Booker LT THOMAS. Checked by J. L. Thomas.

TOWN SCHEME.

ABSTRACT OF ANGLES.

Station EAST FENCE JUNCTION

Date 26. 6. 43. Time forenoon. Weather Fine. Inst. B. 108 Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face. R.			F. L		F. L		F. R.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
SEAL POINT R.D.	00	00	00	00	00	00	00	00	00					00	00	00			
Mt. ~~McLean~~ William	00	02	49	02	50	02	57	02	58					00	02	53			
LOOKOUT ROCK (Res.)	115	27	32	27	43	27	55	27	46					115	27	44			
12 O'clock AUX. PT.	139	27	10	27	10	27	11	27	02					139	27	11			
CANOPUS	223	39	61	39	45	39	47	39	37	40	08			223	39	50			
CAPE PEMBROKE LTHO.	228	10	20	10	21	10	20	10	00					228	10	23			
						EAST FENCE JUNCTION													
SEAL POINT R.D.	00	00	00	00	00	00	00	00	00					00	00	00			
FENCE POINT	68	57	00	57	01									68	57	00			
LOOKOUT ROCKS △	116	43	33	43	45									116	43	39			
FENCE JUNCTION	174	03	13	03	45									174	03	59			
RIDGE POINT	186	24	57	25	03									186	25	00			
WEST GATE POST.	222	42	11	42	12									222	42	12			

DISTANCE TO FENCE JUNCTION = 70' 9"

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer L/Cpl. THOMAS " " BUNN Abstracted by L/Cpl. BUNN.

Booker L/Cpl. BUNN " " THOMAS. Checked by G. Thomas.

57

Toian Scheme

(85)

ABSTRACT OF ANGLES.

Station Lookout Rock Resection

Date 26. 6. 43. Time 12. 30 Weather Fair. Inst. 3. 108. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face. R.			F. L		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Sapper Hill	00	00	00	00	00							00	00	00			
Lookout Rock △	203	57	25	57	39							203	57	32			
Fence Point	301	15	11	15	20							301	15	15			
						Lookout Rock △ (Hutchinson Point)											
Sapper Hill R.O.	00	00	00	00	00							00	00	00			
Ridge Point	199	43	35	43	38							199	43	37			
E. Fence Junc. Res	245	25	16	25	20							245	25	18			
						Ridge Point (Resection)											
E. Fence Junc.	00	00	00	00	00							00	00	00			
Lookout Rock △	64	36	54	36	52							64	36	53			
						Ridge Point (Resection)											
Lookout Rock △	00	00	00	00	00							00	00	00	00	00	00
Centre.	171	13	38	170 50	44							171	32	11			
West Gate Post.	229	39	10	39	11							229	39	10	229	46	14

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
	Distance to △ = 58' 8"								Hutchinson △
	Horizontal angles reduced to E.F. Junction Ro.								
	64	36	53						
	Distance to Centre 1' 10"								
	294	23	07						

Observer Lieut. Bunn Abstracted by J. J. Bunn.

Booker A. Thomas. Checked by A. Thomas.

(88)

(89) TOWN SCHEME.

ABSTRACT OF ANGLES.

Station VALLEY GATE (B.M.)

Date 15·6·43. Time Afternoon Weather FINE Inst. 3161 Height of inst. Height of Beacon

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CORTLEY HILL R.O.	00	00	00	00	00									00	00	00			
R.A. OUTPOST POINT	102	58	47	58	50									102	58	48			
W. FENCE CORNER.	167	10	20	10	18									167	10	19.			
R.A. OUTPOST POINT SATELLITE																			
SAPPER HILL R.O.	00	00	00	00	00									00	00	00	00	00	00
W. FENCE CORNER	11	27	56	28	17									11	28	06	11	28	30
POINT D.	62	11	20	11	38									62	11	27	62	12	13
CORTLEY.	93	57	56	58	07									93	58	01	93	59	07
FENCE POINT.	215	50	00	50	12.									215	50	06	215	48	40
CENTRE.	01	20	50	—										01	20	50.			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
DISTANCE TO CENTRE = 2' 0"									

Observer Capt. THOMAS. Abstracted by J. J. Bunn

Booker " BUNN Checked by E. L. Thomas

(89)

(90)

ABSTRACT OF ANGLES.

Station SAPPER HILL.

Date 26/6/43 Time am. Weather Cold Inst. B.167 Height of inst. — Height of Beacon

Horizontal Angles

Station	Face. R			F. L		F. L		F. R		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CORTLEY RO	00	00	00	00	00	00	00	00	00					00	00	00			
Flag.	39	27	01	27	10	27	07	27	03					39	27	05			
POINT D.	333	45	39	45	39	45	42	45	39					333	45	40			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer Spr Morgan. Abstracted by Spr Morgan.

Booker Spr. Morgan. Checked by Lt. G. Thomas.

TOWN. SCHEME.

(90)

(91)

TOWN SCHEME. **ABSTRACT OF ANGLES.**

(F(99))

Station RIDGE POINT. RESECTION.

Date 1st July 43. Time — Weather V. Cold. Inst. B167. Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
SAPPER HILL.	00	00	00	00	00	00	00	00	00					00	00	00			
MT WILLIAM.	03	13	20	13	18	13	27	13	20					03	13	21			
MT 1520 (CAIRN)	08	09	32	09	41	09	44	09	35					08	09	38			
MT KENT (CAIRN)	17	38	45	38	35	38	40	38	34					17	38	39			
MT McLOUGHLIN AUX PL.	26	45	50	45	46	45	56	45	50					26	45	51			
TWELVE O'CLOCK A	83	04	04	04	05	—		—						83	04	05			
CORTLEY HILL	56	04	00	04	08	—		—						56	04	04			
MT LOW.	102	49	01	48	55	—		—						102	48	58			
MENGEARY LT HSE	151	06	04	06	03	06	06	06	00					151	06	03			
CANOPUS.	173	08	05	08	11	—		—						173	08	08			
CAPE PEMBROKE LT HSE	175	51	20	51	22	—		—						175	51	21			
SEAL PL.	306	19	11	19	06	—		—						306	19	08			
E[illegible] Junction [illegible]	312	13	51	13	54	—		—						312	13	53.			

Vertical Angles

Face R.			F. L.		Mean V. A's			Sketch of Beacon

Obs. Book. 9.

Observer Ste. Morgan. Abstracted by Ste Morgan.

Booker _____ Checked by E. G. Stuart.

(91)

(92)

Town. Scheme.

ABSTRACT OF ANGLES.

Station (Flag) EAST POINT (RES.)

Date 29 June 43 Time _____ Weather V. Cold. Inst. B167. Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre
CORTLEY Hill. Ro.	00	00	00	00	00	00	00	00	00					00	00	00	
TWELVE O'CLOCK A	36	15	33	15	33	15	37	15	31					36	15	33	
MT LOW	57	26	43	26	35	26	37	26	43					57	26	40	
CANOPUS	136	01	15	01	14	01	19	01	17					136	01	16	
SNAKE HILL.	314	36	45	36	48	36	58	36	57					314	36	52	
CATHEDRAL SPURS	330	13	47	13	53	13	59	14	03					330	13	55	
MT KENT CAIRN.	330	22	08	22	10	22	19	22	19					330	22	14	
POINT D.	346	05	03	05	09	05	12	05	19					346	05	11	
EAST POINT (NORTH) PEG.	66	30	45	30	48	—		—						66	30	46	
END of STR. of FENCE. (SOUTH) (PEG)	245	44	00	56	29	45	50	49	02					245	48	50	
TELEGRAPH POLE	248	40	40	39	44	40	50	39	41					248	40	15	
	Observations at South Peg to determine Bgon. Fence.																
EAST POINT. R.O	00	00	00	00	00									00	00	00	
STR of FENCE.	268	53	33	53	45									268	53	39	

Vertical Angles

Station	Face R.	F. L.	Mean V. A's	Sketch of Beacon
Distance to Peg	54·25 ft		=	18·08 yds.
Distance to Peg.	393 ft.		=	131 yds.
Distance to Pole	31·33			10·44 yds.

Obs Book 9.

Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker _____ Checked by E.C. Stress

(92)

(93)

TOWN SCHEME

ABSTRACT OF ANGLES.

Station Snake Hill (Peg).

Date 30 June 43. Time — Weather V. Cold Inst. B.167. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
CORTLEY RO.	00	00	00	00	00	00	00	00	00					00	00	00			
TWELVE OCLOCK A	27	31	14	31	19	31	10	31	20					27	31	16			
MT LOW.	48	53	08	53	05	53	10	53	06					48	53	04			
EASTPOINT (Flag)	121	29	09	29	09	29	07	29	13					121	29	10			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Obs Book. 9.

Observer Spr. Morgan. Abstracted by Spr. Morgan

Booker _____ Copy Checked by E.G. Stride

(93)

(94)

ABSTRACT OF ANGLES.

Station R.A. Command Post K Section.

Date 5th & 7th July 43. Time _____ Weather _____ Ht of Inst. 5' 3¼" ~~Height~~ of inst. 13.164. Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre
Copper Hill Ro.	00	00	00	00	00	00	00	00	00					00	00	00	
Wireless Mast S	35	25	33	25	42	25	48	25	47					35	25	43	
Wireless Mast N	36	19	58	20	06	20	14	20	12					36	20	07	
Mt McLoughlin Aux Pt	38	14	51	14	55	-		-						38	14	53	
Corney Hill	96	33	09	33	13	33	12	33	18					96	33	13	
Mt Low [redacted]	123	06	31	06	29	(Omitted)								123	06	30	
Mengeans Lt Hse.	166	24	58	24	58	25	16	25	09					166	25	05	
Cape Foulwhole Lt Hse	188	34	33	34	46	34	48	34	56					188	37	46	
R.A. Outpost Flag.	295	54	03	54	06	54	08	54	19					295	54	09	
R.H. WATER TOWER.	146	08	08	08	15	08	26	08	18					146	08	[redacted]	
Height Finder	163	35	10	29	18	-		-						163	32	14	
G.L. Receiver	191	14	33	14	41	-		-						191	14	37	
Predictor	36	02	48	02	59	-		-						36	02	54	
C. Bearing Picket. (MEAN GUN POSITION)	108	36	52	36	52	-		-						108	36	52	
VERTICAL. C. Bearing Picket	07	13	40	17	00									- 07	15	20	(G.L)
Ht of Inst. 5' 4"																	

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Copper Hill Ro.	02	08	00	07	20	+ 02	07	40	
Wireless Mast S	00	36	40	36	52	+ 00	36	46	
Wireless Mast N	00	39	10	38	21	+ 00	38	46	
Mt McLoughlin Aux Pt									
Corney Hill	00	04	37	05	25	- 00	05	01	
Mt Low [redacted]									
Mengeans Lt Hse.	00	08	51	09	30	- 00	09	10	
Cape Foulwhole Lt Hse	- 00	07	30	08	18	- 00	07	54	Top of Tower.
R.A. Outpost Flag.									
R.H. WATER TOWER.	[redacted]								
Height Finder	DISTANCE TO H.F.					4' 1"	=		1·36 yards
G.L. Receiver	[redacted]								
Predictor	DISTANCE TO PREDICTOR					27·5 ft	=		9·16 yards
C. Bearing Picket.	DISTANCE TO C.B.P.							62'-3½"	
								=	20·76 YARDS
C. Bearing Picket	Height of Height Finder					4	7"		
Ht of Inst. 5' 4"	Height of Predictor					5'	4½"		

Observer Sp. Morgan. Abstracted by Sp. Morgan

Booker Sp. Morgan / Dvr. Miller Checked by Sp. Frear.

Ob Book No 9.

(94)

(95)

ABSTRACT OF ANGLES.

Station Villiers Street (Peg) A.

Date 7 July. Time _____ Weather Good Inst. B167. Height of inst. — . Height of Beacon _____

Horizontal Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cathedral Spire	00	00	00	00	00	00	00	00	00					00	00	00			
G.L. Receiver	93	26	31	26	40	26	26	26	21					93	26	30			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer for Morgan. Abstracted by Jno Morgan.

Booker Jno Miller. Checked by [illegible]

Old Book No 9.

(95)

(96)

ABSTRACT OF ANGLES.

Station G. L. Receiver (Centre)

Date 7 July 43. Time _____ Weather Cold. Inst. B167. Height of inst. — Height of Beacon _____

Horizontal Angles

Station	Face. R			F. L		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
G. L. Receiver (Centre)																			
Cathedral Spire	00	00	00	00	00	00	00	00	00					00	00	00			
Mengeary Lt Hse.	54	09	12	08	47	—		—						54	09	00			
Pembroke Lt Hse.	76	37	01	36	52	—		—						76	37	57			
Ht Finder (Res) Pt OP	259	19	56	20	01	—		—						259	19	58			
Wireless Mast S	282	47	21	47	20	—		—						282	47	20			
—"— N	283	41	02	40	41	—		—						283	40	52			
Corthy. Hill	340	23	01	23	09	—		—						340	23	05			
Villiers Street Leg	302	43	04	43	25	—		—						302	43	15			
Rhedge Coastal Tower	50	13	34	13	46									50	13	40			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Obs Book No 9.

Observer Sgt Morgan. Abstracted by Sgt. Morgan.

Booker Sgt. Morgan. Checked by Sgt. Stuart

(96)

97

ABSTRACT OF ANGLES.

Murray Heights.

Station R.A. Predictor (Satellite)

Date July 42. Time _____ Weather Cold. Inst. B.167. Height of inst. 5' 4½ Height of Beacon _____

Horizontal Angles

Station	Face. R.			F.L.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Lighthouse Hill Co	00	00	00	00	00									00	00	00			
Wireless Mast S	35	33	03	32	59									35	33	01	35	32	55
Wireless Mast N	36	27	25	27	26									36	27	26	36	27	19
Mengeang Lt Hse	166	35	14	35	13									166	35	14	166	34	24
R.H. Water Tower.	177	29	46	29	58									177	29	52	177	24	42
Centre of Predictor	324	26	20	07	28									324	16	54			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Lighthouse Hill Co									
Wireless Mast S	×								
Wireless Mast N	×								
Mengeang Lt Hse	×								
R.H. Water Tower.	×								
Centre of Predictor	Distance to Centre					2'	10"		0·94 yards.

Cape Pemberke Lt Hse not visible from Predictor

[redacted]

Height of Predictor from Ground 5' 4½".

G.L. of PREDICTOR 4ft less than G.L. of COMMAND POST REFERENCE Pc.

Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker Dvr Miller Checked by Sgt Stuart

Ole Book No 9.

97

98

ABSTRACT OF ANGLES.

Station C. BEARING PICKET. (M.G.P.)

Date 8 July 43. Time _____ Weather _____ Inst. B'167 Thal. Height of inst. 4' 10" Height of Beacon G.L.

Horizontal Angles

Station	Face. R			F. L		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Sapper Tree Ho.	00	00	00	00	00									00	00	00			
N. WIRELESS MAST	36	32	46	32	41									36	32	44			
R.H. WATER TOWER	180	27	01	27	02									180	27	02			
(Selected)																			
Sapper. Tree Ho.	00	00	00	00	00									00	00	00			
Mangeang. Lt Hse	167	03	25	03	20									167	03	23	166	56	53.
Centre.	257	42	17	43	14									257	42	46			
	Distance		6	Centre			12'	1½"											
Hgt Inst. 4' 10"								4' 0½ yds											

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
N. WIRELESS MAST	+00	38	42	39	08	+00	38	55	
Mangeang. Lt Hse	00	10	40	12	21	−00	11	30	

Obs. Book No 9.

Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker Dr. Miller Checked by Sgt. Stewart

98

99

ABSTRACT OF ANGLES.

Station West End Base.

Date 11 July 43 Time _____ Weather _____ Inst. B167 Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Pomit	00	00	00	00	00									00	00	00			
Beagles Pag.	247	12	25	12	30									247	12	27			

Vertical Angles

Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer Sgm Morgan. Abstracted by Sgm Morgan.

Booker Sgt Lewis Checked by Spr. Stuart.

99

[redacted] 100

ABSTRACT OF ANGLES.

Town & Camp Scheme.

Jail (Peg) [redacted]

Station [redacted]

Date 11th July 43 Time am Weather Inst. B167 Height of inst. Height of Beacon

Horizontal Angles

Vertical Angles JAIL PEG.

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Point D.	00	00	00	00	00									00	00	00												
Cathedral Spire	59	20	42	20	44									59	20	43												
Cinema Res.	61	18	23	18	28									61	18	26												
Beagles	137	13	58	13	54									137	13	54												
N. Wireless Mast	248	14	36	14	40									248	14	38												

Observer Sgt. Morgan. Abstracted by Sgt. Morgan.

Booker Sgt. Morgan. Checked by Sgt. Stuart

Obs Book No 9.

100 [redacted]

[redacted] 44 (101)

ABSTRACT OF ANGLES. Torrow Scheme.

Station Beagles Pt. (Reg)

Date 11th July 43. Time am. Weather Sunny. Inst. B167 Height of inst. Height of Beacon

Horizontal Angles / Vertical Angles

Station	Face. L			F. R		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
Point D.	00	00	00	00	00									00	00	00												
~~[illegible]~~ Jail (Peg)	324	54	27	54	32	(JAIL	PEG)							324	54	30												
N. WIRELESS MAST	262	46	08	46	22									262	46	15												
WEST END of BASE	56	04	03	03	59									56	04	01												

Obs. Book 9.

Observer Sgn. Morgan. Abstracted by Sgn. Morgan.

Booker Sgn. Stewart Checked by Sgt. Stewart

(101) [redacted]

102 117

ABSTRACT OF ANGLES.

TOWN SCHEME.

Station CINEMA RESECTION.

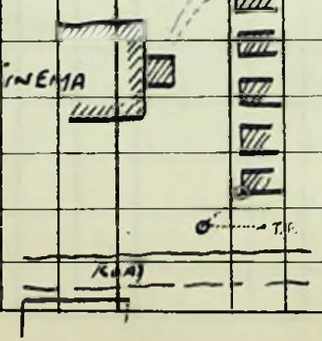
Date 98 Time Dn. Weather Inst. B167. Height of inst. Height of Beacon

Horizontal Angles

Station	Face. R.			F. R		F. L		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
POINT D. Ro.	00	00	00	00	00	00	00	00	00					00	00	00			
MT LOW.	18	37	30	37	24	37	30	37	31					18	37	29			
CORTLEY HILL	47	18	40	18	34	18	36	18	44					47	18	39			
~~WAR MEMORIAL~~	~~81~~	~~01~~	~~24~~	~~01~~	~~18~~	~~01~~	~~18~~	~~01~~	~~16~~					~~81~~	~~01~~	~~19~~			
CATHEDRAL SPIRE	85	00	12	00	06	00	08	00	05					85	00	16			
~~BLACK GOGGLE~~	~~175~~	~~19~~	~~21~~	—		~~19~~	~~16~~	—						~~175~~	~~19~~	~~18~~			
TWO SIDES NE AUX PT.	261	35	50	35	51	—		—						261	35	50			
MT McLOUGHLIN AUX PT.	277	47	54	47	56	48	00	48	00					277	47	58			
(TAIL PEG) ~~WEST END OF CAMP~~	267	24	54	24	51	—		—						267	24	52			
CORNER of HUT.	221	15	17	15	40	—		—						221	15	28			
TELEGRAPH POST	274	42	02	48	20	—		—						274	45	11			

Distance to CORNER of HUT = 20.5 ft 6 yds

—"— to TELEGRAPH POST = 26.3 ft 8.6 yds



Vertical Angles

Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer Spr. Morgan. Abstracted by Spr. Morgan.

Booker Spr. Morgan Spr. Miller Checked by Spr. Stewart

Obs. Book No 9.

102 117

(103)

ABSTRACT OF ANGLES.

CHARLES PT. Satellite.

Station Searchlight.

Date 15 July. 43. Time — Weather — Inst. B167. Height of inst. — Height of Beacon —

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cape Pembroke Lthse.	00	00	00	00	00									00	00	00	00	00	00
Flag-Batty.	228	15	18	15	30									228	15	24	228	33	30
Mengeans Lthse.	299	10	54	11	00									299	10	57	299	12	29
Centre	130	27	13	46	42									130	36	58			
								Distance to Centre									6.0 feet		
																	2 yds.		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

(8)

Observer Sgt. Morgan Abstracted by Sgt. Morgan

Booker Sgt. [illegible] Checked by L/Cpl. Suddaby.

(103)

(104)

ABSTRACT OF ANGLES.

Station Charles Point A.

Date 15 July 43. Time am Weather Cold. Inst. B167 Height of inst. 4' 9½" Height of Beacon 4' 10½"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Pr. Pembroke Lt Hse	00	00	00	00	00									00	00	00			
Battery Pt	60	52	16	52	17									60	52	17			
Base Pt	122	55	52	56	05									122	55	59			
Mengeary Lt Hse	302	58	03	58	02									302	58	03			
								BASE		PEG.									
Charles Pt A	00	00	00	00	00									00	00	00			
Battery Pt Flag	85	55	09	55	13									85	55	11			
		Distance		=		284.46 feet													

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Pr. Pembroke Lt Hse									
Battery Pt	-01	33	04	33	14	-01	33	09	
Base Pt									
Mengeary Lt Hse									
Charles Pt A									
Battery Pt Flag									

Book 9.

Observer Sgt Morgan Abstracted by Sgt Morgan

Booker Sgt Miller Checked by Capt. Suddaby

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ABSTRACT OF ANGLES.

Satellite for Ranges & Bgs.

Station Charles Pt Baky

Date 15/7/43. Time am. Weather cold. Inst. B.167. Height of inst. 5' 0½" Height of Beacon 4' 6"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Pembroke L'Hse.	00	00	00	00	00									00	00	00	00	00	00
Upper Tussac Is.	05	07	18	07	28									05	07	23	05	05	25
Kelly's Point	28	54	46	54	30									28	54	38	28	52	40
Searchlight	45	15	02	15	03									45	15	03			
York Rock Beacon	73	16	55	16	40									73	16	48	73	18	51
Base Pt.	210	36	14	36	39									210	36	28			
Charles Pt A	242	37	07	37	34									242	37	20			
Mengeany L'Hse	302	05	36	05	39									302	05	35	302	05	34
Seal Rock.	343	05	51	05	58									343	05	55	343	06	19
L. Tussac Isl.	355	11	48	11	39									355	11	44	355	10	52
No 1 Gun	54	51	27	51	32									54	51	30			
No 2 Gun	338	40	56	41	00									338	40	58			
Range Finder.	79	54	25	53	47									79	54	06			
	DISTANCE TO			NO 1 GUN									=	73.33 ft			— 24.44 yds		
	—— " ——			NO 2 GUN									=	62.50 ft			20.83 yds		
	—— " ——			RANGE FINDER									=	12.50 ft.			4.16 yds.		

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Pembroke L'Hse.	+00	09	38	08	00	+00	08	49	
Upper Tussac Is.									
Kelly's Point									
Searchlight									
York Rock Beacon									
Base Pt.									
Charles Pt A	+01	28	16	27	27	+01	27	52	
Mengeany L'Hse	+00	08	48	07	27	+00	08	08	
Seal Rock.									
L. Tussac Isl.									
No 1 Gun	-08	08	23	09	08	-08	08	46	Trunnion axis.
No 2 Gun	-06	49	02	49	55	-06	49	29	
Range Finder.	-10	02	09	07	34	-09	34	50	

Book 9

Observer Sh Morgan Abstracted by Sh Morgan.

Booker Sgt Miller Checked by Cpl. Suddaby.

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106

ABSTRACT OF ANGLES.

Station Ordnance Pt Battery (Resection)

Date 4th August Time am. Weather fair Inst. B167. Height of inst. 5' 0" Height of Beacon —

Horizontal Angles

Station	Face. L			F. R		F. L		F. R		F.			F.			Mean Horizontal Angles Observed			Reduced to Centre		
Meneaney Lt Hse.	00	00	00	00	00	00	00	00	00							00	00	00			
Folk Rock Beacon	23	41	12	41	10	—		—								23	41	11			
Cape Pembroke Lt Hse.	37	15	26	15	28	15	28	15	30							37	15	28			
Lapper Hill	180	34	40	34	42	34	39	34	44							180	34	41			
Mt William	190	11	48	11	40	11	54	11	54							190	11	49			
12 O'Clock Aux Pt	261	36	47	36	38	36	49	36	42							261	36	44			
Mt Low	283	13	57	13	47	13	54	13	52							283	13	53			
Charles Pt Leg.	348	05	07	04	56	—		—								348	05	02			
6" Gun.	306	55	13	56	29	—		—								306	55	51			
Range Finder.	214	36	35	36	29	—		—								214	36	32			

Distance to 6" Gun. 31 ft 10½ ins

— " — to Range Finder 43 ft 6 ins

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Meneaney Lt Hse.	00	02	20	04	12	+ 00	03	16	
Folk Rock Beacon	00	20	04	20	55	− 00	20	30	
Cape Pembroke Lt Hse.	00	04	45	03	55	+ 00	04	20	
Lapper Hill	00	57	25	57	00	+ 00	57	13	
Mt William	—						—		
12 O'Clock Aux Pt	—						—		
Mt Low	02	33	13	32	42	+ 02	32	58	
Charles Pt Leg.	00	00	25	00	10	− 00	00	18	G.L.
6" Gun.	04	23	00	23	00	−04	23	00	Trunnion Axis
Range Finder.	00	40	00	38	25	+00	39	13	Trunnion Axis

Observer Spr. J.a Morgan. Abstracted by Spr. J.a Morgan.

Booker Spr. J.a Morgan. Checked by Spr. P J Stuart

BOOK 12

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(107)

ABSTRACT OF ANGLES.

Station Canopus Battery.

Date 3rd August. Time am Weather Inst. B167 Height of inst. 5' 0" Height of Beacon 3' 3"

Horizontal Angles / Vertical Angles

Station	Face. R			F. L		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.			Mean V. A's			Sketch of Beacon
Cape Pembroke.	00	00	00	00	00									00	00	00				00	00		—			00	00	—	
Wolf Rocks Centre.	71	40	38	40	57									71	40	45													
Tinnes Lt. Rock Centre.	141	23	34	21	22									141	22 ~~23~~	28				Airing	Pc.								
Canopus Δ	183	56	32	56	44									183	56	38				00	05	42	10	00		+ 00	07	51	
Telegraph Pole.	229	28	51	29	02									229	28	56													
Mengcam Lt.	318	13	22	13	17									318	13	20				—			—			—			
																				00	04	20	04	54		- 00	04	42	
No 2 Gun	04	00	37	00	38									04	00	38				01	22	47	18	17		- 01	20	32	Trunnion axis
No 1 Gun.	60	16	04	16	31									60	16	18				00	48	15	46	25		- 00	47	20	Trunnion axis
Range finder.	149	29	47	22	53									149	26	20				01	30	05	34	56		+ 01	32	31.	Trunnion axis

DISTANCE to No 2 GUN = 96·5 feet = 32·17 yards.
— " — No 1 GUN = 142·5 feet 47·5 yards.
— " — RANGE FINDER = 22' 0" 7·33 yards.

NOTE:- FOR COMPN. OF SLANT RANGES, CONSIDER VERTS AS FROM R. F.
WRC

Observer Spr. La. Morgan. Abstracted by Spr. La. Morgan RE.

Booker Dr. Dron. Checked by Sgt Stuart RE.

Book (11)

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(108)

ABSTRACT OF ANGLES.

Station Canopus A.

Date 3 August Time _____ Weather _____ Inst. B167. Height of inst. 4' 11" Height of Beacon 6' 4"

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cape Pembroke.	00	10	00	00	00									00	00	00			
Batty Pt	03	49	43	49	46									03	49	44			
Cathedral Spire	186	50	35	50	40									186	50	38			
Telegraph Pole.	307	~~54~~ 51	45	~~55~~ 51	56									307	~~54~~ 51	~~38~~ 50			

Distance to Telegraph Pole. 287.4 feet } = 95.80 yds. MEAN 95 85 yds.
87.7 metres } 95.91 yds.

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
Cape Pembroke.									
Batty Pt	- 00	14	36	14	50	- 00	14	43	↖
Cathedral Spire									
Telegraph Pole.									

Observer Spr. Morgan. Abstracted by Spr Morgan. Lt.

Booker Spr. Dolan. Checked by Spr. Stuart RE.

Book (11)

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ABSTRACT OF ANGLES.

Wolf Rocks Intersection

Station Sapper Hill

Date – Time – Weather – Inst. – Height of inst. – Height of Beacon –

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Cortley Ro.	00	00	00	00	00									00	00	00			
Canopus.	—				Previous			Ro.						41	20	47			
Wolf Rocks (North	69	01	12	—										69	01	12			
Wolf Rocks (Centre	69	07	42	07	24									69	07	33			
Wolf Rocks (South.	69	16	42		—									69	16	42			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer A. Morgan. Abstracted by A. Morgan.

Booker — Checked by Stuart Hse R.E.

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ABSTRACT OF ANGLES. Wolf Rocks Intersection

Station Elgin Cove. A

Date 13 July 43. Time _____ Weather _____ Inst. _____ Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Carn Olmo	00	00	00	00	00									00	00	00			
Pembroke Lighthouse.	25	13	28	13	25									25	13	27			
Wolf Rock North	71	18	09	17	58									71	18	03			
Wolf Rock Centre	71	32	26	32	33									71	32	30			
Wolf Rock South.	71	51	09	51	06									71	51	08			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Ob. Book No 9.

Observer [illegible] Abstracted by [illegible]

Booker _____ Checked by [illegible]

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ABSTRACT OF ANGLES. Wolf Rocks Intersection

Station Cape Pembroke Lt Hse.

Date 6 July 43 Time _____ Weather _____ Inst. _____ Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Canopus Ro	00	00	00	+										00	00	00	00	00	00
	301	49	28	-										301	49	28	301	49	22
Wolf Rocks	300	54	11	54	15									300	54	13	300	54	15
	300	20	10	-										300	20	10	300	20	13.
	01	49	38	-										52	12	18		—	
Centre of Lt Hse Tangents	102	34	58	-															

Distance to Circumference of Tower = 1' 3 3/4"

Circumference 29 ft.

Distance to Centre of Tower Computed: 5.92 ft.

Vertical Angles

Face R.			F. L.			Mean V. A's			Sketch of Beacon
South									
Centre									
North									

Obs Book No 9

Observer Sgt Morgan. Abstracted by Sgt. Morgan.

Booker _____ Copy Checked by Cpl. Stuart.

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ABSTRACT OF ANGLES.

Wolf Rock Intersection

Station Canopus. A

Date – Time – Weather – Inst. – Height of inst. – Height of Beacon –

Horizontal Angles

Station	Face.			F.		F.		F.		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
Supplicat.	00	00	00	00	00									00	00	00			
Wolf Rock North	251	25	34	25	57									251	25	45			
Wolf Rock Centre	251	59	45	252 05	12									252	02	29			
Wolf Rock South	253	58	50	253 05	57									253	32	24			
Elgin Cove.	316	07	43	07	51									316	07	47			

Vertical Angles

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon

Observer [illegible] Abstracted by [illegible]

Booker – Copy Checked by Mr. Stuart.

Ob. Book No 9

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YORK ROCK — ABSTRACT OF ANGLES. BEACON. INTERSECTION.

Station _____

Date _____ Time _____ Weather _____ Inst. _____ Height of inst. _____ Height of Beacon _____

Horizontal Angles

Station	Face.			F.		F.	F.	F.	F.	Mean Horizontal Angles Observed			Reduced to Centre
CHARLES POINT	BATTERY RESECTION PO.												
Cape Pembroke	00	00	00	00	00					00	00	00	
Canopus	62	02	46	02	47					62	02	47	✓
YORK RK BEN.	70	46	51	46	53					70	46	52	✓
MT LOW	Bty. △							Ht. of Inst.		4'	4"		✓
Mengeans	00	00	00	00	00					00	00	00	
Lebunns	01	40	05	40	13					01	40	09	✓
York RK Ben	55	39	32	39	30					55	39	31	✓
R. A.													

Station	Face R.			F. L.		Mean V. A's			Sketch of Beacon
R. A.	07	50	44	49	00	− 07	49	52	4' 1" above Trunnion Axis. ✓

GRID NORTH Peg is 49' 9" from MT Low Bty △ "
GRID WEST --- " 84' 6" ——— " ——— ✓
GRID SOUTH --- " 45' 4" ——— " ——— ✓

No. Book II

Observer J. Morgan Abstracted by J. Morgan.

Booker [illegible] Checked by W Suddaby Capt. RE.

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114

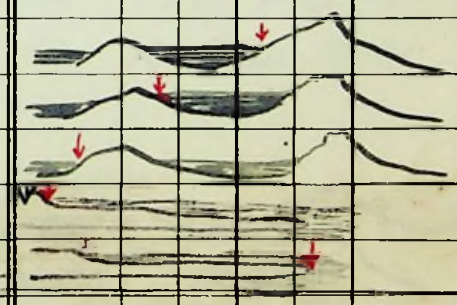
ABSTRACT OF ANGLES. RESECTION

Date 5th Sept 43" Time — Weather fine Inst. B 67 Height of inst. 4' 11½" Height of Beacon

Station MTLOW. G.L. RECEIVER (LEG

Horizontal Angles / Vertical Angles

Station	Face. R			F. L		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre			Face R.			F. L.		Mean V. A's			Sketch of Beacon
CANOPUS	00	00	00	00	00	00	00	00	00					00	00	00				01	08	07	08	27	−01	08	17	
CATHEDRAL SPIRE	42	46	12	46	14	46	04	46	16					42	46	12												
TWO SISTERS S.W. CAIRN	83	53	44	53	44	53	46	53	46					83	53	45												
PEAT RIDGE	238	31	33	31	38	31	36	31	33					238	31	35				03	02	48	04	20	−03	03	34	
KIDNEY ISLAND	276	37	13	37	11	37	17	37	23					276	37	16												
MENGEARY Lt HSE	300	56	38	56	39	56	33	56	46					300	56	39				01	16	25	17	44	−01	17	05	Top.
PEMBROKE Lt HSE																				00	52	55	54	22	−00	53	39	Top.
CHARLES Pt RES.	326	37	13	37	12	37	11	37	21					326	37	14				02	09	40	11	30	−02	10	35	G.L.
VIEW LEFT of MT WILLIAM														63	04	46												
VIEW RIGHT of SAPPER HILL.														55	04	46												
VIEW LEFT of SAPPER HILL.														49	40	46												
VIEW of SEA ~~WEST~~ of TIP of BERKLEY SOUND														188	59	46												
TIP of PENt BERKLEY SOUND														215	11	06												



Observer Sgt Morgan Abstracted by Sgt. Morgan.

Booker Sgt. Stewart. Checked by Mr Stewart RE.

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ABSTRACT OF ANGLES.

CANOPUS △
CANOPUS BATTERY PEG.

Station

Date _____ Time _____ Weather _____ Inst. _____ Height of inst. _____ Height of Beacon _____

CANOPUS △.

Horizontal Angles

Station	Face. L			F. R		F. R		F. L		F.		F.		Mean Horizontal Angles Observed			Reduced to Centre		
MT LON BHN	00	00	00	00	00	00	00	00	00					00	00	00			
YORK ROCK BEACON	15	41	38	41	44	41	51	41	48					15	41	45			
C. PEMBROKE LH HSE	93	42	23	42	20	42	40	42	30					93	42	28			
Obs Book 11 p. 9																			
CANOPUS BATTERY PEG.				Height of Instrument										4' 11½"					
No 1 GUN														—					
No 2 GUN.														—					
Centre of Trunnion Axis				Height of No 1 GUN above PLATFORM													= 4' 0"		
Centre of Trunnion Axis				Height of NO 2 GUN above PLATFORM													4' 0¾"		

Vertical Angles

Station	Face R.			F. L.			Mean V. A's			Sketch of Beacon
No 1 GUN	00	52	46	60	25	-00	57	35		Trunnion Axis
No 2 GUN.	01	23	37	24	17	-01	23	57		Trunnion Axis.

Obs Book 11 p. 10

Observer Spr Morgan Abstracted by Spr Morgan.

Booker Spr Morgan. Checked by W Suddale Capt. RE.

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