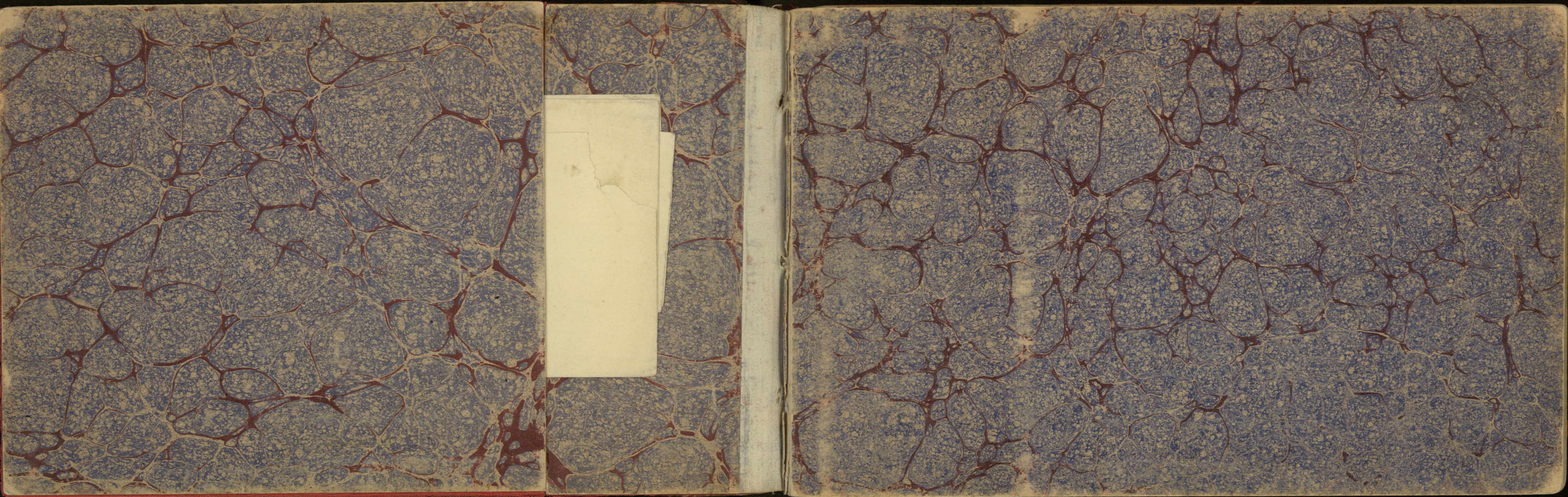


1

FIELDBOOK.

A.

H. A. DEPT



From 17K to 18K 247.2
 18 " 19 " 1365.3
 19 " " fence 122.5
 19 " " 20K 1502.2
 20 " " fence 583.0
 20 " " Crypt fence 656.2
 20 " " 21K 880.8
 21 " " fence 189.6
 21 " " 22K 1280.0
 22 " " 23K 701.5
 23 " " 24 " 798.2
 24 " " 25 " 351.7
 25 " " 26 " 631.2
 26 " " 27 " 541.6
 27 " " Int^mC 210.0

21K to fence 561.0
 21 " " 28K 693.1
 28 " " 29 " 899.9
 29 " " 30 " 236.0
 30 " " 31 " 571.7
 31 " " 32 " 863.5
 32 " " 34 " 302.8
 34 " " fence 331.0
 34 " " 35K 939.0
 35 " " 36 " 278.1
 36 " " 29 " 706.0
 36 " " fence 577.1
 36 " " 30K 578.8

32K to 33K 720.1
 33 " " 37 " 469.0

From 37K to 38K 132.0
 38 " " 32 " 993.2

311 to 39K 423.5
 39K " 1 L. 988.5
 1 L " Traverse + Church 253.0
 Fence from 1st peg on road 84.7
 to 1st peg traverse 453.3
 2nd " " 743.6
 from 2nd " to fence 686.2
 - 2nd " + road to fence 795.2
 to 3rd " traverse 1294.6
 " 4th " " 457.0

from 1 L to fence 26.4
 " 1 " " 2 L 773.9
 2 " " fence 84.0
 2 " " " + road 158.0
 2 " " 3 L 843.4
 3 " " 4 " 581.7
 4 " " 5 " 780.0
 5 " " fence 507.0
 5 " " " + road 637.0
 5 " " 6 L 739.5
 6 " " fence 167.1
 6 " " " + road 382.2
 6 " " " in paddock 549.0
 6 " " 7 L 1441.1
 7 " " 8 " 1048.2
 8 " " 9 " 1371.5

From 9L to 10L 563.2
 10 " " fence 18.5
 10 " " 11 L 678.5
 11 " " fence 125.1
 11 " " 12 L 887.9
 12 " " 13 " 1465.0
 13 " " fence 880.4
 13 " " 14 L 1238.9
 14 " " 15 L 1112.9

Thermometer at:-

K17 - 76	K32 - 72	L1 - 76
18 - 76	34 - 72	2 - 76
19 - 76	35 - 72	3 - 78
20 - 76	36 - 72	4 - 80
21 - 76	29 - 74	5 - 80
22 - 78	30 - 74	6 - 80
23 - 78	32 - 74	7 - 80
24 - 78	33 - 74	8 - 80
25 - 76	37 - 74	9 - 78
26 - 76	38 - 74	10 - 78
27 - 74	32 - 74	11 - 78
Int ^m C - 74	31 - 72	12 - 80
K28 - 74	K39 - 72	13 - 80
29 - 74	Christias	14 - 78
30 - 72	1 - 72	15 - 78
31 - 72	2 - 74	
32 - 72	3 - 76	
	4 - 76	

Spikes at

K 17 { Reaming of
 18 { K1 to K2
 20 {
 22 { From
 23 { K1 to face 326.2
 24 { K1 to K2 356.4
 29
 32
 33

326.2
 1957
 196
 153

326.2 K1 to face } 72
 356.4 K1 to 2 }

L. 4
 5
 7
 9
 11
 12
 13
 15

Chainage from

Thermometer at -

Iron Spikes at -

Peg 311 on road to fence	117.0
311 to 1 K	443.5
1 K ✓ fence	426.0
1 K ✓ 2 K	456.3
2 K ✓ fence	941.0
2 K ✓ 3 K	1017.5
3 K ✓ 4 K	676.8
4 K ✓ 5 K	670.5
5 K ✓ 6 K	658.5
6 K to fence at road	436.5
fence to fence x road	129.2
Peg 6 K to 7 K	668.7
7 K to 8 K	730.6
8 K ✓ fence	51.4
8 K ✓ 9 K	888.2
9 K ✓ wire fence	165.5
9 K ✓ split "	780.7
9 K ✓ 10 K	1224.8
10 K ✓ fence	564.2
10 K ✓ 11 K	1010.2
11 K ✓ fence	82.8
11 K ✓ 12 K	1184.0
12 K ✓ 13 K	1618.5
13 K ✓ 14 K	649.2
14 K ✓ 15 K	1143.7
15 K ✓ 16 K	348.8
16 K ✓ 17 K	1005.8

356.3

311	90
1 K	90
2 K	90
3 K	90
4 K	90
5 K	90
6 K	92
7 K	92
8 K	92
9 K	92
10 K	92
11 K	94
12 K	94
13 K	94
14 K	94
15 K	94
16 K	94
17 K	94

356.3
 2137.8
 2108.8
 23516

5 K	292.7
6 K	301
9 K	
10 K	671.6
13 K	446
14 K	
17 K	

266
 267
 292.7
 2137.8
 2108.8
 23516
 564.6
 51.4
 671.6
 610.5
 51.0
 671.6
 406.0
 406.0
 402.2
 402.2
 402.2

1.202
 1.204
 8.5
 2404
 601
 250.5
 152
 15
 302

5.1.4W
 1.002
 2.004
 501
 1.24
 2.48
 1.5
 249.5

3-498
 4-5
 5-74

102
 127
 132
 177
 89
 307

46
 13
 32
 41
 31
 79

Quarry
 Avonlie
 Church

48502



FIELD NOTES OF SURVEYS

from the to the

Transmitted to the District Surveyor at

with my letter dated 24-1-10 on Page 1

(Signature)

C.R. Scrivener
 (According to F.B. Register)

St 5770

395
 158
 995
 845

EXTRACT FROM DEPARTMENTAL SURVEY REGULATIONS.

FIELD NOTES OF SURVEY.

Field-books supplied by the Department shall be used.
 As a general rule one field-book should be completed before another is commenced. Notes shall be entered consecutively according to dates of surveys.
 Within six months after completion of the book the index shall be filled in, and the book forwarded to the District Surveyor under registered post, accompanied by a letter. The inside cover of book to be endorsed "Field notes of Surveys made by me between the and the Transmitted to the District Surveyor at with my letter of the"
 (To be signed).
 As the field-notes are the primary records of survey, are accepted as evidence in a Court of Law, and are for departmental reference, it is of importance that they should be precise and complete, indexed for purposes of ready reference, and kept in a neat and professional manner.
 The diagram form of keeping field-notes is now generally adopted. Those Surveyors who have been accustomed to the old-fashioned form of record, and prefer it, should also provide a diagram in illustration. Field-notes should be so perspicuous that a qualified draftsman may be enabled to prepare a plan therefrom without undue loss of time in investigation.
 Field-books shall contain the notes actually taken in the field, not copies merely, and it is desirable that they shall be recorded in ink.
 In the event of alteration of a mistake, there should be no erasure, but the erroneous entry should be neatly struck through, and the correction written above.
 Date of survey, portion No., parish, county, applicant's name, and purpose of survey; registration Nos. (e.g., for conditional purchase, homestead lease, special lease, &c.), shall be first entered in each case; and the number and date of letter transmitting plan shall be added in due course.
 The initial line of every survey, and azimuth adopted, shall be clearly indicated.
 Bearings shall be clearly shown, with particulars of repetition of angles.
 Lengths shall be entered as read, corrections for hypotenusal measurement and temperature shall be noted, and the lengths deduced therefrom shall be distinctly indicated.
 Whenever there may be a close in the measurement of an area, or in a feature survey, or road survey, the closing angle shall be observed and noted.
 References to corner trees may either be shown on diagram or in tabular form referred to in diagram by alphabetical letters.
 Features shall be shown comprehensively, so that a draftsman may be enabled to represent the general aspect of the country.
 On measured lines, the intersections of watercourses, summits of ranges, other natural features, fences, &c., &c., shall be correctly noted; lines reclaimed should be so specified. Position and state of preservation of old marks shall be carefully noted.
 Intersections, offsets, and widths of watercourses shall be shown in the traverse of features. It is not sufficient to draw them without noting distances.
 The positions of improvements shall be clearly indicated; particulars of ownership, description, and value shall be entered, and also the dates when the improvements were effected.
 Full particulars shall be stated as to the character of soil and timber, grazing or agricultural capabilities, and the geological formation of the country.
 The Surveyor shall take such notes whilst in the field as will enable him in his letter transmitting the plan to report precisely in any case what natural boundaries or parts thereof might be exempted from the condition of fencing.
 Notes shall be made of the estimated capital and rental values of land. These may be specially useful to the Surveyor when called upon to give evidence in Court.

1.45
 7.05
 9.15
 1.45
 1.45
 2.99
 299.05
 291.6

INDEX.

Page	Particulars of Survey.	Date.
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- 16 to 17 Observation of angles of City Triangles
- 11 Comparison of Hay Standard with Canberra Standard and Value of big Stadia wires
- 12 Observations Murly and Kurralong at Sheaff's stry 302
- 13 Observations West School and Intersection
- 14 Levels from Percival's 1815 spike near Hayes to Sur Sheaffes
- " Intd peg C on Summit of Brassys Hill
- 17 Contours 1830. 1835. 1840. 1845 to from Canberra Road Westerly to Sur Sheaffes
- 31 traverse from Molonglo River northerly
- 32 to Contours about hill Southerly
- 35 from Vernon trig' station 1850. 1855. 1860. 1865. 1870
- 36 Contours 1850. 1855 on hill on Canberra Rd immediately South of Church
- " " Contours 1870. 1875 about Canberra Church
- 38 Contours 1850. 1855. 1860 to 1865 from Canberra Road South of Church to Sur. Sheaffes
- " " traverse running North from the Molonglo River through Acton.
- 49 Observation of Angles at Reef Δ between Narrabundah and Stram

NOTE.—In Field Notes of Survey there should be no erasures; any erroneous entry should be struck through, and the correct particulars written above it. The date of commencement and completion of the Survey should be noted. As soon as the book is filled, and when plans are completed, and reports have been transmitted, this Field Book, with the Index completed, and signed and dated by the Surveyor, should be forwarded under cover of a letter or memorandum to the Surveyor General. It is desirable that leaves be not taken from the book.

Check length levelling Staves

24. 1. 10

Staff	Dist. run	Dist. error	Dist. error
↑ Dep Lands 25	5 ft .00	9.50 + .0015	14.00 + .0005
$\frac{\Delta}{H.A.}$ 13	6 ft -.0000	114 -.00005	16.00 - .0005
$\frac{\Delta}{H.A.}$ 10	6.50 + .001	12.00 + .00057	17.00 + .0015

At Intersection
between Amisic and
Camp Hill

Intersection
Amisic and Camp Hill

191.42.58	303	47.56
135.51.54	303	47.426
79.25.36		47.448
203.13.20		594
147.11.18		594
127.1.19		303.47.50
$\frac{\Delta}{H.A.}$ 10	17	44.43
	320.	52.33

At Intersection
between Mugga Mugga
& Camp Hill

Between Mugga Mugga & Camp Hill

147.1.19		
210.49.6	123	47.47
34.36.46		47.40
338.24.40		47.54
338.24.40		123.47.49
102.12.8		107.4.43
		320.52.32

At Camp
Intro to Amisic

Intersection	Gravel	Mugga Mugga	Red hill
300.12.35	300.35' 8"	353.50' 40"	27.42.32
	28 5.10	81 20.55	115 12.50
	116 35.30	168 50.58	202.43.2
	203 35.50	256 21.22	280 13.29
	290 36.20	343 51.38	17 43.38
	18.6.5	71 22.12	105 14.5
	0.22.23	53.38 5	87 29.57
	42 38	53 38 8	30 18
	48	58 20	86 30 12
	51	34	30 27
	27		9 09
	0.22.38	53.38 16	87.30.15
	123 35 3	123 35 6	123 35 83
	123 57 41	177 13 22	211 5 18

At new str. Camp Hill

Int.?	S. Shale	Sullivan	Vernon
105.14.5	72.50.27	122.7.41	163.8.33
	316.45.3	6.1.34	53.2.57
	84.34.19	249.56.13	296.57.34
	328.28.35	133.50.36	180.51.54
	212.23.0	17.45.5	64.46.35
	147.36.22	261.39.39	308.40.53
	147.36.30	196.53.36?	243.54.28
	" 36	" 1	24
	" 41	" 16	37
	" 25	" 2	20
	" 25	" 11	41
	" 25	" 4	18
	147.36.30	196.53.12	243.54.28
	123.35.3	123.35.3	123.35.3
	271.11.33	320.28.15	7.29.31

At new strⁿ Camp hill
now Kurrageong 3

Intro

308 40.53

Ainslie A

40.42 48
348 2 51
295 22 51
242 42 41
190 2 39
137 22 39

Russell

76 0 45
23 20 38
330 40 47
278 0 43
225 20.28
172 40 31

At new strⁿ Camp hill
between Russell
and Intⁿ

172.40 31
128 40 50
6) 316.0.19
52.40.3
70 54 59
123 35 2

appears to be
in error

272 1 55
272 2 56
272 2 13
272 2 54
272 1 56
272 2 11

156.43
76 17
35 48

At Intersection

Ainslie A

15.34.11
36.56.46
271 27 33
145 58.28
20 29 15
255. 0 10
121 31.9

Gravel

122.57 42
357 28 30
231 59 13
196 30 8
351 1.7
215 31 46
107 23 32

Redhill?

250.4.48
124 35 45
359 6 22
233 37 26
108 8 20
342 39 12
234. 30 38

21 22 35
21 22 45
43
53
44
43

107 23 36
17 4 43
124 28 19

234. 30 50
17 4 43
251 35 33

219

4 at At Intersection

Ainslie A

162 35.12

Kurrageong
New str. Camp hill

89 9 38
56 30 12
343 0 40
130 21 42
197 42 35
24 12 45
286 30.26
286 30 28
26
10

Rottenbury

130. 0' 7"
23 57.16
171 12.9
65. 3.20
327 20 55
21 4
20 53
21 4
20 53

At Intersection
(between Red Hill
and
New str. Camp hill)

65. 3. 20
197 0 47
6) 311 57 27
51 59 34
251 35 29

At Gravel

between
Camp hill
and
Russell

6. 18. 29 67 15.48
73 34 17 48
140 50 24 19
208 5 24 61
162 36 41 26
229 52 27 41
297 8 15 63
67. 16 40
33 57 41
11 13 21

now Kurrageong
At Camp hill new strⁿ

between Intⁿ
and
Quarry

254. 31. 36
88 36 35
176 47 20
339. 3 76
1164. 31. 40
194. 5. 17
123 35 3
317 40 20

At Camp hill new strⁿ
between Sullivan & Dinslie

339 3 16
24. 29. 48
69 56 40
450. 53 24
75 8 54

At Gravel

Int'n	Red Hill	New Stn Camp Hill	Vet'nah
275, 28, 57	239, 7, 7	274, 58, 13	305, 51, 34
	269, 30, 7	305, 21, 2	336, 14, 27
	299, 57, 46	335, 43, 47	6, 37, 12
	330, 15, 45	186, 6, 27	217, 0, 0
	180, 38, 40	276, 29, 21	247, 23, 0
	323, 38, 10	359, 29, 16	230, 22, 37
	33	28	283, 22, 53
	38, 19	20	45
	33, 0	15	30, 27
	40, 3	21	60

at Quarry	Kernon	Ainslie	Russell
323, 38, 27	97, 11, 35	111, 10, 22	149, 45, 14
304, 28, 19	80, 5, 2	64, 3, 58	102, 38, 58
268, 5, 46	182, 58, 30	196, 57, 19	235, 82, 18
	135, 57, 50	149, 50, 49	312, 53, 28
	184, 57, 16	274, 18, 36	" 44
	" 21	" 48	" 44
	14	32	20
	16	32	

at Quarry

Sullivan	Kernon	Ainslie	Russell
21, 49, 2	97, 11, 35	111, 10, 22	149, 45, 14
334, 42, 35	80, 5, 2	64, 3, 58	102, 38, 58
287, 36, 12	182, 58, 30	196, 57, 19	235, 82, 18
60, 29, 34	135, 57, 50	149, 50, 49	312, 53, 28
184, 57, 16	260, 19, 49	274, 18, 36	" 44
" 21	" 48	" 44	" 44
14	32	21	20
16	32	31	

at Quarry	Kernon	Ainslie	Russell
184, 57, 17	260, 19, 40	274, 18, 33	312, 53, 28
137, 46, 29	137, 40, 29	147, 40, 29	157, 40, 29
322, 37, 46	38, 0, 9	461, 59, 2	90, 83, 57

at Quarry
between Johnson X Sheffer Str

357, 42, 37
59, 30, 37
524, 148, 0
40, 18, 0

38, 0, 4
357, 42, 9

6 At Sullivan Spurfom Black Mount?

new str Camp Hill	Red Hill	Shale	Russell	Quarry
189, 10, 21	165, 3, 44	197, 4, 7	105, 25, 41	141, 19, 34
	167, 13, 0	199, 13, 53	107, 35, 2	143, 29, 2
	169, 22, 24	165, 29, 16	109, 44, 34	+ + - - - 20
	135, 37, 53	131, 44, 48	75, 59, 57	78, 9, 47
	101, 53, 20	133, 54, 40	42, 15, 26	80, 19, 21
	104, 3, 20	55, 44, 46	44, 25, 9	2, 9, 13
	25, 53, 23	51, 42, 42	300, 77, 20	28
	26	42	326, 15, 20	50
	22	51	37	34
	19	53	23	
	23		22	
	33			
	25, 53, 24	55, 44, 46	325, 15, 26	2° 9' 31"
	140, 28, 15	140, 28, 15	140, 28, 15	142, 28, 15
	166, 21, 39	196, 13, 1	166, 48, 41	142, 37, 46

at Sullivan
between Quarry + Sheffer Str
260, 18, 21
303, 28, 9
166, 36, 44
209, 45, 19
43, 8, 42
142, 37, 28
185, 46, 28

Observations during
Windy weather
N. W strong

At Russell

Sullivan	Ainslie	Red Hill	Kernon	Camp Hill
106, 13, 34	179, 32, 40	54, 50, 36	276, 13	96, 15, 58
	128, 10, 0	3, 27, 47		60, 27, 34
	76, 47, 0	312, 4, 57		24, 39, 3
	205, 23, 55	80, 41, 55		
	169, 35, 34	44, 53, 14		
	133, 46, 56	9, 4, 35		
	73, 19, 6	308, 37, 2	324, 11, 7	
	24	11	324, 19, 36	
	13	4	4, 11, 29	
	4	16		
	36	1		
	22			
	73, 19, 17	308, 37, 6	324, 11, 24	
	288, 43, 47	286, 43, 41	286, 43, 41	
	0, 2, 58	235, 20, 47	250, 55, 5	

9 at Red hill

between new st^o and Red Hill
Camp Hill

31.5 20 40 30 24
71 35 44 40 20 19
152 35 38 40 20 5

27 4 5 4-6 (6) 243 0 26
40" 30' 4"
31 0 6 18
17 5 37 Sutr
7 35 22

between new st^o Camp Hill and Ainslie

94 5 46 (a. 12. 55)
103. 47. 32
112 29 2 6) 19. 23. 16
31 5 18
34 19 11 Ainslie

between Sullivan and new st^o Camp Hill

293 29. 2
67. 39. 37 (6) 268. 21. 32
201 80 41 44-43. 365

between new st^o Camp Hill & Mugga

21. 60. 35
38. 97. 28
236 3 48
6) 214 13 13
175 42. 12
156 47 30 Mugga

between Mugga and

39 25 22
206. 33. 4
13 40 55 6) 334. 35 33
~~55 35 33~~
55 42 35. 5
168 47 30
212. 30. 6A

between Shale and new st^o Camp Hill

285 0 23 261. 4. 12
264 34 12
127 1 31 6) 452. 6. 68
75. 21. 10
31 5 18 Slab
315 44 8

between new Camp Hill & Russell

320 2 50
344 18 15
32. 48. 64 6) 145. 31. 59
105 34 45
24 15 20
31 5 18
55 20 38

between Sullivan & Russell

105 34 49
132. 31. 37 233 43. 39
339 28 28 6) 413
68 59 55
68 58 56. 5
346 21 55

between new Camp Hill and Gravel

159 28 28
330. 32. 15
141 36 8 6) 242. 7. 40
57. 1. 17
30 5 18
88 6 38

between latⁿ and Gravel

141 36 8
11 3 43
80 43 55
250 17 44
329 41. 36
16 31 17
71 35 22
88 6 29 Gravel

between Shale and Vernon

147. 24. 43
332 33 39
34 16 16
219 25 22
3 185° 9. 0
61. 43. 0
315 44 8
1727 8 Vernon

between Vernon & Russell

193 40 55
307. 21. 24
241 1 54
293 40 30
287 20 52
37 53 30
17 37 8
55 20 38 Russell

10 at Shale

between Vernon & Red Hill

4 19
130. 32. 8
276 0 8
88 21 35
168 38 46
6) 516. 34. 26
86 5 44. 5
40 35 19
135 44 3 Red Hill

between Sullivan & Vernon

156 28 45
290 3 58 6) 200 36. 53
267 14 45 33. 25. 19
7 10 38 16 13 19
49 38 19 Vernon

between Sullivan & Ainslie

153. 44. 34
192 21 18
269 35 20
205 25. 30 6) 231 40. 56
38 36 49. 3
16 13 1
84 49 50 to Ainslie
16. 13

between Camp Hill new st^o and Red Hill

205. 25. 30
249 58 24
339 3 42
292 41. 17
6) 267 15 47
44 32 38
91 11 33
135 44 11 Red Hill

between Painter & Ainslie

124. 41. 17
107 15 26 6) 522 34. 3
87. 5. 40
327 0 44 10 to Painter

220. 2. 50
344 18 2
241 1 6A

at Red hills
Red hills Camp, 17th Feb 02

Stadia wires 6" T & S. Theodolite Wiesner

Instn 299.8 ft from staff Lower wire 5.05 Centre 6.5 Upper 7.25
Sta. = 1.45 between each pair wires
Constant +1.2 = f+c

Stadia readings should be multiplied by 1.03

Thus. - 5.05 + 7.95 = 2.90 x 1.03 = 298.7
+ 1.2 = 299.9 while true dist is 299.8

Standard since altered being now .135
of an inch longer
and therefore now only .133 shorter than Hay standard

Comparison of standard laid down
with Hay 5 chain band which is assumed
to be standard length at 58 $\frac{1}{2}$ degrees Fahr^t
with pull of ten pounds wholly supported.

Hay band with 10 lb pull 85 $\frac{1}{2}$ temp on standard was .8 of
an inch long supported at each 50 lbs
under same strain and temp but supported
at 0.50. 100. 150. 200. 250. 300. 400. 450 500 The band was
.675 too long

If x = Sag in 50 lbs
then $10x$ = Sag when supported at 50 lb intervals
and $6x + 16x$ = Sag in 2nd case

$\therefore 6x + 22x = 10x = .8 - .675$

or $12x = .125$ inch

$x = .0104$

$10x = .104$

Hence at 85 $\frac{1}{2}$ Hay band is .8 + .104 or .904 longer
than standard laid down.

Diff temp 85 - 58.5 = 26.5 $\frac{1}{2}$ assuming .015 for 5 $\frac{1}{2}$
chs for 5 $\frac{1}{2}$ correct^{ed} for temp is .0795 $\frac{1}{2}$ = .636 in

And .904 - ~~.795~~ = ^{.268} represents diff between
Hay standard and Canberra standard laid
down from Invar band - Canberra standard
is ^{.268} of an inch short.

12 at Shearles trav str 302

Between Murty
and Vernon

89.37.28
119 54.17
180 27.33 | 181 40.34
91 18 2 | 30 16.46

Between
Murty and
Gravel

18 2 13.57
320 .59.28
3 | 138 45 36 ?
46 15.172

Between Anislie
and Vernon

320 49.28
46.52.23
132 55.72
4 | 172 05 54
42 58 55
43. 1.285

Between Vernon
and Quarry

80.18.2
136.27.18
226 45.52
182 13 52 | 6) 270.55.50
45.9.18
177 42.9
132 32.51

8 12.46 Murty
135 56 48 ved
132 57 27
43 1 26

at Camphill nowsh Kurrajong

Infⁿ

317.53.36

Iron

338.55.23
21.19.2
75 42.43
124 6 4

21.1.47
2 1
2 11
1 49

21.1.57
123 35 3
144 37 0

West School

6.17.1
54 46 32
103 4 15
151 27.33

48 23 35
" 31
" 43
18

48.23.32
123 35 3
171 58 35

Between Intⁿ
and Junction Rd

331 27.33
359.49.16
28 10 44

4) 56.43.11
14 10 48
123 35 3
137.45.51

At W. School

between Iron & Camp Hill road
 48. 31. 9
 248 56 58
 89 22 53
 1120 51 44
 280 12. 56
 351 58 35
 71 45 39

Kurrajong
Between Camp Hill road & Iron

22 8 16
 272 51. 13 430 42 57
 107 40 44
 351 58 35
 33 30 10
 89. 19 19

Between Bald & Camp Hill road

69. 22 53
 202. 8. 16
 4 112 45 23
 28 11. 21
 351 58 35
 323 47 114

Kurrajong
Between Camp Hill road & Junction

92 57 13
 261. 31. 14 168 40. 1
 42 10. 0
 351 58 35
 340 8 35

Kurrajong At Intersection

between Iron & W. School

124° 47' 20
 34 0 14 19
 121 41 36
 47 1076 54. 14
 269. 13. 33
 303 31 3
 212 48 36

between W. School and Camp Hill road Kurrajong

277 30 40
 329. 19. 47
 124 47 16
 207. 26. 36
 56 49 9
 303 31 3
 281 45 54

between W. School and Red Hills

304 47. 16
 304 26. 25
 304 5 41
 1020
 1359 18. 25
 359 49. 36
 251 25 54
 257 56 18
 257. 35. 30

5 095
 2 25
 7 275

1. 27
 11. 27

S 14

Iron spike 1815 ft near Keys on River bank

3.990	6.030	6.030	8.675	2.220	1.650	2.095	1.890	6.90	5.200	1.740	2.640	0.250	10.000	1.178	6.632	8.368	4.500	2.010	7.785	1.052	5.750	40.852
5.120	6.605	6.605	8.675	2.220	1.650	2.095	1.890	6.90	5.200	1.740	2.640	0.250	10.000	1.178	6.632	8.368	4.500	2.010	7.785	1.052	5.750	40.852
3.745	2.220	2.220	8.675	2.220	1.650	2.095	1.890	6.90	5.200	1.740	2.640	0.250	10.000	1.178	6.632	8.368	4.500	2.010	7.785	1.052	5.750	40.852
2.580																						
3.190	5.075	9.475	9.475	2.220	1.650	2.095	1.890	6.90	5.200	1.740	2.640	0.250	10.000	1.178	6.632	8.368	4.500	2.010	7.785	1.052	5.750	40.852
6.560	3.920	3.920	3.920	2.220	1.650	2.095	1.890	6.90	5.200	1.740	2.640	0.250	10.000	1.178	6.632	8.368	4.500	2.010	7.785	1.052	5.750	40.852
10.250																						
7.810																						
9.300																						
6.480																						
2.305																						
6.802																						
68.130																						

Nov Fall

1815.00
 1812.96 Iron RR
 1811.475
 1809.405
 1810.930
 1812.790
 1810.305
 1795.905
 1810.118
 1812.826
 1815.000
 1825.000
 1831.632
 1844.000
 1842.010
 1806.530
 1842.280

20 185

Full

15

68.132

40.852

Nov

Spikes at 1840ft

8.925

1.205 7.720

1850. Spikes

9.125

0.135 8.930

1858. 330

9.725

3.655 6.070

1865. 000 Spikes

10.803

0.803 10.000

1875. 000 Spikes

10.428

4.070 6.368

1881. 358
Int 172 ©
Per 1/2
No 1/2

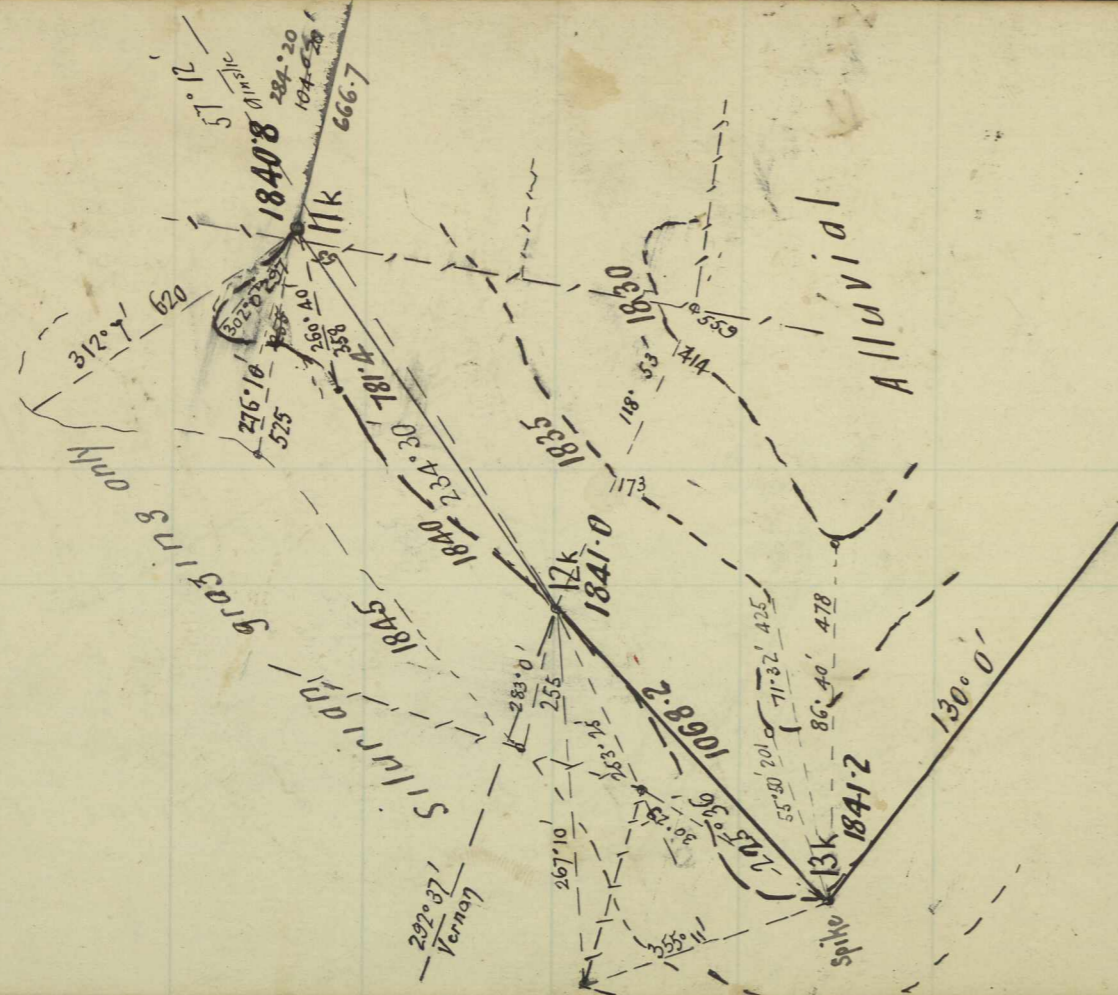
32.27 41

16

See over

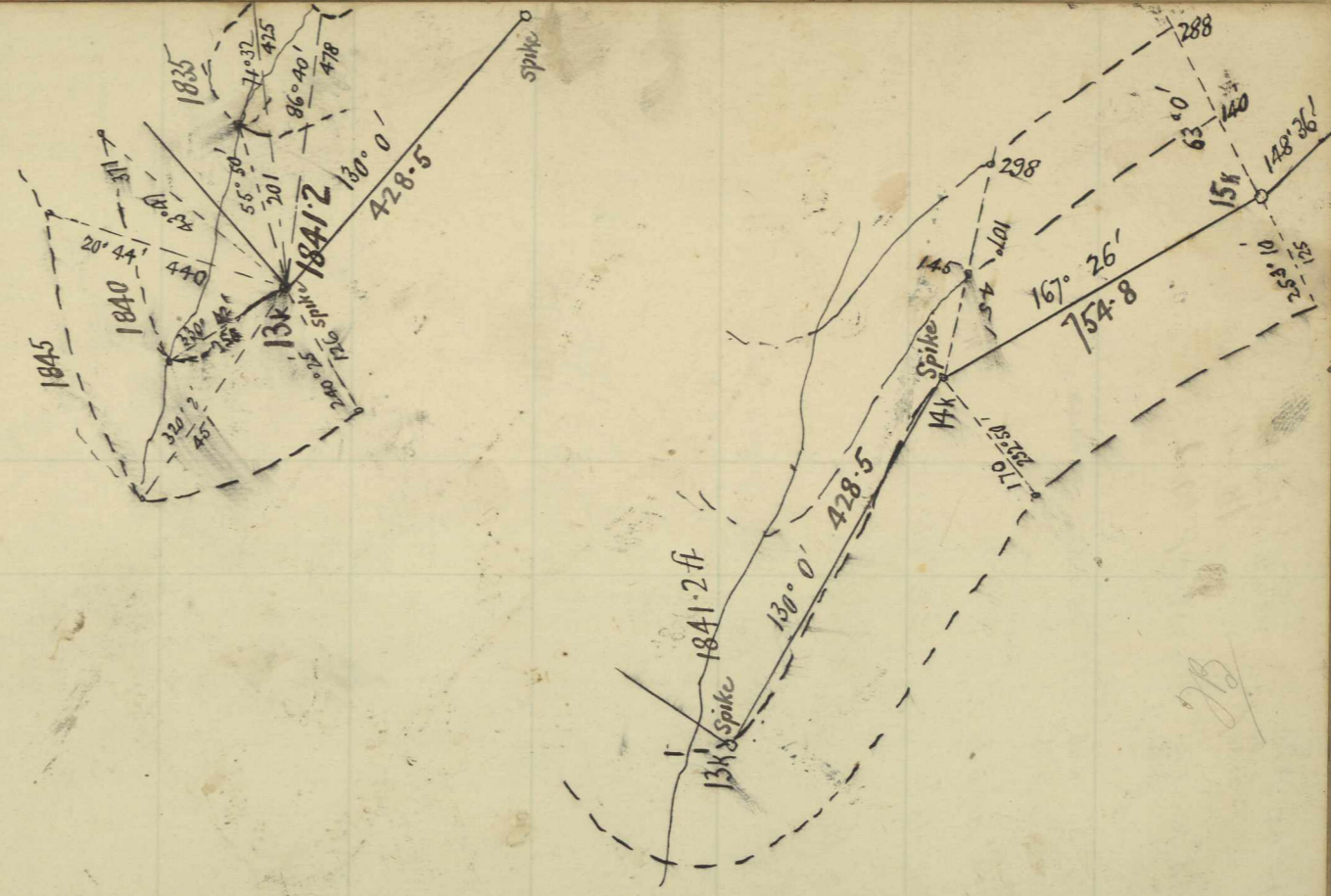
23

Traverse of 1840 ft Contour
N. of Malonglo River

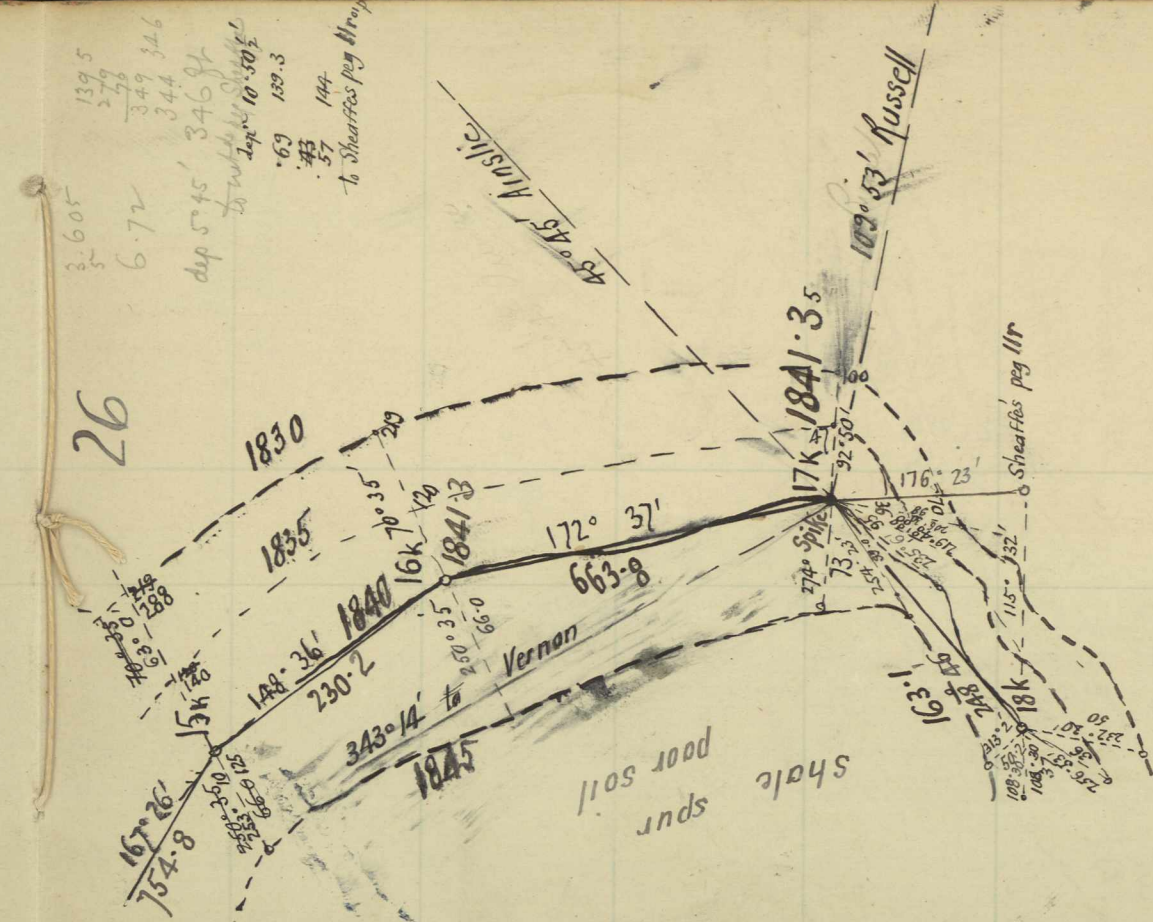


24

Traverse of 1840 ft Contour N. of Malonglo River

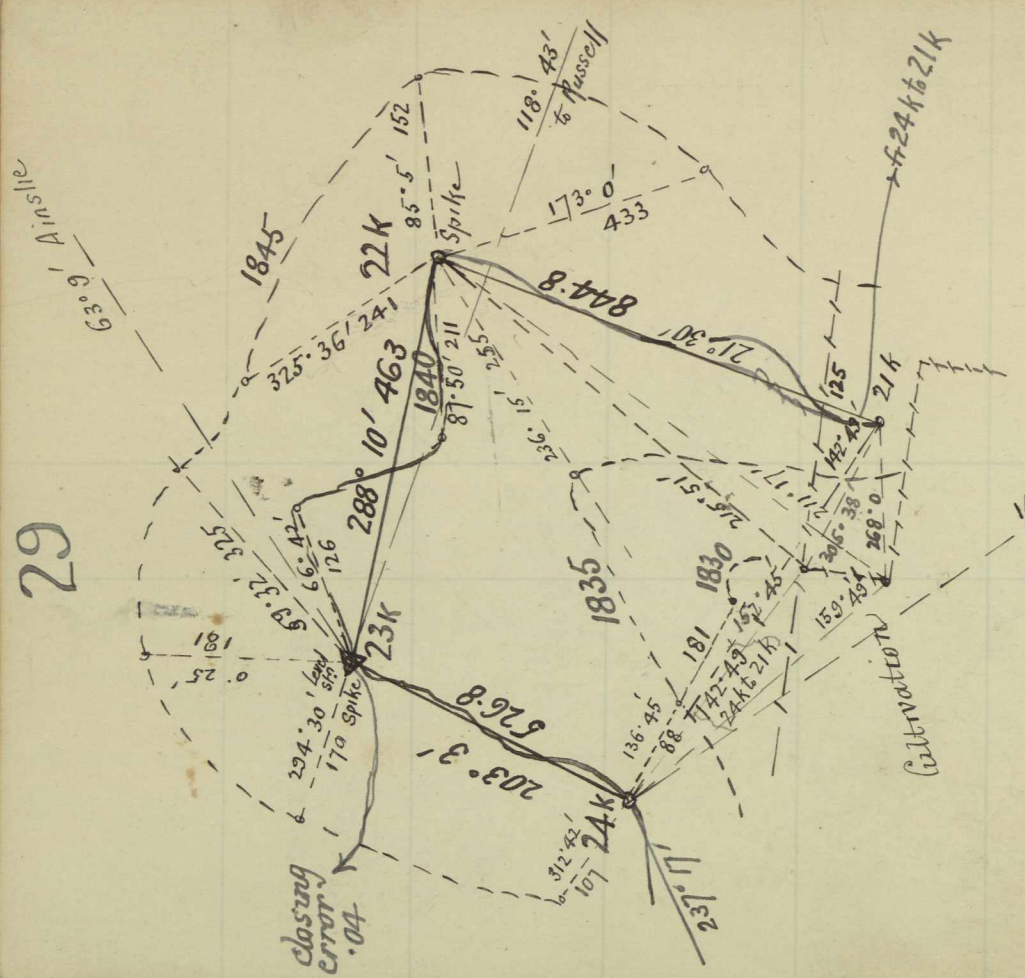


248° 45' 45" 4-34 176.18 k 163.1
 5-00 162
 5-80
 297° 48' 10" 5-00 990? 18 to 19 k 201.1
 5-35
 6-46
 321. 27' 5" 105 991 19. to 20 k 81 fence 991.4
 9-35
 327° 14' 45" 594 pass 20 to 21
 21° 30' 15" 21. 22
 288° 10' 3-14 5-00 462 22 to 23
 7-30
 203° 3' 2-895 7-63 527
 5



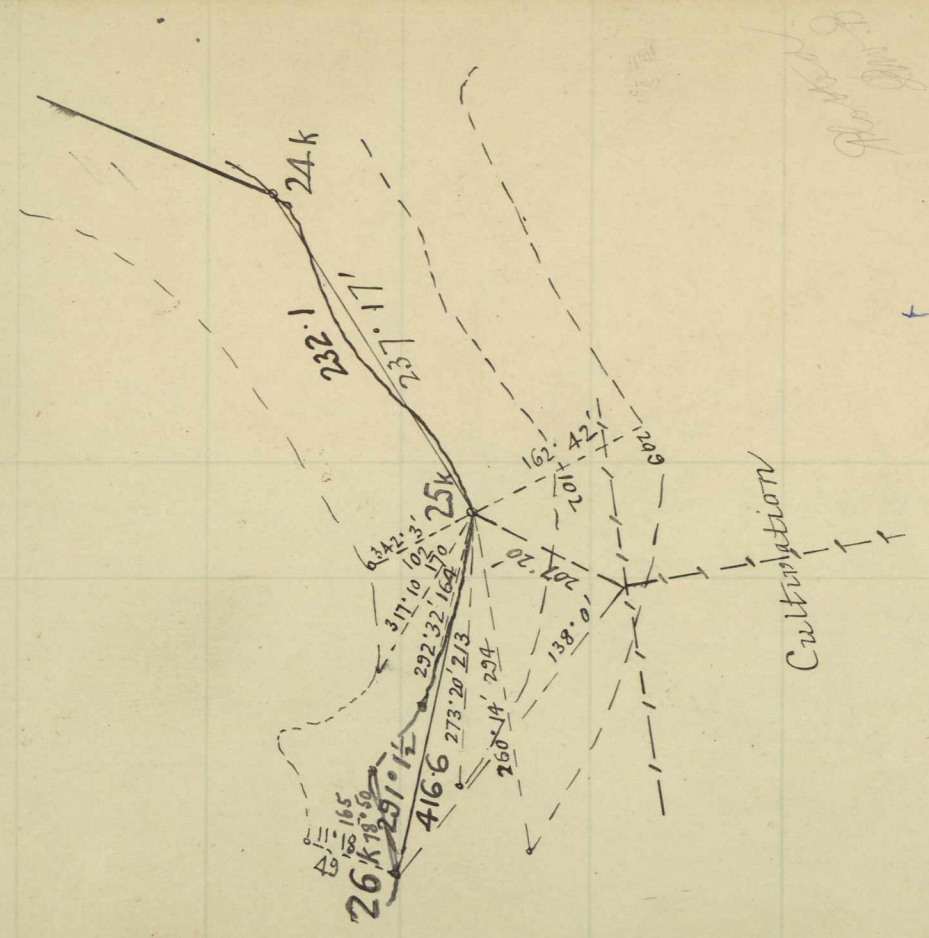
Traverse of 1840 ft Contour North of Abonglo River

113



Traverse
of
1840 feet Contour
North of Malonglo R.

- 237.17.25 229 244 to 25k
- 291.1.32 3.325 7055 413 254 to 264
- 86° 13' 20" 5.3575 6.775 357 264 to 274

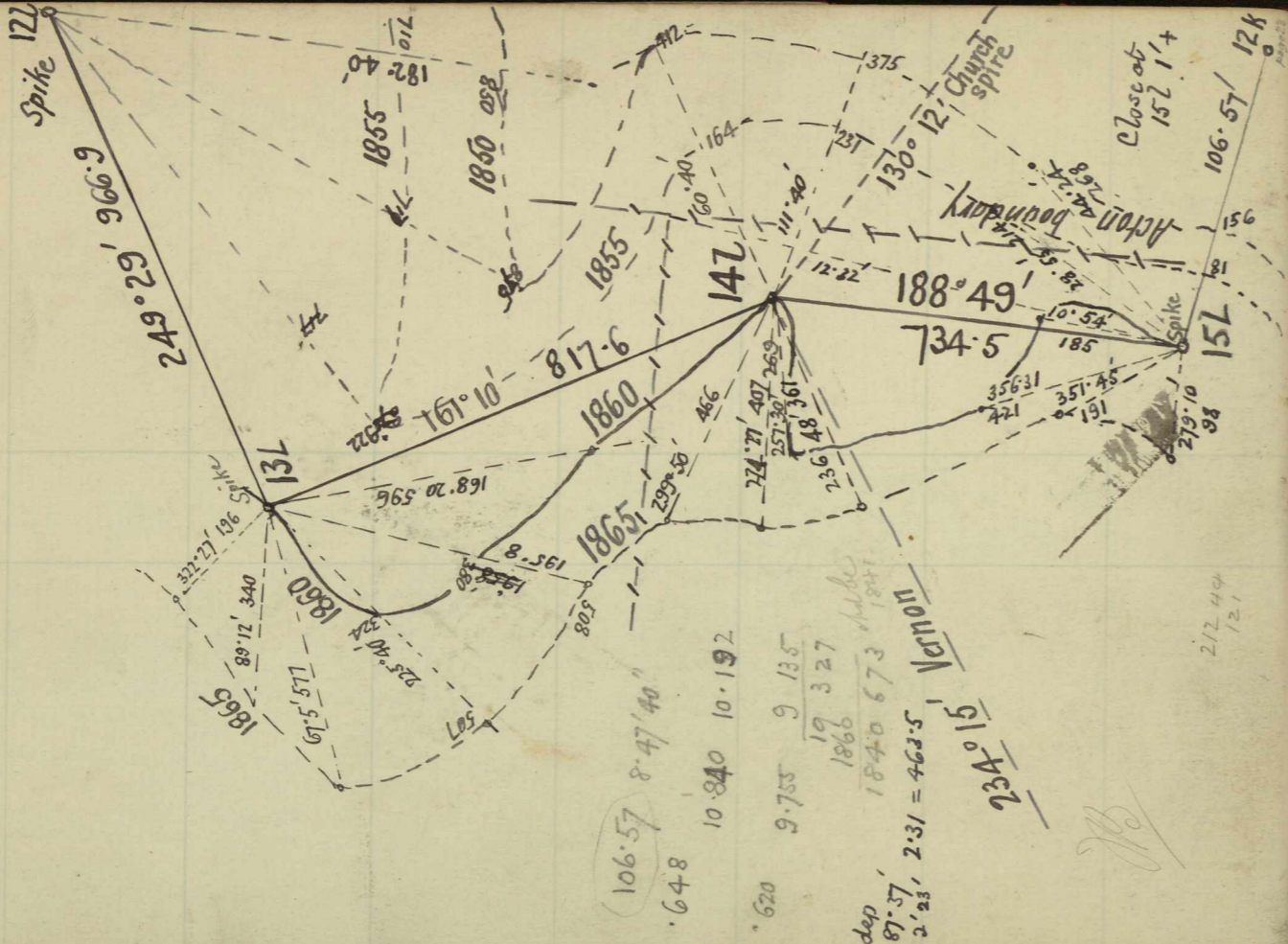


161° 10' 814
 188° 49' 734

45

30° 12' Church sp 14L
 234° 15' Ramon

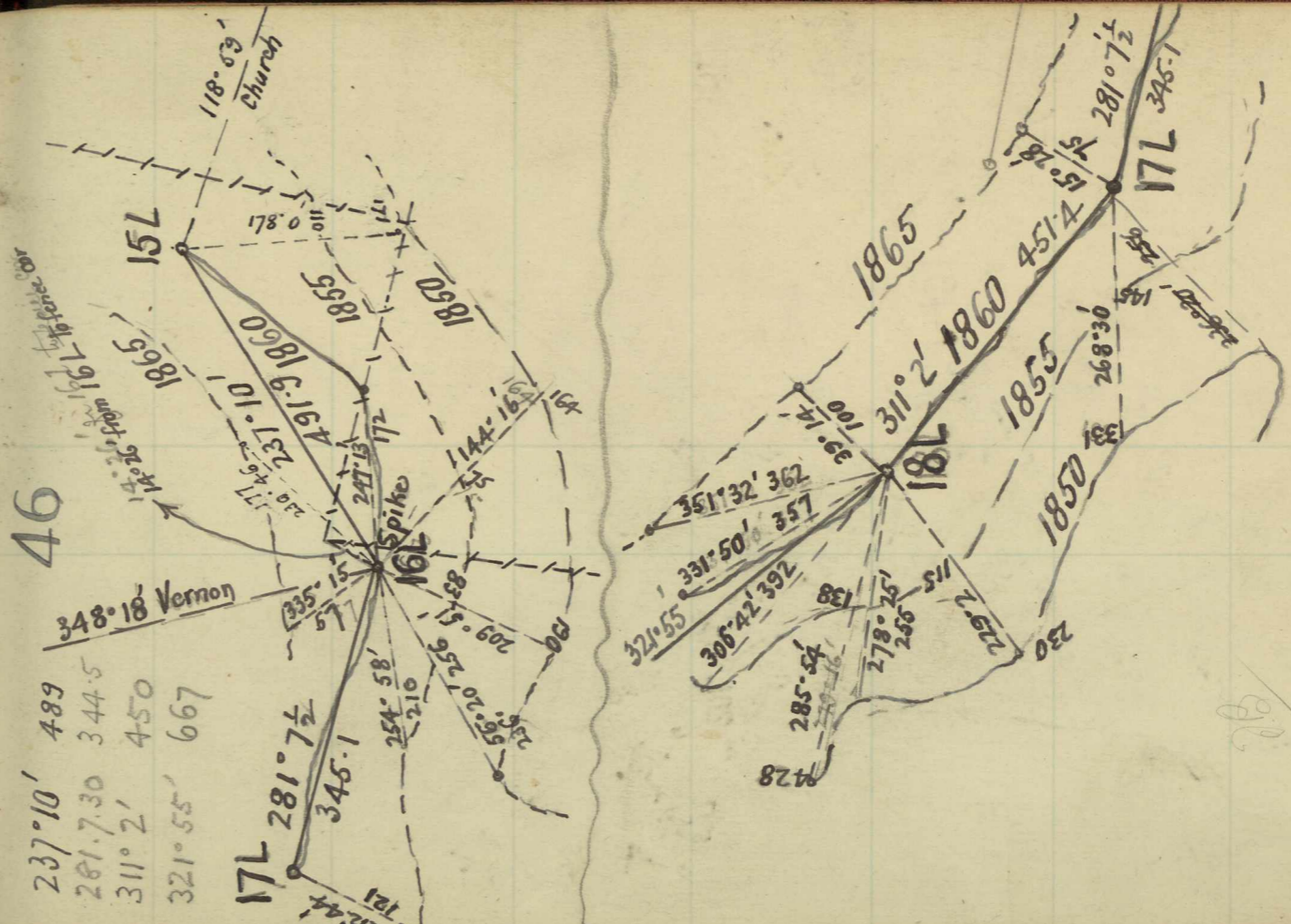
9.25 38°
 1.65 87°
 4.72 472



106.57 8° 47' 40"
 .648
 10.840 10.192
 9.755 9 135
 19 3 27
 1866
 1840 673 1844
 2.31 = 463.5
 dep 87.57
 2.23

234° 15'

46



237° 10' 489
 281.7.30 344.5
 311° 2' 450
 321° 55' 667

234° 15'

025
112
10-165
10-405
9-812
10-717
41 099
458
175
354
1099

458
9947
10-053
9-947
9-637
10-353
29637
10363
0

at Reef
Sf
Narra-bundah
359-52-35

Stow	Ryan
25-26' 56"	71-56-56
97 31 35	144 1 33
169 35 46	216 5 39
241 0 11	107 50 14
313 24 30	359 54 21
25 28 36	79 58 41
97 3 13	144 3 15
165 37 25	36 7 15
241 41 30	288 11 27
313 35 51	343 15 42
25 50 8	0
97 54 20	72 20 8
25 34 21	144 24 11
" 39	72-4-21
13	• 37
25	• 6
16	• 28
15	7
32	20
10	34
15	0
24	12
26	15
12	26
248	3
25-34' 21"	72-4 17 1/2

25 34 25
46-29-56 1/2

1855
1-245
5-11 10-63
9-575
20 205
6 405
13 80
1855
1841 2
9-75
10 9
115
230
5-385
3-400
5-31

1855
582
184948
8-28
1841-20
4-6
6-12
152
218
59
277
798
18
360
450
1841-2100
1840-99
1840-825
1840-60
1840-57
025
1841-2
10605
151320
14695
625
1841-2
6m
1840-575

P.H. - Hardy
Railway gages for subways

1841-2100
1840-99
1840-825
1840-60
1840-57
025
1841-2
10605
151320
14695
625
1841-2
6m
1840-575

