

Geographical Surveys West of 100th Meridian.

Book No. **225**, 1875.

TOPOGRAPHICAL RECORDS.

Party No. **3**, **Cal.** Section.

From Camp No. _____, at **Stones Ferry**

To Camp No. **662**, at **Campo Mohave.**

Atlas Sheet No. _____, **Time Record.**

Orig. **Current Obsn book**

Det. England — In charge of party.

Engineer Department, U. S. Army.

Cupboard 27
 Shelf 4
 No. 58
 1 book

No. 225



No 225

Current Observations

Stone's Ferry

Camp Mohave,

1875

Time Record, Etc,

Measured Base, at Stone's
Merry) 280' length.

Made Surface blocks
and tried them in the
water - good.

Observations
Stonés at Perry.

Position no. B. a. $\begin{cases} \text{I } 118^{\circ} 18' 00'' \text{ on Sla II} \\ \text{II } 24^{\circ} 26' \end{cases}$
 1st transit 2^d transit

Stenes Perry.

no. of Obs.	Depth of float	Depth of water	Sla. II	Time	Sla. I	Time	
1	Ship	14 feet	on Sla I = $51^{\circ} 48'$	h m s t 12 37 30 10	0° on Sla II	h m s t 12 39	
1	Ship	16 ft	$18^{\circ} 48'$	h m s t 12 41 0 23	$40^{\circ} 03' 30''$	h m s t 12 42 15 40	78.4
2	B		$14^{\circ} 53'$	12 45 30 22	$36^{\circ} 52'$	12 47 0 37	91.0
3	B		$14^{\circ} 54'$	12 51 0 4	$35^{\circ} 32' 10''$	12 52 50 26	94.4
4	B		$16^{\circ} 25'$	12 54 30 1	$34^{\circ} 15' 20''$	12 56 0 3	90.4
5	B		$15^{\circ} 26'$	12 58 0 56	$35^{\circ} 25'$	12 59 30 70	92.8
6	B		$14^{\circ} 25'$	1 1 45 52	$40^{\circ} 46' 20''$	1 3 15 44	88.4
7	B		$13^{\circ} 50'$	1 5 15 60	$38^{\circ} 28' 50''$	1 6 45 21	82.2
8	B		$16^{\circ} 11'$	1 8 45 67	$33^{\circ} 28' 40''$	1 10 50 1	91.8
9	B		$14^{\circ} 47'$	1 12 0 69	$37^{\circ} 20' 30''$	1 13 30 45	85.2
10	B		$14^{\circ} 45'$	1 15 45 46	$40^{\circ} 43'$	1 17 15 35	87.8
		16	$24^{\circ} 4' 0.2''$		$118^{\circ} 02' 0.2''$		

Date, July 9th 1875
 Aug.

Time by Thompson's watch

Position No. 2							
11	Ship	22 ft	$8a. 26-38$	h m s t 2 10 45 30	$135^{\circ} 35' 0.2''$	h m s t 2 11 45 69	67.8
12	B		$5-34$	2 15 15 8	$49^{\circ} 53'$	2 16 15 51	68.6
13	B		$4-30$	2 18 15 49	$53^{\circ} 6' 20''$	2 19 15 70	64.2
14	B		$5-8$	2 21 45 39	$51^{\circ} 42'$	2 23 0 17	70.6
15	B		$6-4$	2 25 15 32	$50^{\circ} 23'$	2 26 15 69	67.4
16	B		$4-6$	2 28 45 27	$51^{\circ} 35' 40''$	2 30 0 5	70.6
17	B		$5^{\circ} 22'$	2 32 0 41	$50^{\circ} 38' 00''$	2 33 15 31	73.0
18	B		$5^{\circ} 12'$	2 35 30 71	$51^{\circ} 14' 50''$	2 36 45 68	74.4
19	B		$5-53$	2 39 0 43	$50^{\circ} 13' 20''$	2 40 15 37	73.8
20	B	22 feet	$6-32$	2 42 30 3	$55^{\circ} 23' 40''$	2 43 30 61	71.6
			$8a. 27-38$		$136^{\circ} 38' 20''$		

Position No 3

Lent

1st - Transit

Thompson

2^d Transit

Aug 9/75

Time by Thompson's watch

no.	2 nd watch 111-	water	Sta II	Time	Sta I	Time	"
			0.2.14°56'	1 m 0 s	112°48'40" B.A.	1 m 0 s	
21	S	28 ft	2°39'	3 14 30 35	50°56'20"	3 15 30 51	63.2
22	"		2°00'	3 17 45 52	52-22-40	3 18 45 59	61.4
23	"		2°28'	3 20 30 59	52-35	3 21 30 69	65.0
24	"		3°12'	3 23 0 66	50-15-20	3 24 0 68	60.4
25	"		2°34'	3 25 45 1	53-19-20	3 26 45 35	66.8
26	"		1°37'	3 28 30 21	53-27-50	3 29 30 61	68.0
27	"		1°45'	3 31 15 14	52-59	3 32 15 37	64.6
28	"		2°00'	3 33 45 47	52-19	3 35 0 27	67.0
29	"		3°35'	3 36 30 57	50-40	3 37 30 52	60.2
30	"	28 ft	2°06'	3 39 0 60	50-01-20	3 40 15 1	63.2
			15°7' B.A.		112°55'10" B.A.		

Position No 4

11°57' B.A.

356°33'

no.	water	Sta II	Time	Sta I	Time	"
		115°34' B.A.	1 m 0 s			
31	20 ft	356°33'	4-58-0-25	59°19'	4 59 30 41	93.2
32	"	356-06	5-2-45-67	61 57	5 5 30 17	155.0
33	"	"-10	5-8-15-42	59-20	5 10 15 21	115.8
34	"	lost	5-12-0-17	55-02	5 14 15 44	80.4
35	"	356-25	5-16-45-12	58-39	5 18 15 54	98.4
36	"	352-46 lost	5-25-45-10	lost	5 lost	
37	"	357°27'	5-35-45-33	55-14-30	5 37 15 9	85.2
38	"	358°15'	5-39-45-20	lost	5 41 0 28	76.6
39	"	355°04'	5-45-45-57	62-26-40	5 48 15 70	183.8
40	20 ft	356°08'	5-51-45-12	lost	5 54 15 50	157.6
		16°33' B.A.		B.A. 124°46'		

Position No 5

1st - Lieut 2^d Thompson

no.	Moat	width	Sta II	Time	Sta I	Time	
41	S	10 feet		12 m to 12 21 45 14		12 m to 12 22 25	
42	"			12 29 0 60		12 22 3	
43	"			12 35 15 14		12 37 30 50	142.2
44	Sub ^{5ft} Super			12 44 0 40		12 47 0 19	175.8
45	S	10 feet		1 0 30 27		1 3 15 58	171.2

Position No 6

46	S	14 ft		1 17 30 61		1 19 15 52	103.2
47	Sub 5ft			1 25 30 1		1 27 0 0	89.8
48	S	14 ft		1 33 0 70		1 34 45 63	103.6
49	S			+		+	

Position No 7

49	S	24 ft		1 56 0 59		1 57 15 9	65.0
50	Sub 5ft			1 59 30 50		2 0 45 20	69.0
51							

Position No 8

51	S	24 ft		2 56 15 1		2 57 15 37	67.2
52	Sub 5ft			3 1 45 50		3 3 0 62	77.4
53	Sub 5ft			3 22 15 26		3 23 30 6	71.0
54	Sub 5ft			3 45 15 22		3 46 30 41	78.8
55	S	24 ft		3 49 30 8		3 50 30 37	65.8

~~56~~ 10 39

August 10th / 75
Time by Thompson's watch

Aug 11, 1875

Position No 9

no.	Water	1st - Lieut		2 ^d Thompson		Time by Thompson's watch
		II	Time	I	Time	
56	23 70		10 13 0 41		10 44 0 43	60.4
57	Subst. sp		10 57 30 14		10 58 30 35	64.2
58	b		11 3 45 9		11 8 30 27	288.6
59	213 74		11 13 30 20		11 14 30 21	60.2
60	b		11 17 45 18		11 19 15 70	100.4
61	b		11 47 30 24		11 48 30 40	63.2

Aug. 11/75

Time by Thompson's watch

~~Position No 10~~

62	b		11 54 15 30		11 55 45 44	92.8
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Position No 10

63	20ft		12 3 15 66		12 4 30 25	66.8
64	Subst. sp		12 6 30 59		12 7 45 21	67.4
65	b		12 13 0 1	lost 12		
66	Subst. sp		12 28 0 7		12 29 0 10	60.6
67	b		12 32 0 12		12 33 0 49	67.4
68	b		12 35 15 1		12 36 15 47	69.2
69	20ft		12 38 0 66		12 39 15 21	62.2
70	b		12 44 15 23	lost 12	lost	
71	b		12 46 15 20		12 47 15 57	66.2
72	b		12 50 30 5	lost 12	lost	
73	b		12 53 45 33		12 58 15 55	274.4

Position No

1st Lieut

14

D

Thompson

Aug 11/75

Time by Thompson's watch

no.	Moat	Width	II	Time	I	Time	
91	S	5 ft		3 50-62		3 9 0 1	227.8
92	S			3 10 4 71		3 16 30 52	341.2
93	S			3 19 15 69		3 24 30 25	306.2
94	S			3 27 15 4		3 31 30 16	257.4
95	S	5 ft		3 29 15 29		3 33 45 31	270.4

Position No 15

96	S	20 ft		3 44 30 0		3 45 30 3	60.6
97	S			3 47 0 45	lost	3 48 —	
98	S			3 50 45 61		3 52 15 1	78.0
99	S			3 54 15 71		3 55 45 58	87.0
100	Sub 5 ft			3 59 15 1		4 0 45 10	91.8
101	S			4 3 0 38		4 4 15 60	79.4
102	S			4 7 0 21		4 8 15 42	79.2
103	Sub 10 ft			4 14 30 1		4 16 0 26	95.0
104	S	20 ft		4 27 0 1		4 28 0 25	64.8
105	S			4 39 0 62		4 43 45 69	286.4

Position No 16

185

D

Thompson

Aug. 11/75

Time by Thompson's watch

No.	Wobal- Walsi	II Time	I Time	"
106	S 25 ft	4 47 30 31	lost 4 49 —	68.6
107	S	4 50 0 60	lost 4 57 —	
108	S	4 52 15 22	4 53 15 65	68.6
109	S	4 57 45 34	4 58 45 25	58.2
110	Sub 5 ft	5 0 30 45	5 1 45 33	72.6
111	S	5 4 15 21	5 5 0 42	53.0
112	b	5 9 15 28	5 15 0 50	349.4
113	b	5 13 45 37	5 18 30 31	283.8
114	Sub 10 ft	5 20 0 60	5 21 15 37	70.4
115	Sub	5 53 45 13	lost 5 55 —	

Position No 17

Thompson

Birnie

Aug 12/75

Time by Birnie's watch

116	S 24 ft	10 32 0 43	10 33 15 58	78.0
117	S	10 35 0 22	10 36 15 32	77.0
118	S	10 37 15 70	10 38 30 47	79.6
119	S	10 40 30 lost	10 —	
120	S	10 41 45 25	10 43 0 37	77.4
121	S 24 ft	10 49 0 53	10 50 30 43	88.0
122	b	10 58 0 37	11 0 30 57	154.0
123	b	10 57 15 70	11 1 15 36	113.2

Light breeze from the S.E.

Position No 18
 1st Thompson 2^o Birnie
 1st Thompson 2^o Birnie

Aug. 12/75

Time by Birnie's watch.
 Slight breeze from S.E.

no.	West	Depth	II	time	I	time	
124	S	15 ft		h m s t 11 5 0 27		h m s t 11 6 45 1	99.8
125	S			11 8 15 69		11 9 45 63	88.8
126	S			11 11 30 1		11 13 0 71	104.0
127	S			11 15 30 18		11 17 0 29	92.2
128	S			11 18 15 5		11 19 45 7	90.4
129	S			11 21 0 43		11 22 30 49	91.2
130	S			11 24 30 3		11 26 15 7	105.8
131	S			11 27 45 15		11 29 15 45	96.0
132	S			11 30 15 1		11 31 45 3	90.4
133	S			11 31 0 42		11 32 30 32	88.0
134	S			11 33 45 34		11 35 30 23	103.2
135	S			11 36 45 57		11 38 15 42	87.0
136	S			11 39 45 41		11 41 15 1	82.0
137	S	15 ft		11 42 30 29		11 44 0 17	87.6
138	b.			1-1-30-48		1-6-45-68	319.0

No	Float	Water	Position No 1		Prime		Time by Thompson's watch
			1 st Prime	2 nd "	I	Time	
1	B	3 ft	10 57 15 57	10 57 15 57	10 57 0 21	159.0	
2	B		10 57 15 8	10 57 15 8	11 0 15 1	178.6	
3	B		11 1 30 23	11 1 30 23	11 4 30 42	183.8	
4	B		11 6 0 38	11 6 0 38	11 8 45 31	163.6	
5	B		11 7 30 14	11 7 30 14	11 10 45 28	198.6	
6	B		11 13 0 2	11 13 0 2	11 15 15 20	138.6	
7	B		11 14 0 38	11 14 0 38	11 16 30 43	157.0	
8	B		11 17 45 61	11 17 45 61	11 20 45 39	175.6	
9	B		11 19 0 73	11 19 0 73	11 21 45 58	162.0	
10	B		11 23 15 2	11 23 15 2	11 26 15 33	186.2	
11	B		11 24 15 39	11 24 15 39	11 27 15 72	186.6	
12	B		11 28 30 6	11 28 30 6	11 31 45 40	201.8	
13	B		11 29 30 31	11 29 30 31	11 lost	181.4	
14	B		11 34 45 30	11 34 45 30	11 37 45 39	181.4	
15	B	3 ft	11 35 45 33	11 35 45 33	11 38 15 50	181.4	

August 28th 1875.
Time by Thompson's watch

Position No 2							
16	B	7 ft	12 4 0 1	12 4 0 1	12 6 0 0	119.8	
17	B		12 7 0 65	12 7 0 65	12 9 15 17	125.4	
18	B		12 8 0 31	12 8 0 31	12 10 0 38	121.4	
19	B		12 10 45 11	12 10 45 11	12 12 45 1	118.0	
20	B		12 11 45 10	12 11 45 10	12 13 30 54	113.8	
21	B		12 14 15 21	12 14 15 21	12 lost		
22	B	7 ft	12 15 15 20	12 15 15 20	12 17 15 17	119.4	

Position No 2

No.	Heat	Water	1 st Thompson		2 nd Birnie		
			II	Time	I	Time	
				h m s t	h m s t	lost	
23	⊘	7 ft		12 17 45 50	12 19 lost		178.4
24	⊘			12 25 30 29	12 28 30 21		178.4
25	⊘			12 26 30 20	12 lost		
26	⊘			12 31 30 3	12 33 15 50		114.4
27	⊘			12 34 0 63	12 36 15 16		125.6
28	⊘			12 37 0 38	12 39 0 55		723.4
29	⊘			12 39 45 60	12 41 45 50		118.0
30	⊘			12 42 30 47	12 44 30 23		115.2
31	⊘			12 45 45 53	12 47 30 61		106.8
32	⊘			12 48 45 31	12 50 45 5		114.8
33	⊘			12 51 45 47	12 53 45 50		120.6
34	⊘			12 52 45 7	12 lost		
35	⊘			12 56 0 3	12 58 0 12		121.8
36	⊘			12 57 0 15	12 59 0 9		118.8
37	⊘			1-0-0-9	1 lost		
38	⊘			1 0 45 65	1 2 45 42		115.4
39	⊘			1 4 0 31	1 lost		
40	⊘			1 5 15 1	1 7 0 43		113.4
41	⊘			1 8 15 39	1 10 15 61		724.4
42	⊘	7 ft		1 9 15 43	1 lost		

Aug 28th / 75

Position No 3

No	Float	Water	1 st Thompson		2 nd Binnie		
			II	Time	I	Time	
43	⊘	4 ft		h m s t 7 46 0 27		h m s t 7 48 30 40	153.2
44	⊘			7 49 45 26		7 52 30 31	166.0
45	⊘			7 53 30 15		7 56 15 48	162.2
46	⊘			7 54 45 23		7 57 30 5	161.4
47	⊘			8 6 15 19		8 9 0 40	169.6
48	⊘			8 7 45 11		8 10 15 25	152.8
49	⊘			8 18 0 10		8 20 30 31	154.2
50	⊘			8 19 15 4		8 21 45 27	154.8
51	⊘			8 22 30 70		8 25 0 43	155.4
52	⊘			8 23 30 61		8 26 15 1	153.0
53	⊘	4 ft		8 24 45 25		8 27 30 31	166.2

August 29th 1875

Water smooth and calm.

Position No 4

54	⊘	5 ft		8 46 15 53		8 49 15 37	176.8
55	⊘			8 55 30 14		8 58 30 10	179.6
56	⊘			8 56 45 49		8 59 45 6	171.4
57	⊘			9 1 0 3		9 4 15 5	195.4
58	⊘			9 2 15 4		9 5 15 10	181.6
59	⊘			9 3 15 48		9 6 15 39	178.2
60	⊘			9 11 0 26		9 14 0 59	186.6
61	⊘			9 12 0 70		9 15 15 7	182.4
62	⊘	5 ft		9 13 15 8		9 16 15 43	187.0

Position No 5

1st Thompson2nd Pirnie

No	Water	II	Time h m s t	I	Time h m s t	
63	Sub. 6 ft		9		9	
64	3 ft					
63	6 ft		9 32 0 20		9 34 45 28	166.4
64	Sub. 3 ft		9 36 30 29		9 stuck	
65	6 ft		9 39 45 53		9 42 15 35	146.4
66	6 ft		9 41 0 64		9 43 30 13	139.8
67	Sub. 3 ft		9 44 30 7		9 stuck	
68	6 ft		9 47 30 23		9 51 0 33	212.0
69	6 ft		9 48 30 55		9 52 0 68	212.6
70	6 ft		9 49 30 21		9 52 30 23	180.2
71	6 ft		9 54 45 16		9 58 30 26	227.0
72	6 ft		9 55 45 35		9 59 15 8	204.6
73	6 ft		9 56 45 72		10 0 30 50	220.6

Position No. 6

74	6 ft		10 32 lost		10	
75	6 ft		10 33 lost		10	
76	6 ft		10 34 30 39		10 36 45 60	137.2
77	Sub. 3 ft		10 38 30 8		10 stuck	
78	6 ft		10 43 30 21		10 46 0 22	157.2
79	6 ft		10		10	

Time by Thompson's watch
August 29th 1875

slight breeze from the S.E.

stiff wind from S.E.

Position No 7

No.	Float	Water	1 st		2 nd		
			Time	Time	Time	Time	
79	♂	8 ft	h m s t	h m s t	h m s t	h m s t	109.4
			11 7 45 1	11 9 30 23	11 15 45 63	11 17 45 52	117.8
80	♂	Sub. 3 ft	11 19 45 20	11 21 30 15	11 25 45 15	11 27 45 38	124.6
81	♂		11 29 45 33	11 31 30 40	11 38 15 56	11 40 15 17	112.2
82	♂	Sub. 3 ft	11 46 30 1	11 48 stuck			
83	♂	8 ft					
84	♂	Sub. 3 ft					
85	♂	Sub. 3 ft					

Aug. 29th/75
Wind S.E. Strong

Position No 8

No.	Float	Water	II		I		
			Time	Time	Time	Time	
86	♂	2 ft	h m s t	h m s t	h m s t	h m s t	237.8
			7 29 45 90	7 33 45 39	7 31 45 42	7 35 15 60	213.6
87	♂		7 33 0 51	7 37 0 19			233.6
88	♂						

Time by Thompson's watch
Aug. 30th/75

Water calm, no wind blowing.

Position No 9

89	♂	3 ft	7 42 45 1	7 47 0 27	7 43 30 62	7 48 30 5	260.2
90	♂		7 44 30 32	7 48 30 14			288.6
91	♂						236.4

S.E. Wind

Position No 10

No	Heat	Water	1 st Thompson	2 nd Birnie
92	B	4 ft	7 55 15 61	8 0 0 1
93	B		7 58 0 57	8 2 30 35
94	B		8 0 0 1	8 4 15 12

Position No 11

95	B	3 ft	8 11 45 27	8 blew over
96	B		8 12 30 1	8 "
97	B		8 13 30 41	8 "

Position No 12

98	B	4 ft	8 blew over	8 —
99	B		8 27 30 42	8 30 30 1 171.8
100	B		8 29 0 7	8 31 45 6 164.8
101	B		8 30 0 48	8 33 0 11 172.6
102	B		8 36 45 51	8 39 45 4 178.4
103	B		8 37 45 70	8 40 45 27 171.4
104	B		8 39 0 8	8 41 30 72 162.8
105	B		8 42 45 3	8 45 45 7 193.6
106	B		8 43 30 40	8 lost
107	B		8 44 45 13	8 47 30 13 169.8
108	B		8 49 0 65	8 lost
109	B		8 50 15 1	8 53 0 164.8
110	B	4 ft	8 57 0 70	8 lost

Time by Thompson's watch.

Aug. 30th 1875

Stiff breeze from S.E.

"

~~255.8~~ 265.6

257.2

Strong wind from S.E.

Position No 12

No	Boat	Water	II	Time h m s t blew over	I	Time h m s t
111	S	4 ft				
112	S			8 55 30 13		8 58 15 40 170.4

Aug. 30th 1875.

Strong wind from S.E.

Position No 13

113	S	4 1/2 ft		9 12 0 31		9 15 45 53 229.4
114	S			9 17 lost		9 20 45 21
115	S			9 18 0 32		9 21 45 59 230.4
116	S			9 22 45 72		9 27 0 7 242.0
117	S			9 23 45 71		9 28 15 43 264.4
118	S			9 29 15 3		9 32 45 0 223.0
119	S	4 1/2 ft		9 30 0 15		9 33 15 28 196.0

Position No 14

120	S	1 ft		not seen		
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Position No 15

121	S	1 ft		6 59 0 1		7 stuck
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Time by Thompson's watch

Aug. 31st 1875.

Water smooth & calm

Position No 16

No	Knot	Water	1 st Thompson		2 nd Birnie	
			II	Time h m s	I	Time h m s
122	S	3 ft		7 3 0 25		stuck
123	S			7 3 30 11		stuck

August 31st 1875
Water smooth

Position No 17

No	Knot	Water	1 st Thompson		2 nd Birnie		"
			II	Time h m s	I	Time h m s	
124	S	9 ft		7 22 0 31		7 23 45 51	109.0
125	S	3 ft		7 26 15 56		7 28 30 16	162.0
126	S			7 30 15 1		7 32 0 0	104.8
127	S			7 31 0 59		7 32 45 7	94.6
128	S			7 33 30 27		7 35 15 40	102.4
129	S			7 37 0 28		7 39 15 45	138.4
130	S	Sub. 5 ft		7 40 30 60		7 42 45 21	127.2
131	S			7 44 15 70		7 46 15 1	106.2
132	S			7 47 15 14		7 49 0 13	104.8
133	S			7 50 15 57		7 52 15 31	114.8
134	S	Sub. 5 ft		7 53 45 36		7 56 0 9	129.6
135	S			7 57 30 58		7 59 30 2	108.8
136	S	9 ft		8 0 30 57		8 2 45 8	126.4
137	S			8 7 15 32		8 9 15 60	114.4
138	S	Sub. 5 ft		8 10 30 61		8 12 45 10	125.4
139	S			8 18 45 1		8 20 45 39	127.6
140	S			8 23 30 29		8 25 30 10	116.6
141	S			8 24 15 54		8 26 30 71	138.4

Position No 17

1st Thompson 2nd Nimie

Breeze from S. E. 2.

No	Plant Water	II	Time	I	Time	
			h m s t		h m s t	
142	Sub. soft 9 ft		8 28 0 44		8 30 15 22	130.6
143	⊘		8 31 45 14		8 33 45 56	128.4
144	⊘		8 35 15 20		8 37 0 15	104.0
145	⊘		8 38 30 0		8 40 30 3	120.6
146	⊘		8 39 15 25		8 41 15 33	121.6
147	Sub. soft		8 44 30 57		8 46 45 52	134.0
148	⊘		8 48 15 15		8 50 15 27	122.4
149	⊘		8 51 45 37		8 53 30 59	109.4
150	⊘		8 55 0 12		8 57 15 5	133.6
151	⊘		8 55 45 15		8 57 45 1	117.2
152	Sub. soft		8 59 30 7		9 1 45 14	136.4
153	⊘		9 3 15 17		9 5 30 40	139.6
154	⊘		9 6 45 31		9 8 45 37	121.2
155	⊘ 9 ft		9 9 45 50		9 11 45 38	117.6

Position No 18

156	⊘ 3 ft		9 31 15 47		9 35 15 27	236.0
157	⊘		9 36 30 2		9 40 0 26	214.8
158	⊘		9 37 15 70		9 41 0 7	212.4
159	⊘		9 38 15 53		9 41 45 35	206.4
160	⊘		9 39 0 58		9 42 45 23	218.0
161	⊘ 3 ft		9 48 0 50		9 51 45 58	226.6

Position No 18

1st Thompson 2nd Bismarck

No.	Float	Water	II	Time	I	Time
162	Ø	3 ft		9 49 15 42		9 53 0 1
163	Ø			9 50 15 67		9 54 15 52

Position No 19

164	Ø	5 ft		6 13 45 10		6 17 30 1	223.2
165	Ø			6 15 30 13		6 19 15 16	225.6
166	Ø			6 16 30 14		6 19 30 57	187.4
167	Subd. 3ft			6 22 15 19		6 25 45 18	219.8
168	Ø			6 27 15 38		6 30 45 7	203.8
169	Ø			6 28 15 7		6 31 15 57	190.0
170	Ø			6 29 0 20		6 32 0 3	176.6
171	Ø			6 30 0 12		6 32 50 66	160.8
172	Subd. 3ft			6 lost		6 —	
173	Subd. 3ft			6 35 15 29		6 38 45 47	208.6
174	Ø			6 46 0 1		6 49 45 13	227.4
175	Ø			6 46 45 25		6 50 15 1	205.2
176	Ø			6 47 45 73		6 51 0 48	190.2
177	Ø	5 ft		6 49 0 25		6 52 0 29	180.8
178							
178	Ø odd float			6 54 0 0		6 56 0 8	121.6

65
-50" wide 4" depth
± 3"

Position A

14"	14 1/2"	15"	14 1/2"
216.8	12"	12 1/2"	12 1/2"
237.0	11 1/2"	13	12 1/2"
	11 1/2"		11 1/2"

10 bt Bar

12.5 for 10' = Velocity per second
of 1.25

Sept 1st 1875

Time by Thompson's watch
Water calm and smooth.

Draggd 25 ticks = 208.6

Position No 20

1st Thompson 2nd Birnie

No.	Float	Water	II	Time h m s t	I	Time h m s t	
179	B	4 ft		6 58 45 58		7 3 0 20	247.8
180	B			7 0 0 12		7 3 15 71	206.8
181	B			7 1 0 30		7 4 45 1	219.2
182	B			7 2 0 11		7 5 30 39	215.6
183	B			7 7 0 31		7 11 0 15	236.8
184	B			7 8 0 37		7 12 15 15	250.6
185	B			7 9 0 58		7 13 15 60	255.4
186	B			7 10 0 63		7 14 0 29	233.2
187	B	4 ft		7 11 15 20		7 15 15 1	236.2

Sept 1st 1875

" Water smooth and calm.

Breeze beginning from S.E.

Position No 21

188	B	2 ft		7 17 0 43		7 23 0 46	360.6
189	B			7 18 45 57		7 24 0 12	306.0

S.E. Wind 2

Position No 22

190	B	7 ft		7 38 0 63		7 40 0 20	111.6
191	B			7 38 45 10		7 40 45 10	121.0
192	B			7 39 15 38		7 41 0 20	102.4
193	Sub. S. 3 ft			7 41 15 70		7 43 15 30	110.6
194	B			7 44 30 15		7 46 30 30	125.0

Position No 22

No.	Float Water	1 st Thompson		2 nd Sims		
		II	Time	I	Time	
195	B 7 ft		h m s t 7 57 0 2		h m s t 7 52 35 33	111.2
196	B		7 54 30 31		7 56 30 31	120.0
197	B		7 55 30 23		7 57 15 39	108.2
198	B		7 56 0 61		7 58 0 1	108.0

Sept 1st 1875.
S. E. Wind 2

River a yellowish color, and a good deal of drift wood in it.

Position No 23

199	B 8 ft		8 6 15 20		8 8 0 20	105.0
200	B		8		8	

Position No 24

200	B 8 ft		8 37 15 40		8 39 0 1	97.2
201	B		8 38 0 64		8 39 45 31	98.4
202	Sub. S. 3 ft		8 45 30 29		8 47 15 32	105.6
203	B		8 48 30 36		8 50 0 61	95.0
204	B		8 51 0 37		8 53 45 60	169.6
205	Sub. S. 5 ft		8 55 15 0		8 57 0 10	— 10 ticks - +105.0
206	B		8 58 30 33		9 0 15 23	103.0
207	B		9 3 45 13		9 5 15 25	92.4
208	Sub. S. 5 ft		9 8 15 7		9 10 0 59	stuck at = 115.4
209	B		turned over		9	
210	B		9 12 15 50		9 14 0 32	101.4

Position No 24

No	What Water	1 st Thompson		2 ^d Birnie	
		II	Time	I	Time
211	Sub 3/8 ft		h m s t 9 21 15 12		h m s t 9 23 0 8
212	B		9 27 0 43		9 28 45 21
213	Sub 3 ft		9 33 0 0		9 34 0 5
214	B		9 41 15 42		9 43 0 2

Sept 1st 1875
 Stiff S.E. Wind. 3

104.2
 100.6
 61.0 = 58.0 - 15 ticks
 97.0

Position No 25

215	B 7 ft		10 25 30 21		10 27 15 13
216	Sub 3 ft		10 42 15 27		10 44 15 5
217	B		10 46 0 41		10 48 0 3
218	B		10 50 0 47		10 51 45 21
219	Sub 3 ft		10 52 45 30		10 54 45 50
220	B		10 56 0 70		10 58 0 19
221	B		10 59 0 20		11 1 lost
222	B		11 3 0 43		11 4 45 70
223	S odd		11 48 15 0		11 50 30 36
224	B odd		11 53 0 2		11 55 15 20

S.E. Wind 1

103.4
 - 15 ticks = 112.6
 112.4
 101.4
 - 5 ticks = 123.8
 106.8
~~111.4~~
 110.8
 142.2
 135.0

Position

No 216

1st Thompson2nd ...

Bissin

Sept 2nd 1875

Water smooth.

No	Float	Water	II	Time	I	Time	
225	B	7 ft		h m s t 6 22 45 21		h m s t 6 lost	
226	B			6 23 30 32		6 25 15 0	98.6
227	B			6 24 0 67		6 26 0 22	107.0
228	B			6 27 0 47		6 28 30 70	94.6
229	B			6 27 45 31		6 29 15 48	93.4
230	B			6 28 15 25		6 29 45 61	97.2
231	B			6 30 45 63		6 32 30 6	93.6
232	B			6 31 30 20		6 33 15 3	101.6
233	B			6 32 15 2		6 33 45 72	104.0
234	B			6 34 30 53		6 36 0 66	92.6
235	B			6 35 15 0		6 36 45 21	94.2
236	B			6 35 45 30		6 37 15 59	95.8
237	B			6 38 0 21		6 39 45 0	100.8
238	B			6 38 45 7		6 40 15 51	98.8
239	B			6 39 15 27		6 40 45 72	99.0
240	S			6 41 45 27		6 43 30 42	107.6
241	B			6 42 30 6		6 44 0 36	96.0
242	B			6 43 0 15		6 44 45 14	104.8
243	B			6 45 15 40		6 47 0 3	97.6
244	B			6 46 0 13		6 47 45 1	92.6
245	B			6 46 30 17		6 48 15 17	104.6
246	Subd. 3 ft			6 50 0 22		6 52 0 60	- 10 ticks = 129.6
247	B			6 54 45 55		6 56 30 18	97.6
248	B	7 ft		6 59 30 19		7 1 15 50	111.2

Position No

No	Flot	Water	1 st Thompson	2 nd Bernie
			II	I
249	♂ odd		Time 7 21 45 19	Time 7 50 25
250	♂ odd		7 7 0 17	7 9 0 13
	♂ bush		7 12 15 10	7 15 30 0

Sept 2 175
Water smooth

131.6
119.2
133.0

Position No 27

251	♂	4 ft	7 22 45 12	7 26 0 10
252	♂		7 23 45 11	7 26 45 61
253	♂		7 24 30 48	7 27 45 70

194.6
190.0
199.8

Position No 28

254	♂	5 ft	7 30 30 40	7 turned over
255	♂		7 31 45 17	7 35 45 63
256	♂		7 33 0 1	7 36 45 70
257	♂		7 38 0 19	7 41 45 36

249.2
238.8
228.4

258	♂ odd		7 45 0 61	7 47 30 48
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147.4

Position No 29

259	Sub. ♂ 3 ft	7 ft	7 49 30 19	7 51 0 60
260	♂		7 52 15 30	7 53 45 3
261	♂		7 57 30 21	7 59 0 23
262	Sub. ♂ 5 ft		8 5 45 37	8 7 45 9
263	♂		8 17 30 27	8 19 0 31

98.2
84.6
90.4
114.4
90.8

light breeze beginning to blow from S.E.

Position No 29

No	Float	Water	1 st	2 nd	Time
			Thompson	Simic	
			Time	Time	
264	Sub. B	3 ft 7 ft	8 22 45 29	8 24 30 20	103.2
265	Sub. B	8 ft	8	8	8
265	B odd		8 27 0 33	8 30 0 59	185.0
266	Sub. B. free		8 33 0 1	8 34 30 28	95.4
267	B odd		8 39 45 0	8 42 15 22	144.6
268	B odd		9 56 45 47		

Sept 2/75

Lami no. 1

~~1~~
~~2~~
~~3~~

~~1~~
~~2~~
~~3~~

~~1~~
~~2~~
~~3~~
B

~~1~~
~~2~~
~~3~~
a
3
4
~~B~~
5
6

R L5

9.5

C 5.5

C

C 2.5

2

C

4

50

5/2

6

6

6

45

B

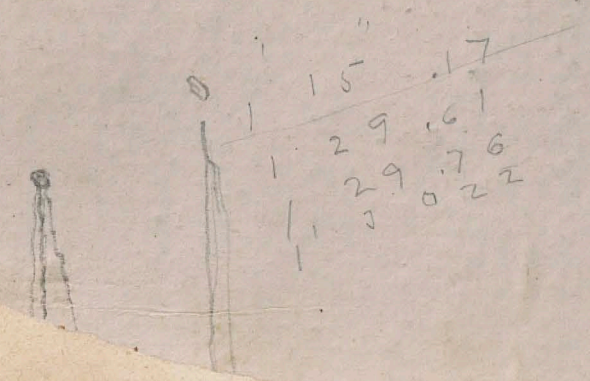
10

8

10

10
8
7
6
5
4
3
2
1

Lami 1
10 8 30 1 7 7 8 8 6 5 5 2 4 3 2 2



15 + .17 = 15.17
29 + .61 = 29.61
29 + .76 = 29.76
3 + 0.22 = 3.22

