

FIELD BOOK NO.

Author A J Benke

Containing Surveys in the
Districts Lyndon

Date

July 1874

Table of Versed Sines for each 10 Minutes from 2° to 25° inclusive.
Correction to 100 links for Slope.

Deg.	Min.	Vers. Sin.	Deg.	Min.	Vers. Sin.	Deg.	Min.	Vers. Sin.
2	...	.06	10	...	1.52	18	...	4.89
	10	.07		10	1.57		10	4.98
	20	.08		20	1.62		20	5.07
	30	.09		30	1.67		30	5.17
	40	.11		40	1.73		40	5.26
	50	.12		50	1.78		50	5.35
3	...	.14	11	...	1.84	19	...	5.45
	10	.15		10	1.89		10	5.54
	20	.17		20	1.94		20	5.64
	30	.19		30	1.99		30	5.74
	40	.20		40	2.07		40	5.83
	50	.22		50	2.12		50	5.93
4	...	.24	12	...	2.25	20	...	6.03
	10	.26		10	2.25		10	6.13
	20	.29		20	2.30		20	6.23
	30	.31		30	2.35		30	6.33
	40	.33		40	2.43		40	6.43
	50	.36		50	2.50		50	6.54
5	...	.38	13	...	2.56	21	...	6.64
	10	.41		10	*2.62		10	6.75
	20	.43		20	2.69		20	6.85
	30	.46		30	2.76		30	6.96
	40	.49		40	2.83		40	7.06
	50	.52		50	2.90		50	7.17
6	...	.55	14	...	2.97	22	...	7.28
	10	.58		10	3.04		10	7.39
	20	.61		20	3.11		20	7.50
	30	.64		30	3.18		30	7.61
	40	.68		40	3.26		40	7.72
	50	.71		50	3.33		50	7.83
7	...	.74	15	...	3.41	23	...	7.95
	10	.78		10	3.48		10	8.06
	20	.82		20	3.56		20	8.18
	30	.86		30	3.64		30	8.29
	40	.89		40	3.71		40	8.41
	50	.93		50	3.79		50	8.53
8	...	.97	16	...	3.87	24	...	8.64
	10	1.01		10	3.95		10	8.76
	20	1.06		20	4.04		20	8.88
	30	1.10		30	4.12		30	9.00
	40	1.14		40	4.20		40	9.12
	50	1.19		50	4.28		50	9.25
9	...	1.23	17	...	4.37	25	...	9.37
	10	1.28		10	4.45		10	9.49
	20	1.32		20	4.54		20	9.62
	30	1.37		30	4.63		30	9.74
	40	1.42		40	4.72		40	9.87
	50	1.47		50	4.80		50	9.99

Table of Versed Sines for each 10 Minutes from 26° to 45° inclusive
—continued.

Deg.	Min.	Vers. Sin.	Deg.	Min.	Vers. Sin.	Deg.	Min.	Vers. Sin.
26	...	10.12	33	...	16.13	40	...	23.30
	10	10.25		10	16.29		10	23.58
	20	10.38		20	16.45		20	23.77
	30	10.51		30	16.61		30	23.96
	40	10.63		40	16.77		40	24.15
	50	10.77		50	16.93		50	24.34
27	...	10.90	34	...	17.10	41	...	24.53
	10	11.03		10	17.26		10	24.72
	20	11.16		20	17.42		20	24.91
	30	11.30		30	17.59		30	25.10
	40	11.43		40	17.75		40	25.30
	50	11.57		50	17.92		50	25.49
28	...	11.70	35	...	18.08	42	...	25.68
	10	11.84		10	18.25		10	25.88
	20	11.98		20	18.42		20	26.08
	30	12.12		30	18.59		30	26.27
	40	12.26		40	18.76		40	26.47
	50	12.40		50	18.93		50	26.67
29	...	12.64	36	...	19.10	43	...	26.86
	10	12.68		10	19.27		10	27.06
	20	12.82		20	19.44		20	27.26
	30	12.96		30	19.61		30	27.46
	40	13.11		40	19.79		40	27.66
	50	13.25		50	19.96		50	27.86
30	...	13.40	37	...	20.14	44	...	28.07
	10	13.54		10	20.31		10	28.27
	20	13.69		20	20.49		20	28.47
	30	13.84		30	20.66		30	28.67
	40	13.98		40	20.84		40	28.88
	50	14.13		50	21.02		50	29.08
31	...	14.28	38	...	21.20	45	...	29.29
	10	14.43		10	21.38			
	20	14.58		20	21.56			
	30	14.73		30	21.74			
	40	14.89		40	21.92			
	50	15.04		50	22.10			
32	...	15.19	39	...	22.28			
	10	15.35		10	22.47			
	20	15.50		20	22.65			
	30	15.66		30	22.83			
	40	15.82		40	23.02			
	50	15.97		50	23.21			

Tide, min		Ocean.
<i>To Top of Cliff Ridge Bluff</i>	3700	
<i>Base of cliff</i>	3550	<i>Low cliff</i>
<i>380 ft S.</i>	3550	<i>Post in canon stone pointers</i>
<i>AB 12/12.</i>	2900	
<i>680</i>	<i>Sand</i>	<i>Ridge: 713</i>
<i>94</i>	<i>2400</i>	<i>94</i>
	<i>1400</i>	
<i>Sand</i>	<i>1200</i>	<i>Ridge</i>
	<i>1000</i>	<i>Hill</i>
<i>(89° 45' 30" 94)</i>		<i>Rock</i>
<i>See F.B. 54 page 2</i>	<i>θ</i>	<i>Traverse line S</i>
	<i>0</i>	
	<i>7800</i>	<i>Peg marked stone pointers</i>
	<i>270° 2'</i>	

North Boundary of Pastoral
Lease 680/94

Syndon District
Plan 77300.

	2	
Undercutting concrete ridges running with a sand	236.00	J.J.B. 13/1/12
	225.00	
	214.50	86 peg & trenches.
	205.00	
Muller	196.00	concrete
713	186.00	
94	175.00	680 94
Sandy	165.00	85 peg & trenches. concrete
	154.00	
	145.00	
	133.00	
Sand	125.00	84 peg & trenches specimen
	122.00	
	111.00	
To old stone cur-	100.60	ridge
90		
Sand	100.60	
67.40		
66.50' 30"		
	92.00	
J.J.B. 13/1/12	85.00	83 peg & trenches.
	83.00	
Sand	73.00	specimen
	63.00	
Muller	55.00	
713	45.50	680 94
94	82 peg & trenches.	
Sandy	35.00	specimen
	25.00	
---	23.00	truck
	15.00	
	10.00	
To old stone cur-	0.00	
90.2'		peg stone pointers.
F.B. 54. p. 2.		

52100

51400

50300

49300

48350

7¹³
peg - trenches

P. Palas

Spaniard

46600

-

713

06.

94

680

94

Wanyan

25° 6'
P.
P.
P.

Sun

25

89° 56' 20" 025.

45600

680

94

P. Palas

P. Palas

44600

Family

43400

7¹²
peg - trenches

42800

41950

41650

40500

7¹¹
peg - trenches

40350

Scrub.

39260

38700

37900

37300

Spaniard

P. Palas

7¹⁰
peg - trenches

36500

Scrub.

35400

34340.

33600

Wanyan

33000

7⁹
peg - trenches

32400

680

31400

94

30400

29300

28500

8
peg - trenches.

28100

27700

26700

25600

24600

7
peg - trenches

23600

Spaniard

Scrub.

713

94

P. Palas
matured bush

-

Scrub.

713

94

Scrub.

713

94

Benevolating country
amongst shrubs

-

Scrub.

713

94



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July 12, 1912 CB Pl. page 25

263° 58' 20" 57° 43' 0" 269° 58' 20"

Q.A. 360° 127° 360°

14 - 7 - 12. 23° 53' 20" 23° 53' 20"

5. 456.00 456.00 6.3.

5

18137

sec F. B. 56 P. 27

Part X

(664.27)

167° 21' 45" ✓

17572

16572

15572

14572

13572

12572

11572

Salt bush Plain

10572

Limestone hills

9072

8272

7272

6272

5272

4272

4072

3072

2072

1072

100

50

266° 24'

7/11/12

see note p. 7

12702

12702

Connection to Marsh Field Party (see next page)

Traverse of Salt Lake C

corr

Note.

I found it impossible to pick out the cairns on Marsh Hill & K. 65 during the course of the Traverse up the lake.

On arrival at the point marked by the post ^X 27 I was enabled to pick up the bearings of the locality and I could then see what turned out to be the pole at the Marsh Hill Trig. I could not however see any sign of K. 65.

I proceeded to the Marsh Hill and found that the cairn had fallen down and the scrub had grown ^{round} round it. I had the cairn re-built and the scrub cleared.

I was unable to get any shots at distant points from the Trig. On my arrival there on the 21st rain commenced to fall and continued all the afternoon and the following morning though the rain had cleared the atmosphere was very hazy so that distant objects could not be seen

AIB
7/21/12.

Cave at K 65 found fallen down with
pole in ground. Cave re-built and
pole fixed. This cave is in a very bad
position being at the point of the hill. The
hill rises behind it to the North so
that nothing is visible in that direction.
Also with the hill as a background
the cave could only with difficulty be
picked out from the South & West.

Forest's cave to the west also
re-built and numbered ^X 29. This is also
in a bad position relative to surrounding objects.
This would be the cave that was picked
up by Roseland as K. 65 would not
be visible from his lake traverse.

For correction see p. 9.

9

26° to Sun. alt. X
28

23/1/12.

Latitude 23° 37' 58" S.

R.M. (tellurium 28). 36° 12' 0" 300°

Ap.m. of sun 170° 18' 40" alt 29° 26' 40"

F 170. 54. 0

F 350. 9. 0 Coast 66° 15' 20"

F 350. 14. 0

True bearing of R.M.

136° 51' 24"

136° 51' 23"

C.B.P. 1 page 18

30/10/12

(717.22
178° 35' 20" post. X
28) 2925.3

2000

1000

317° 17' 30"

4181

5781

2751

2302

1781

1081

100

50

316° 38' 0"

1995

1985

00

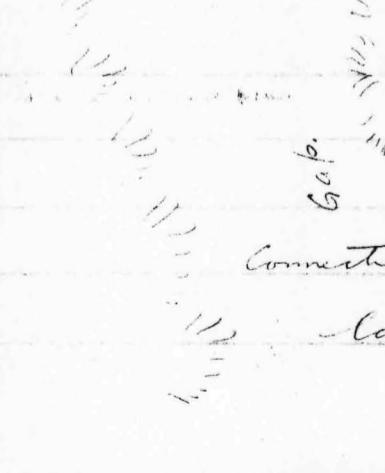
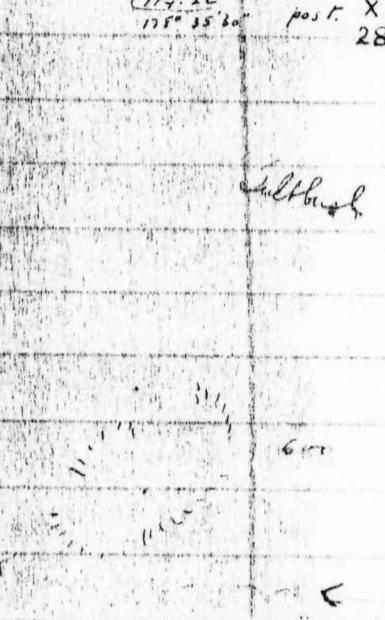
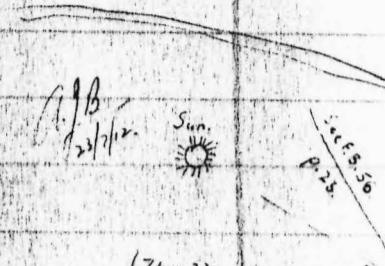
309° 4' 45"

K65

file p 8

Connection from K.65 ~ X29 to

Lake house.



A.J.B.
28/2/12

11

18300

Sand

Piplaro
00
00
27
17700
16800

Aug 4
mmms
1119 1114

15700

1118 1117
Sandy ridge

1111

Piplaro

15100

lime stone

last sandy
mm

14100
13650

1111
ridge
mm

→ m6

713
94

12500

For 06°
Sep 25.

714
94

Aug 3
mmms

11550

1118 1115
Sandy ridge

1111

Dunes

10900

Scrub

713
27/2/12

9800

11 Sun.

8700

Piplaro

Aug 2
mmms

8000

Wanyan

7500

1118 1115

6500

1118 1115

5500

1118 1115

sandy
ridge

5400

Dunes
Scrub

713
27/2/12

5000

1118 1115

94

4000

714
94

3000

Milbush

2000

Scrub

Saltbush

1000

(313.22
78° 20' 30")

post

00

X
68

100

269.57'

A.

Salt Lake.

Station (13)
3400
F.B. 56. p 13.

Boundary between Pastoral Leases

713/94 ~ 714/94.

12

J. B.
Gibbs

Mr. W. H. C.

Sandy

Soil

42900

42400

11400

per
acres

40450

Mr. W. H. C.

Sandy

Soil

35350

Dense sand

Mr. W. H. C.

ridge

Soil

45 Sun

Farm 0287

Sec. 0.2A.

Dense mallee

Soil

Kanara

713

94

38350

714

94

Mallee

37800

Soil

per
acres

36300

Mr. W. H. C.

Sandy

Soil

35280

55000

ridge

Soil

14000

33000

Eucalyptus

Soil

32100

Mr. W. H. C.

Sandy

Soil

31100

ridge

Soil

damp

Soil

Mallee

30100

Pineapple

29100

Mallee

per
acres

7

28100

27100

26100

Mallee

25100

Mallee

Poplars

Soil

23200

Limestone

22200

Mallee

21200

Mallee

713

94

24200

714

94

Mallee

Fair sandy soil

Mr. W. H. C.

Sandy

Soil

20200

ridge

20100

Soil

19300

Soil

18350

Mallee

		13	
GJB 7/18/12	on 100' 100' Sunday 100' 100'	63200 63100	ridge 100'
		62500	
Dense	Sunb.	61400	Sunb.
	Alb. Alb. 100' 15' pegs & trenches	60350	100' 100' 100' 100'
F. plats		59500	Sunb.
713			714
94			94
	100' 100' 100' 100'	55500	
	100' 100'		
Dense		58200	Sunb.
	Alb. Alb. 100' 100' Alb. Alb. 100'	57100	100' 100' 100'
		565.50	
	Alb. Alb. 100' 100' pegs & trenches	55800	
Dense		55200	Sunb.
	Alb. Alb. 100' 100' Alb. Alb. 100'	54400	ridge 100' 100'
• mulch		53900	Sunb.
		52900	
GJB 7/18/12.	Alb. Alb. 100' 100' pegs & trenches	52100	ridge 100' 100'
	100' 100' 100'		
Dense		52200	Sunb.
Fence		51190	posts = 5 wires.
		51100	
		50100	
mulch			
Sunb.		49100	spurifer
713			714
94			94
	pegs & trenches	48100	
	Alb. Alb. 100' 100' Dense	47600	ridge 100' 100'
	100' 100' 100'		
		47100	
		46100	mulch
		45100	Sunb.
	pegs & trenches	44100	
		43500	
		42900	

14

Instruction

Order

88840

Post 88790

Dept Small hills

87940

~~See F.B. 54. p. 6.~~(427.10
106° A7'30"
per g.
trenches)

22 86935

2.7 ft.

86250

For 06 m sec fo. 24°

85550

Juniper

21
per g.
trenches

83200

82200

81550

80550

79650

20
per g.
trenches

79450

U.F.B.
3/18/12.

78750

Juniper

19
per g.
trenches

77700

76700

75700

75400

74300

73300

11/11

per g.
trenches

73000

72600

713
94

71600

714
94

Mallee

70600

11/11 Spaniba

mallee

per g.
trenches

69600

68600

68500

67550

67450

S. curv.

Ground
16
per g.
trenches

64500

64300

11/11 ridge

63200

1/13
3/12

	1/10	2000	
South.	1/10	1000	
	1/10	00	
	1/10	307° 30' 45"	
(716.29 179° 7' 15")	1/10	10+50	1/10 Ridge.
	1/10	4800	

	1/10	1000	
Secondary	1/10	8000	1/10 ridge
	1/10	8000	

	1/10	1000	
House	1/10	7600	
	1/10	7600	

	1/10	1000	
Secondary	1/10	6600	1/10 ridge
	1/10	6600	

	1/10	1000	
Secondary	1/10	5600	1/10 Dense scrub
	1/10	5600	

Appliance.

D. m.

South.

A/B
308° 25' 0"

30000

2000

1500

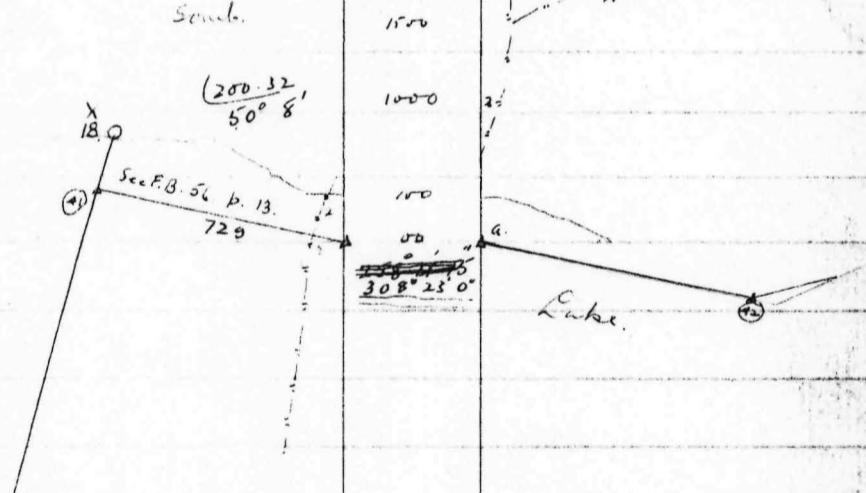
1000

500

00

308° 25' 0"

Fence wires



Traverse of present fence dividing
Flemington Station (lease held by G. Mitchell)
from Lummeloo Station (lease held
by T. W. Rotham).

Fence is a six wire fence with iron standards
and is in good order.

A/B
30/1/22.

111 111

16

1100

1111

00

270° 57'

1775

1111 1111
1111 1111
 (218.36)
 179.035

1111 1111

1111 1111

1111 1111

1111 1111

1111 1111

Brulee

1200

Pelicans

200

Sands

00

270° 85' 30"

(218.7)

$179.031.45"$

1111 1111

1111 1111

3600

1111 1111

1111 1111

3000

Brulee

2000

Spring.

Pelicans

1000

Spring.

500

00

271° 3' 30"

(217.35)

$179.023.15"$

1111 1111

1111 1111

4500

1111

ridge

1111

Sands

3500

Pelicans

Brulee

3100

A/B
30/1/22.

Society

2100

1111 1111

2000

ridge

1000

1111 1111

00

271° 40'

(218.40)

$179.040.110$

3300

1111

d Ridge

1111

Dunes

2400

Sands.

1400

Sands

400

1111

Ridge

1111

00

271° 55' 30"

(577.54)

$144.028.30"$

4174

1111

New

1111

Pelicans

3000

Wangn

Karuna

2000

7/18
2/8/12.

17

1000

269° 14'
268° 35"

32.7 2

1111.
ridge
line

(718.35
179° 35' 45"
Sandy
line)

2500

1500

1000

00

269° 35'

2900

1111.
Rocky ridge
line

2200

2000

Sand.

1000

00

269° 56' 30'

30

4500

1111. 1111.
line line

(718.54
179° 43' 30"
line line)

Dense

3500

2400

" Sand.

7/18

Wauyu

2800

Karana

1500

1000

00

270° 7'

2000

1111. 1111.
line line

(719.35
179° 53' 45"
line line)

1000

00

270° 13'

4500

1111.
line

(717.4
179° 16'
line line)

4500

Potlano.

Sandy
line

3400

1111.
2 miles
line line

Potlano.

3200

1111.
line line

270° 57'

2200

1111.
line line

1000

1111.
line line

Sun. (For 065°
sec p. 23)

	111111 111111	18	111111
GFB 2/14/44	mallee	8500 7500 7100	201 fence Sprinker
		6100	111111
		5700	
	111111 111111	4700	111111 ridge
		4200	111111
		3200	
	111111 111111	2200	21 ridge
		2100	111111 Sprinkler
		1000	
		50	
		268° 38'	
	111111 111111	5100	21 ridge 117.4, 119° 16'
		4700	
GFB 2/14/44	mallee	3700	
		2700	
		1700	21 Sprinkler
		1000	
		00 267° 54' 268° 16'	
(117.15 119° 18' 45' Fence 5 wires)	mallee	2300 2000	111111
		1400	
	mallee	1000	Sunt.
		00 268° 35' 267° 54'	
(117.24, 119° 21' Fence 5 wires)	mallee	3300	111111 ridge
		2700	
	Fence	1700 1000	Sunt.
		00	

19

55.0

56.00

114.00
S. 1. sl
H. 1.00

75.00

71.00

61.00

51.00

41.00

31.00

28.00

18.00

17.00

10.00

0.0

268° 30' 15"

114.00

116.00

111.00

110.00

0.0

266° 8'

89.00

80.00

(715.48
178° 57')

70.00

66.00

56.50

46.00

40.00

30.00

20.00

10.00

0.0

267° 11'

79.50.

(714.11
178° 32' 45" Sounding
H. 1.00)

90.00

85.00

Spurfer

Mullen

Spurfer

Sum
714.00 also in p. 23.

51.00 [710.30]

77° 37' 30"

-- 16.

Sum.

111.
A. 1. ridge.
H. 1.00

A.J.B.
18/12.

F.M. 18.00

Red bound.

8' 11" P20
11' 11" 20"

F.B. 54. b. 6.

(345.24
98° 51'

14350

14200

14000

13700

13450

•

12577.9

11800

10800

10200

9800

8850

Ocean.

Sandy beach.

Sand hills

Sand.

30.1" P. T.
18.

Brack.

Limestone

Sun Obs. at 3:00 p. 17.

Aug 2nd 1912 9.15 a.m.

Latitude by scale. 23° 47' 40"

R. M. 360° Return 360°

W	az. 324° 27' 0" { act 24° 18' 30"
W	324° 25' 0" }
W	143° 52' 30" { coast 64° 58' 30"
W	143° 50' 30" }
W	323° 15' 30" } act 25° 41' 30"
W	323° 13' 0" }

Line bearing of R. M.

90° 57' 6"

90° 56' 23' ~~6/11/12~~ CBP1 page 19

Obs. 119

Sun Obs. at 1800 p. 19.

Aug 4th 1912 9.20

Latitude by scale. 23° 47' 40"

R. M. 360° Return 360°

W	az. 324° 52' 0" { act 27° 25' 0"
W	324° 48' 6" }
W	144° 11' 30" } coast 61° 48' 30"
W	144° 7' 30" }

Line bearing of R. M.

88° 30' 37"

88° 30' 00" ~~6/11/12~~ CBP1 page 20

CBP1 page 20

24

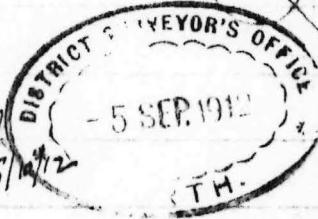
Sum Obs: Taken at 41400 p. 12.

July 31st 1912 4pm.
 Latitude by scale $23^{\circ} 49' 0''$
 R.M. 360° Return 360°

$\frac{1}{2}$ aye. $217^{\circ} 50' 0''$ $\frac{1}{2}$ $217^{\circ} 56' 0''$	act	$27^{\circ} 15' 0''$
$\frac{1}{2}$ $37^{\circ} 7' 0''$ $\frac{1}{2}$ $37^{\circ} 12' 0''$		$63^{\circ} 25' 0''$

Line bearing of R.M.

$90^{\circ} 2' 45''$ $CB. 1/38 CR$ $4/1/12$	$90^{\circ} 3' 13''$ $CB. PI$ page 19
---	--



Sum Obs: at 85850 p. 14

Aug 4th 1912 3645m.
 Latitude by scale $23^{\circ} 49'$
 R.M. 360° Return 360°

$\frac{1}{2}$ aye $218^{\circ} 10' 0''$ $\frac{1}{2}$ $218^{\circ} 14' 0''$	act	$29^{\circ} 12' 40''$
$\frac{1}{2}$ $37^{\circ} 24' 0''$ $\frac{1}{2}$ $37^{\circ} 28' 20''$		$61^{\circ} 29' 0''$
$\frac{1}{2}$ $216^{\circ} 45' 0''$ $\frac{1}{2}$ $216^{\circ} 50' 0''$		$27^{\circ} 46' 40''$

Line bearing of R.M.

$90^{\circ} 7' 8''$
$90^{\circ} 7' 55''$ $CB. PI$ page 19

This is to certify that these field notes have been taken in the field by me personally (or under my own personal supervision, inspection, and field check), and are the actual results of the observations and measurements.

W. H. Bennett

Licensed Surveyor.

Date, 9/8/12

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6.	Connection from Marsh Hill Lg. Station to Traverse of Salt Lake.	
9	Connection from corner at K.65 to Traverse of Salt Lake.	
11.	Boundary between P.L.	713 1/4 - 714 1/4.
15.	Line of fence between Indian Ocean and Salt Lake used as boundary between Harrington & Larimore stations.	

Sum Observations taken at 12500 p. 11.

July 28th 1912 about 9 a.m.

Latitude by scale $23^{\circ} 49' 0''$ S.

R.M. 90° Return 90°

-d	az. $54^{\circ} 15' 40''$	{	act. $23^{\circ} 37' 20''$
-p	$54^{\circ} 23' 0''$		
d	$233^{\circ} 57' 0''$	}	covert $65^{\circ} 41' 0''$
-b	$233^{\circ} 45' 0''$		

Line bearing of R.M. $89^{\circ} 59' 25''$
 $89^{\circ} 59' 3''$ *28*
 G.P. P1 page 19 *30/10/12*

103 GENE