

CC

REGISTERED SEP 5 1912

FIELD BOOK No.

55

Surveyor

A. J. Bennett

Containing Surveys in the

Districts

Gascoyne

Lyndon

Date

1912



REGISTERED

[p7008/11.]

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	...	152	18	...	489
	10	07		10	157		10	498
	20	08		20	162		20	507
	30	09		30	167		30	517
	40	11		40	173		40	526
	50	12		50	178		50	535
3	...	14	11	...	...	19	...	545
	10	15		10	...		10	554
	20	17		20	...		20	564
	30	19		30	...		30	574
	40	20		40	...		40	583
	50	22		50	...		50	593
4	...	24	12	...	200	20	...	603
	10	26		10	223		10	613
	20	29		20	230		20	623
	30	31		30	237		30	633
	40	33		40	243		40	643
	50	36		50	250		50	654
5	...	38	13	...	256	21	...	664
	10	41		10	263		10	675
	20	43		20	269		20	685
	30	46		30	276		30	696
	40	49		40	283		40	706
	50	52		50	290		50	717
6	...	55	14	...	297	22	...	728
	10	58		10	304		10	739
	20	61		20	311		20	750
	30	64		30	318		30	761
	40	68		40	326		40	772
	50	71		50	333		50	783
7	...	74	15	...	341	23	...	795
	10	78		10	348		10	806
	20	82		20	356		20	818
	30	86		30	364		30	829
	40	89		40	371		40	841
	50	93		50	379		50	853
8	...	97	16	...	387	24	...	864
	10	101		10	395		10	876
	20	106		20	404		20	888
	30	110		30	412		30	900
	40	114		40	420		40	912
	50	119		50	428		50	925
9	...	123	17	...	437	25	...	937
	10	128		10	445		10	949
	20	132		20	454		20	962
	30	137		30	463		30	974
	40	142		40	472		40	987
	50	147		50	480		50	999

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	...	1012	33	...	1613	40	...	2339
	10	1025		10	1620		10	2358
	20	1038		20	1645		20	2377
	30	1051		30	1661		30	2396
	40	1063		40	1677		40	2415
	50	1077		50	1693		50	2434
27	...	1090	34	...	1710	41	...	2453
	10	1103		10	1726		10	2472
	20	1116		20	1742		20	2491
	30	1130		30	1759		30	2510
	40	1143		40	1775		40	2530
	50	1157		50	1792		50	2549
28	...	1170	35	...	1808	42	...	2568
	10	1184		10	1825		10	2588
	20	1198		20	1842		20	2608
	30	1212		30	1859		30	2627
	40	1226		40	1876		40	2647
	50	1240		50	1893		50	2667
29	...	1254	36	...	1910	43	...	2686
	10	1268		10	1927		10	2706
	20	1282		20	1944		20	2726
	30	1296		30	1961		30	2746
	40	1311		40	1979		40	2766
	50	1325		50	1996		50	2786
30	...	1340	37	...	2014	44	...	2807
	10	1354		10	2031		10	2827
	20	1369		20	2049		20	2847
	30	1384		30	2066		30	2867
	40	1398		40	2084		40	2888
	50	1413		50	2102		50	2908
31	...	1428	38	...	2120	45	...	2929
	10	1443		10	2138			
	20	1458		20	2156			
	30	1473		30	2174			
	40	1489		40	2192			
	50	1504		50	2210			
32	...	1519	39	...	2228			
	10	1535		10	2247			
	20	1550		20	2265			
	30	1566		30	2283			
	40	1582		40	2302			
	50	1597		50	2321			

2096
1500
2151

Small post in corner
 { old post found lying in ground
 { unable to define position

C.B.
 22/6/12

470
 94

Small

Station A

peg

peg

injection

1

9324

8200

7600

6600

6100

5500

4500

3700

3000

2300

1500

500

269°21'0"

0.2 Δ sec PB. 53. p. 1

(3700)
 17° 33' 15"

hill

680
 94

Post

Survey of boundary fence S/P.L. 470
 94

2

6500

6000

5000

4900

2000 (apparently pulled up)

peg 4000

3000

Sandy

2000

Scrub

680

1000

470

94

00

94

(718.16
179° 34')

89° 14' 30"

Post 15000

15300

peg 14300

Sandy

13800

Sandy

12828.2

12500

12000 (pulled up)

12300

11800

peg 10800

10000

9000

8500

peg 7500

7113
179° 40'

Sandy

6500

Sandy

5800

680

5500

470

94

peg 4000

3500

2000

1900

limestone ridge

Sandy

800

Track

40

to Carnarvon

Post

89° 40' 30"

Station A

p.l.

(713.42
179° 40' 30")



3

10000

400 9000

100 8000

100 7000

150 6000

200 5000

4000

3000

2000

1000

00

6000

6°28'15"

TRAVERSE OF
SALT MARSH
CORR ¹²⁷⁰²/₀₅

388.54
97° 13' 30"

1550

Post
X
I

1000

Post. 20964.9

old post 0.4 link South
shifted fence line

Scrub

20500

19500

hillsbrush

18500

17500

peg 16500

15500

Saltmarsh

14500

13500

peg 12500

Cinnamon

11500

10500

9500

Saltmarsh

Scrub

peg 8500

7500

6500

AJB
2/24/12



Sun.
For 08:20
Sep. 25

Salt Bush

Sand.

Swine fence

Sand.

Salt Bush

Salt Bush

Witchhazel

Salt Bush

4

5000

4800

4000

3600

3000

2000

1700

1000

6100

5000

4000

3000

2000

1000

1700

17° 24' 30"

14900

19000

18000

17700

17000

16000

15000

14000

13000

12000

12000

11000

10000

Lake

Salt

Salt Lake

644.40
161° 10'

676.15
169° 3' 45"

X post.
2

①

Fence

C. J. B.
21/6/12

5

Low sand

East bank

$\frac{697.25}{174^{\circ}21'15''}$

400 5000
300 2000
500 1000
00
7°6'30"

400 4000
400 3000
400 2000
500 1000
00

400 5100
1000 4000
1500 5000
500 2700

400 2000
300 1000
00

347°55'30"

250 4500
200 4000
100 3000
2000
50 1000
50 00

17°51'45"

$\frac{646.27}{161^{\circ}36'45''}$

6700
6000
5000

(6)

Salt
Lake.

X post
3

in small patch
of sulphur
 $\frac{620.4}{155^{\circ}10'45''}$

C. J. B.
21/6/12

Low sand

East bank

$\frac{600.14}{150^{\circ}3'30''}$

(A)

Salt
Lake.

(3)

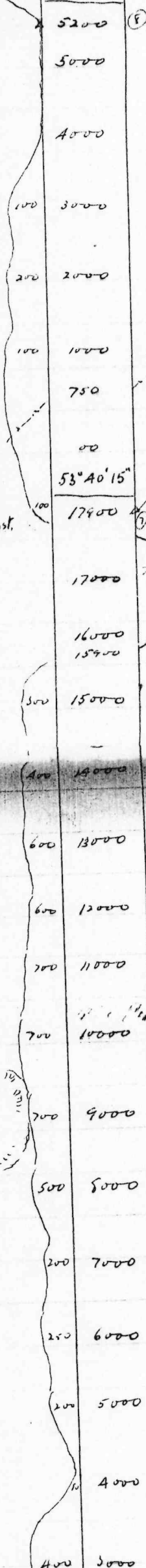
6

9.7/13
12.10/12

(-15.47
128° 56' 45"

Saltwater

Scrub.



post.

X
② 4

(533.46
138° 26' 30"

9.7/13
12.10/12

Saltwater

Limestone
Bluff.

Several islands
of various
sizes

Small
island

ab 4000

Salt
Lake.

Saltwater

Scrub.

hickbush

4100

500

Saltbush.

3100

400

2100

200

1000

00

22° 8' 45"

350

18100

(3)

$\frac{641.55}{160^{\circ} 28' 45''}$

300

17000

Saltbush

300

16000

Sumb.

500

15000

300

14000

700

13000

1000

12000

1200

11000

AgB
21/6/12.

1200

10000

Saltbush

1500

9000

Sumb.

1500

8000

1100

7000

1500

6000

1000

5000

500

4000

Saltbush

200

3000

Sumb.

200

2000

1000

Sumpshiri

00

2° 57' 15"

5/11

5/11

5/11

5/11

Hand-drawn map of a lake with depth soundings and a central island. The map includes a vertical line with depth markings (5000, 4000, 3000, 2000, 1000, 500, 00) and a horizontal line with a bearing of 353° 0'. A small island is labeled 'Island' with a depth of 1000. The lake is labeled 'Lake' and 'Sa'. A note at the bottom right says 'For Obs. 3/6/24'.

Soul Hawk
Soul.

635.57
 $158^{\circ} 57' 45''$

353° 0'

A 4500

4000

300-0

2 550

1000

✓ (12)

15.

2.

0

1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

1

✓

1

1

1

1

5

1

1

1

AJB
2/6/12

Salt Bush.

Emb.

631.23
157° 50' 45"

359.° 54' 45"

5400

5155

663.58
165° 59' 30"

X 5 post. Potable H₂O
Sumpoline

GJB
26/6/12

10

1410.15
122° 34' 30"

7300

(16)

300

6300

5400

2000

5300

1100

4300

1200

3300

1200

2300

1300

1000

00

319° 1' 45"

(586.46
146° 41' 30")

2000

12100

x post.

(17)

1000

11300

10300

10100

500

9100

5
4
3
2
1

GJB
25/6/12.

Sullbrook

Karara.

600

8100

700

7100

1000

6100

2000

5100

2500

4100

3100

2100

1000

00

352.21

352° 20' 30"

(571.37
147° 54' 45")

3000

(14)

2000

1000

00

24° 26'

Islands.

5
4
3
2
1

146° 59' 30"

27/6/12

Saltmarsh

Samb.

8200
8000
7000
6000
5000
4000
3000
2000
1000
50
105° 56' 15"

Saltmarsh

Sunshine

5000
4000
3000
2000
1000
50

(1) 459.46
114° 56' 30"

Saltmarsh

40° 53'

27/6/12

Saltmarsh

Samb.

9700
9000
8000
7000
6000
5000
4000
3000
2000
1000
50

(1) 622.15
155° 33' 45"

marsh.

Salt Lake.

Sunshine

16° 27' 5" Obs.

Sun. For Obs.
see p. 24.

16° 27'

(10)

Samb

12
17555

1000	17000
200	16000
1200	15000
500	14000
700	13000
700	12000
600	11000
100	10000
100	9000
	8000
300	7000
600	6000
700	5000
1000	4000

✓
✓
✓
✓
✓
✓

Sue Horn

Embl.

$$\begin{array}{r} 662.13 \\ 165^{\circ} 33' 15'' \end{array}$$
$$\frac{452.14}{120^\circ 33' 30''}$$

400	5000
600	2000
300	1000
	600
	00
	358°41'45"
200	2100
	1000
	00
	13°8'45"
(50)	2700
	2000
	1000
	00
	72°35'30"

A hand-drawn sketch map of a coastline, oriented vertically. The map shows a jagged line representing the shore. To the left of the shore, several elevation points are marked: 100, 500, 400, 300, 1000, and 1200. A circled number '21' is written near the 400 mark. A label 'marsh.' is written near the 500 mark. Further down, a label 'X post in station' is written, with '(wangan)' written below it. The word 'marsh.' is also written again near the 300 mark. The map is drawn on a piece of lined paper.

✓
✓
✓
✓
✓
✓

2.9.13

Post X
 (Larch) 9 0 $\frac{100}{275' 6''}$

24000
23000
22000
21000
20000
19000
18000
17000
16000
15000
14000
13000
12000
11000

La K.
5 1/2

2.9.13
27/6/12

Southward

(milksh)

Sum.

9000	100
8000	200
7000	200
6000	50
5000	100
4000	50
3000	150
2000	100
1000	150
00	

La K.
5 1/2

5° 57' 0"

(12)

18450

$\frac{640.58}{172^{\circ} 44' 30''}$

18000
17000

GAB
28/6/12

(Put on
Small 11.12.12)

4.11.12
Scrub.

1000
put X 0.100
16.5

14

1000 6000
5000
3400

2500

2000

1000

356° 5'

16000

15000

14500

13000

12000

11000

Lake.

(24) 16.05.53
151° 28' 15"

5411

GAB
28/6/12

10000

9000

8000

7000

6000

5000

4000

3000

2000

1000

00

327° 33' 30"

24500

24000

Lake

5411

566-27
141° 36' 45"

(25)

CAB

Dune barrier
milkweed

500	5000
500	5000
250	4500
500	3000
200	2000
200	1000
50	
78° 9' 30"	
6400	
50	6000
100	5000
100	4000
200	3000
200	2000

(21) 414 23
108° 33' 45"(625.47)
156° 26' 45"

Lake

5000

CAB
28/6/12.

150	1000
50	
54° 36' 15"	
5700	
150	6500
200	5000
200	4500
200	3000
2000	
150	1000
50	
18° 12' 15"	
7200	
300	7000
400	6000

(574.22)
143° 35' 30"(631.31)
157° 52' 45"

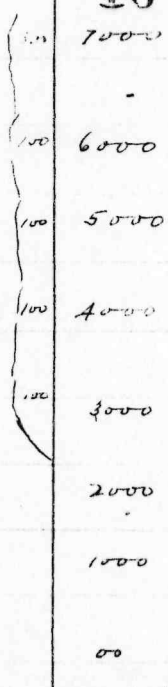
Lake

5000

Numerous
islands

1913
29/6/12.

16

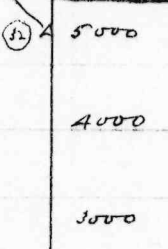


Salt marsh
hickbush

Mangroves
Lake

(651.17
162° 49' 15" (32)

20° 20' 15"



(Post in corner)

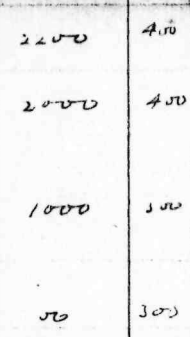
Point X
11

Salt marsh
hickbush

Mangroves

37° 31' 15"

(662.37
165° 51' 30" (31)



Crinoid stone

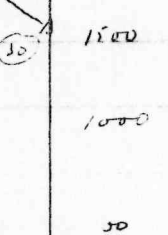
1913
28/6/12.

Salt marsh
hickbush

Lake

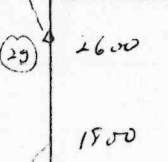
(372.22
93° 5' 30" (30)

51° 53'



(656.58
164° 14' 30" (29)

138° 47' 45"



Lake

154° 33' 30"

transgr.

Cairo
x 0
13
5° 27' 49"

16/12

(161 11
116 33)

19

2500

2100

2000

1500

00

86° 54'

10000

9000

8000

7000

6000

5000

4000

713
94

(564 31
183° 37' 45"

2
4
1
5
4

16/12

Saub.

713
94

Saltbush

Mulkbush

3000

2000

1000

00

40° 31' 45"

0000

5000

4000

3000

2000

19043

1000

00

27° 18' 15"

Large Etched
with islands
Carapace markings

(669.6
167° 16' 30"

2
4
1
5
4

Lease boundary
F.B. 57. P.A. 27° 45"

680
94

20

11/13
21/12

Saltbush

68
23/10/12
44° 5' 15"
Sec F.B. 56
P. 11.

A

2274.5

100

2000

200

1500

00

66° 4' 30"

200

6000

(43)

641.32
100° 28'

300

5000

(40.4
20° 2'

400

4000

Good scrub
country.

400

3000

400

2000

Lake

5411

X Cairn.

11/13
21/12

Scrub.

66° 27' 30"

300

4000

(42)

455.46
114° 41' 30"

500

3100

500

2000

400

1000

00

1° 9'

X 10
981 cal.
230° 43' 15"
648.17
40° 34' 15"

Limestone
12641.

630.15
152° 42'

(41)

2500

400

2000

400

1000

00

23° 27'

Lake

648.6
162° 1' 30"

21

6600

A/B
3/1/12

500 6000

300 5000

100 4000

100 3000

300 2000

1000 1000

100
00

Salt
Lake

662.59
40° 43' 30" to Cairn X

Saltbush

164° 9'

360° 0' 4084 cal
top of K FB. 56. p. 10. post. X
hickbush

14 6500

425.25
186° 21' 15"

Scrub

100 6000

100 5000

200 4000

100 3000

150 2000

100 1000

00

90° 30'

12400

702.17
175° 34' 15"

Saltbush

12000

11000

Scrub.

10000

9000

8000

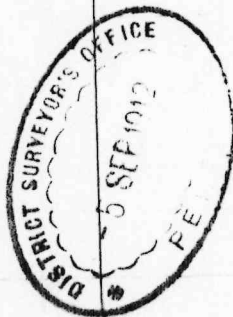
100 7000

100 6000

Sun For 024
see p. 23.

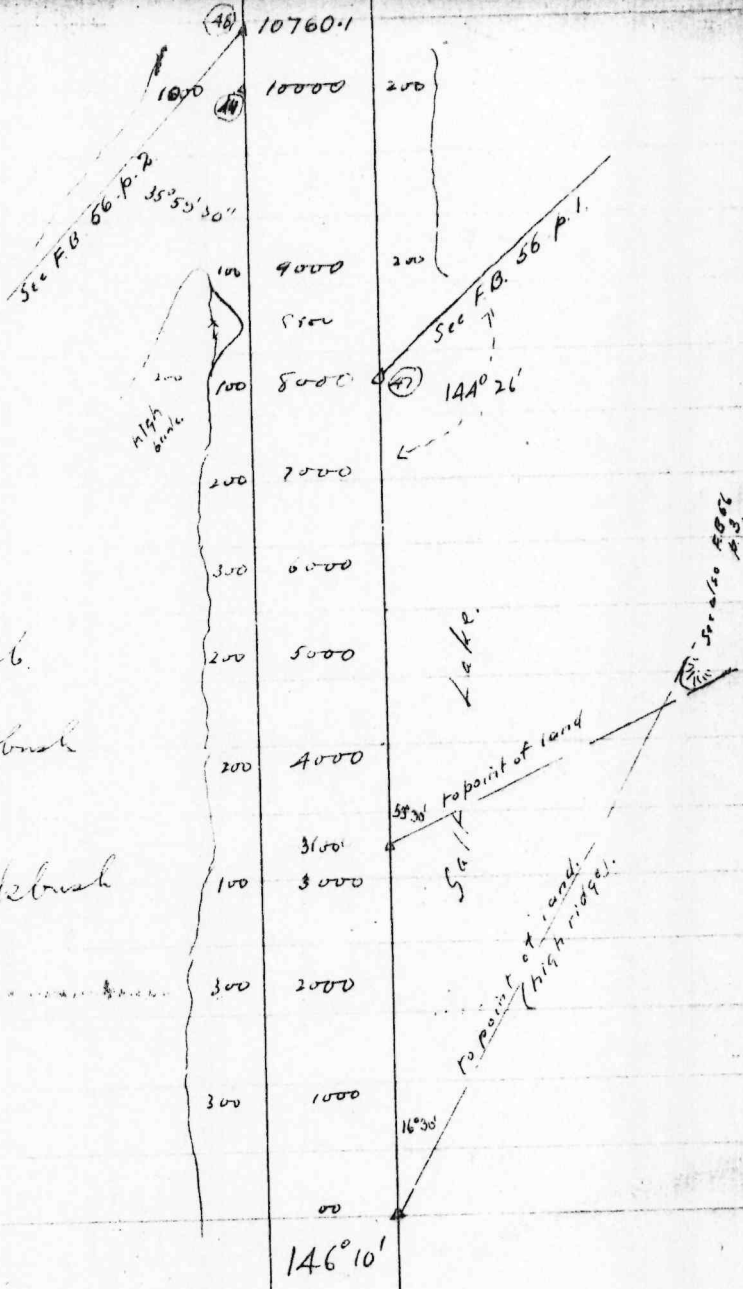


86° 4' 20" 025'



*AdB
9/11/12*

*Samb.
Sackbrush
Mullebush*



Lyndon Dist.

Sun Obs taken at 9000 p. 21.

on 2-7-12

Latitude by scale. $23^{\circ} 53' 10''$ S.

R. 2 360

Return 360°

d	3h 35m	45° 35' 10"	alt	24° 1' 0"
p		45° 42' 40"		
d		224° 57' 0"	cor alt	66° 43' 40"
p	3h 42m	225° 1' 40"		

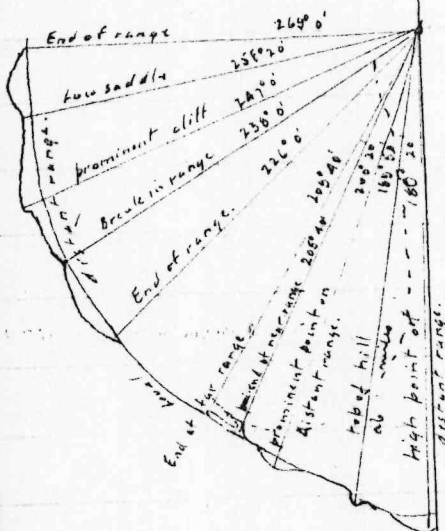
True bearing of R. 2.

 $266^{\circ} 4' 20''$ $266^{\circ} 3' 36''$

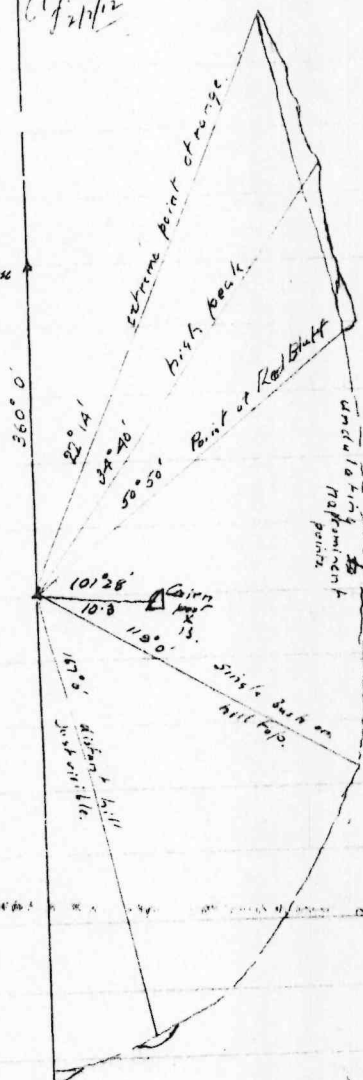
~~266° 3' 36"~~ 2/11/12
 CB P1 page 17

Cairn
 built of limestone
 8 feet high
 5 feet diameter
 small post marked 13
 (no trail poles visible).

lake apparently a
 maze of channels
 and islands
 with mangrove.



CJB 2/11/12



Sun Obs. at angle (11) p. 8. 25/6/12
 Latitude by scale $24^{\circ} 15' 50''$ S.
 R.M. 360 Return 360

*	9h 12m	az.	$34^{\circ} 57' 30''$	} alt $22^{\circ} 47' 30''$
*			$34^{\circ} 31' 30''$	
*			$213^{\circ} 57' 30''$	} count $66^{\circ} 34' 0''$
*			$213^{\circ} 57' 30''$	
*			$21^{\circ} 19' 0''$	} alt $24^{\circ} 6' 0''$
*	9h 23m		$33^{\circ} 13' 0''$	

Line bearing of R.M.

$14^{\circ} 0' 15''$
 $14^{\circ} 0' 33''$ ~~25/11/12~~
 CB P1 page 16

Sun Obs. at angle (16) p. 11. 26/6/12.
 Latitude by scale $24^{\circ} 10' 5''$
 R.M. 360 Return 360

*	3h 18m	az.	$299^{\circ} 10' 20''$	} alt $26^{\circ} 52' 0''$
*			$299^{\circ} 9' 0''$	

*			$118^{\circ} 17' 0''$	} count $63^{\circ} 54' 0''$
*	3. 26		$118^{\circ} 16' 20''$	
*	3. 29		$297^{\circ} 12' 0''$	} alt $25^{\circ} 6' 20''$
*			$297^{\circ} 12' 40''$	
*			$116^{\circ} 15' 20''$	} count $65^{\circ} 46' 20''$
*	3. 37		$116^{\circ} 16' 40''$	

Line bearing of R.M.

$16^{\circ} 27' 5''$
 $16^{\circ} 27' 28''$ ~~25/11/12~~
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Sun Obs. at $\times$ 12 p. 17 29/6/12.
 Latitude by scale $23^{\circ} 58' 0''$ S.
 R.M. 360 Return 360

*	3h 40m	az.	$83^{\circ} 49'$	} alt $22^{\circ} 49' 20''$
*			$83^{\circ} 52'$	
*			$263^{\circ} 9'$	} count $67^{\circ} 55' 40''$
*	3h 47m		$262^{\circ} 13'$	

Line bearing of R.M.

$227^{\circ} 5' 20''$
 $227^{\circ} 5' 16''$ ~~25/11/12~~
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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.

Arthur J. Bennett

Licensed Surveyor.

Date, 29/7/12.

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Sun Obs at angle ② p 4. 23-6-12.
Latitude by scale. $24^{\circ} 28' 20''$ S.
R to 360° Return 360°

~~X~~ 36.30 m. by $115^{\circ} 38' 0''$ } act $24^{\circ} 11' 0''$
~~X~~ $115^{\circ} 29' 0''$ }

~~X~~ $294^{\circ} 53' 0''$ } coalt $66^{\circ} 37' 0''$
~~X~~ 36.37 m. $294^{\circ} 44' 30''$ }

True bearing of R.R.

$197^{\circ} 24' 30''$

$197^{\circ} 23' 37''$

(very cloudy day.)

(True Bearing. $197^{\circ} 24' 15''$)

OK
7/11/12

