

3

FIELD BOOK No. 82

Surveyor A. J. Bennett

Containing Surveys in the
Districts Lyndon

Date October



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	1·95		20	5·64
	30	·19		30	2·01		30	5·74
	40	·20		40	2·07		40	5·83
	50	·22		50	2·12		50	5·93
4	...	·24	12	...	2·18	20	...	6·03
	10	·26		10	2·25		10	6·13
	20	·29		20	2·30		20	6·23
	30	·31		30	2·37		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	2·63		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	...	23·39
	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	...	12·54	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			

7. x m o u h

Car $\frac{4272}{08}$

686.4
171° 31'

4350

200

Fig 13
offshore

3800

300

Sand ridge

Low
Semb.

2800

350

2000

350

1000

250

00

158° 30' 15"

666.34

166° 38' 30"

6800

150

Sand ridge

5800

150

4850

100

4100

100

3100

100

2100

100

1300

100

1100

100

1000

100

00

171° 52'

684.18

171° 4' 30"

6500

AB
89 post.

6000

at 1 1/2 miles to range.

5000

Low
Semb.

4000

100

3000

150

2000

100

Fig 13
offshore

5414

Exmouth

A. J. B.
12/10/12.

Exmouth Gulf

3

8000

200

7000

250

6000

600

5500

5000

100

4000

100

3000

150

2000

100

1000

100

00

137° 3' 15"

699.46
174° 56' 30"
post B
90

4600

1500

2 mile

Traverse - 7.

A. J. B.
11/10/12

Exmouth Gulf

3000

150

2000

200

1000

250

00

142° 7' 15"

688.27
172° 6' 45"

4000

200

9000

100

2000

200

1000

250

00

150° 6' 45"

Exmouth Gulf

Sand ridge

Sand.

Red sand hills

Sand ridge

Sand.

Spur

2500
600
Sampshire
marsh

Sand ridge

Low
Sand.

AGB
12/10/12.

Scp. 8
for contouring

600.23
150° 5' 45"

3900

①

Y

3300

K.W.M.

sup. 7.

81° 15'

2500

2400

Deepenment
at 20 feet.

X

2300

2200

Scp. 5.

46° 41' 30"

1200

AB post.
91

1000

50

133° 28'

2000

200

656.47
143° 36' 45"

2000

200

low ground

1000

Sand.

50

157° 25' 15"

12800

2100

638.31
154° 37' 45"

12000

150

11000

150

10000

200

4000

200

8000

200

Sand ridge

Sand.

AGB
12/10/12.

X

S

G

K

L

L

O

M

X

E

A.B.
12/10/12.

5

(526.49
131° 42' 15"

Mangrove Swamp

200	3200
	2900
	2700
250	2100
350	1100

Sampshire
marsh.

00
137° 23'

(552.57
138° 14' 15"

1600

Mangrove
Swamp

1000

Sampshire

00
179° 9'

1900

1200

(220.36
55° 9'

1000

1000

Mangrove Swamp

00

(643.2
173° 15' 30"

1500 1600

Sampshire
marsh

A.B.
12/10/12.

Mangrove Swamp

500 1000

800

500

00

310° 44'

(655.49
163° 57' 15"

200 1000 3400

Channel

500 2500

150 2000

1800

1600

Samp.

100 1000

(186.46
46° 41' 30"

00

326° 47'

p.A.
X

Leaves of mangrove swamp

AJB
12/10/12

6

Mangrove Swamp

Scaphine

AJB
12/10/12

Mangrove Swamp

Scaphine mound

Deposited

Mangrove Swamp

Scaphine

1000

00

356° 54'

1400

307.20
76° 50'

1100

600

200

00

100° 4'

554.2

188° 30' 30"

2300

110 2000

100 1000

00

141° 33'

564.36

141° 5' 45"

3200

3000

2000

1000

700

00

180° 24'

538.32

134° 38'

1400

500 900

1000 00

225° 46'

1000 1400

559.40
139° 55'

1000

500

300

200 00

185° 41'

A.B.
13/10/12

page A.
324.26
81° 6' 16"

571.3

112° 22'

1870

464.43
116° 10' 45"

1700

1000

Mangrove Swamp

00

A.B.
13/10/12

17° 52'

1800

643.54
160° 59'

Deep channel

600 1000

Spinnifera

00

29° 31'

2400

410.44
102° 41'

Mangrove Swamp

200 2000

600 1000

3 1/2° 12' 36" Cls'd

Scrub.



13/10/12. 8 a.m.

R.R. 360° Return 360°

541.13
135° 18' 15"

312° 12' 30"

134° 22' 0" alt
134° 34' 0" 28° 11' 0"

Checked result.

12° 12' 11" TB

Calc 107 p 73. 13/10/12

1800

1400

313° 57' 0" Coalt
314° 9' 20" 60° 49' 0"

22.14.44.

Scaled from standard
true value of AB 91

Latitude 22° 14' 0"

A. J. B.
13/10/12.

54 H.

Entrance

6000	8
5000	150
4000	200
3000	250
2000	200
1000	200
00	

Rocky

Sand ridge

Red sand
hills

682.44
170° 42' 15"

133° 22'

5800	100
5000	100
4000	200
3000	200
2000	100
1000	100
00	

ridge

A. J. B.
13/10/12.

54 H.

Entrance

3000	200
2000	100
1000	100
00	

Sand

636.27
159° 6' 45"

142° 40'

3600	③
3000	150
2000	200
1000	100
00	

Sand ridge

150° 5' 45"

163° 33' 30'

Station Z page A.

Traverse of Entrance Gulf.

A.B.
13/10/12.(616.24
154° 6'

3100

2500

1500

100 1500

150 1000

Samb.

00

202° 14' 30"

(601.9
155° 15' 15"

100 1100

1000

00

233° 2' 30"

100 3700

50 3400

100 2400

(678.56
169° 44'A.B.
13/10/12.

100 1600

100 600

Samb.

150 00

221° 46' 45"

100 2800

(547.10
136° 47' 30"

350 2100

200 1100

1097

1000

Plain country
AB post
Samb
Range mt. hills

300

00

178° 34' 30"

6600

(539.9
134° 42' 15"

6000.

Pole erected here.
(temporarily)
about 12 feet high
with bushes attached

A.B.
13/14/12.

mangrove.

mangrove.

Sun.

Sun. 06.

13-10-12.

4h 30m

R/L 260°

Return 260°

* 26° 28' 40" } with
* 26° 24' 40" } 62° 40' 0"
* 86° 6' 20" } alt
* 88° 17' 20" } 26° 35' 30"

Latitude 22° 15' 15"

5200

4700

4400

3900

2900

1900

1400

900

500

00

194° 21' 30"

4000

3000

2000

1000

00

167° 30"

4700

4000

3000

2000

1000

00

176° 26' 15"

A

Sandy
(26.29
66° 15'

Sand.

Standard horizon
reality
latitude
22-15-9-
meridi
22-15-14

B
93

(52.37
163° 8' 30"

Sand

Sand

Shrub

G.B.
6.1/10/12.

$\frac{597.54}{145^{\circ} 28' 30''}$

11
1000

179° 25' 15"

6200

(13)

6000

500

5000

400

4000

300

3000

50

2000

300

1000

200

00

209° 56' 45"

600

2900

(15)

$\frac{611.42}{152^{\circ} 55' 30''}$

2800

300

1800

1200

1000

200

00

182° 52' 15"

2500

(17)

2700

1500

$\frac{685.31}{64^{\circ} 35' 45''}$

Mangrove

1700

1000

Swamp.

200

66° 7' 15"

previous
foot post.

295° 14' 15"

A.

Spurges

Sumb.

Sumb.

A.B.
11/10/12

153° 49' 30"
K.

next page

141° 18' 45"

Spinnifex

line
margin

7900 100

7000 500

6000 600

5000 400

4250

4000 300

Low red
sand hills

300 3000

Spinnifex

200 2000

line
margin

100 1000

Red sand
hills

A.B.
11/10/12

H.W.M.

00

152° 8' 15"

534.16
153° 34'

4900 (20)

4700 200

4000 300

200 3000

Spinnifex

300 2000

1700

1600

P. 21.

300 1000

00

198° 34' 15"

1800

B 64. 643.24
160° 51'

1000

C.B.
11/10/12

Sand.

13

16800

15800

14850

Sprinkles

13800

12800

Sprinkles

11850

Sand
Sandy
soil

10800

Line of pines

2000

9800

600

8800

at 4000

500

7800

AB
Culvert

7600

100/200

Sandy shale

Line of pines

100

6600

200

Sandy

600

5600

4600

200

4000

400

Sprinkles

3000

600

Salt
marsh.

Sandy marsh
(under)

2000

500

1000

200

500

(56.15
141.18'45")

00

140°44'30"

K

p. 12

Connection to well (King x Watson).

Sun Obs. at B 35

A. 30 pm. 14/10/12.

R. M. 360°

Return 360°

	Wg.	297° 50' 40"	}	act.	25° 44' 30"
		298° 2' 0"			
		107° 26' 40"		const	65° 3' 30"
		107° 36' 0"			

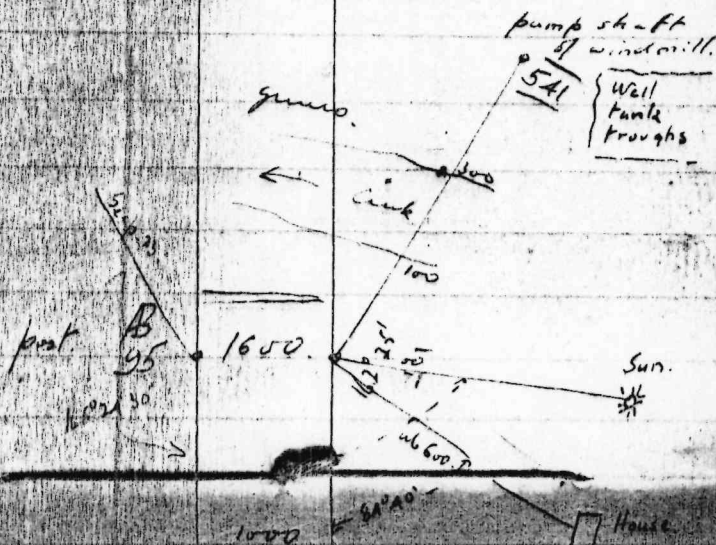
Latitude 22° 22' 40"

Line bearing of R.M.

343° 48' 14"

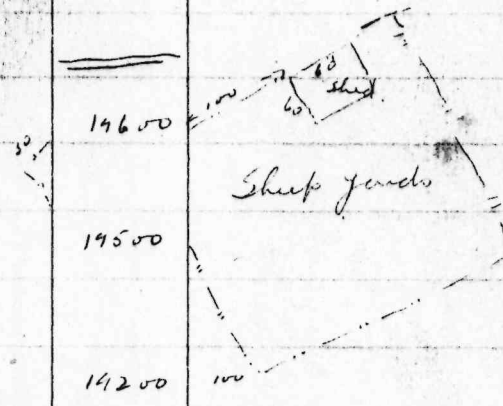
~~4° 21' 25"~~

A.B.
14/10/12



A.B.
14/10/12

M.
163° 48' 20"
~~154° 06' 5"~~



M. 19000.

18800

Spinifex

17800.

Good
sandy
soil

16800

9/13
17/10/12

15

3000

2000

300 1000

600
Spinifex

200 00.

56° 42'

300 2800

(23) 1415.81
103° 52' 45"

300 2000

700 Samphire

1500

1000

1800

Mangroves

00.

2000

340° 35'

1596.87
147° 14' 15"

5400

(2) 2000

5000

Salt marsh.

4000

2000

9/13
17/10/12

3000

2000

1000
Marsh partially
covered with
Samphire

Red sand hills

Mangroves

1000

00

1000
Marsh.

11° 21'

3500

(2)

1261.34
65° 23' 30"

3000

Salt marsh.

2000

Mangroves

1000

Samphire
(Scrubland)

1615.18
153° 44' 30" R

00

Scrub 13.

Scrub 12.

125° 57' 45"

Traverse of Exmouth Gulf.

17/10/12.

16

to pole near B

92

(113.13)

28° 18' 15"

3450

171

1000

00

15° 35'

(62A)

15° 30' 15"

Liby

4000

B post.

96

200

3700

Bay of Rest

100

3000

Mangroves

50

2000

Sand.

50

1000

00

37° 5'

(60A)

15° 26' 00"

1400

(24)

50

1600

Sand.

to pole at B

92

(281.0)

70° 17' 30"

3510

241

100

600

00

66° 41' 45"

17/10/12

200

2400

(25)

300

2000

(573.47)

143° 26' 45"

200

1000

00

30° 8' 45"

Mangroves

(613.7)

153° 26' 45"

6200

(24)

Sandy.

6000

5400

5000

500

4000

100

Spencer

3500

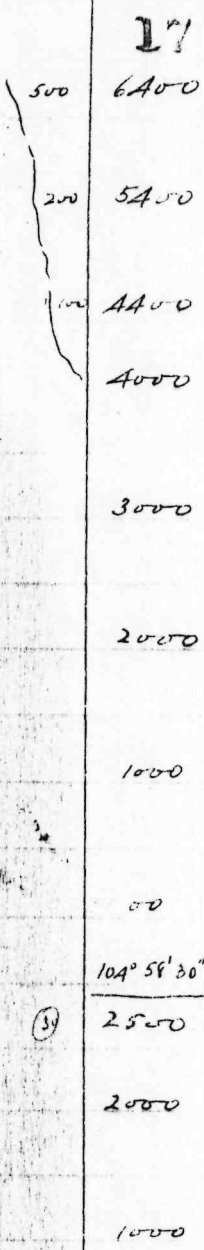
50

3000

Mangrove Swamp.

A.B.
17/10/12.

Exmouth Gulf



shingle
flat.

low sand ridge

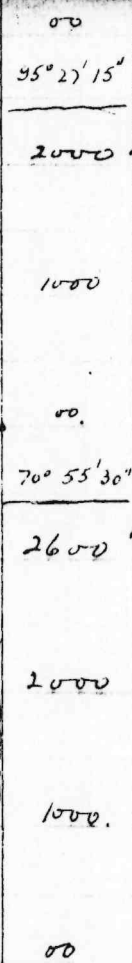
$$\frac{681.54}{170^{\circ} 28' 30''}$$

Sand.
(now lying)

A.B.
17/10/12.

to pole near AB
92. 339° 36"

$$\frac{365.18}{91^{\circ} 14' 30''}$$



Sand.

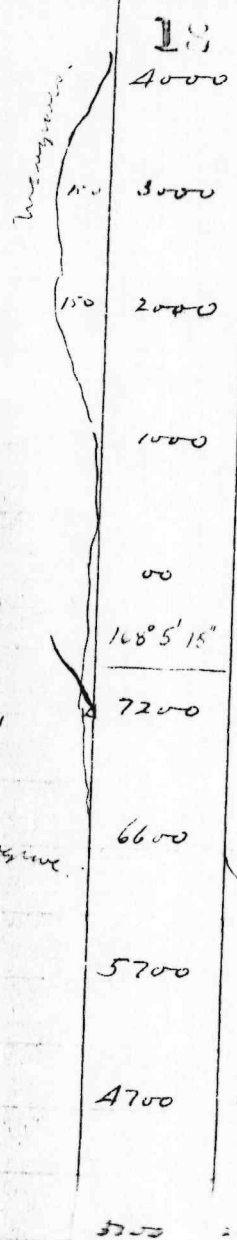
$$\frac{554.36}{138^{\circ} 59'}$$

Landing
place.

$$\frac{664.1}{166^{\circ} 0' 15''}$$

18
18/10/12

F x m o u t h

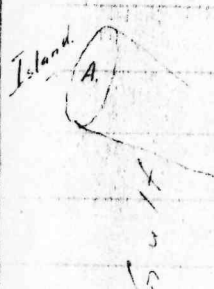


Spumex

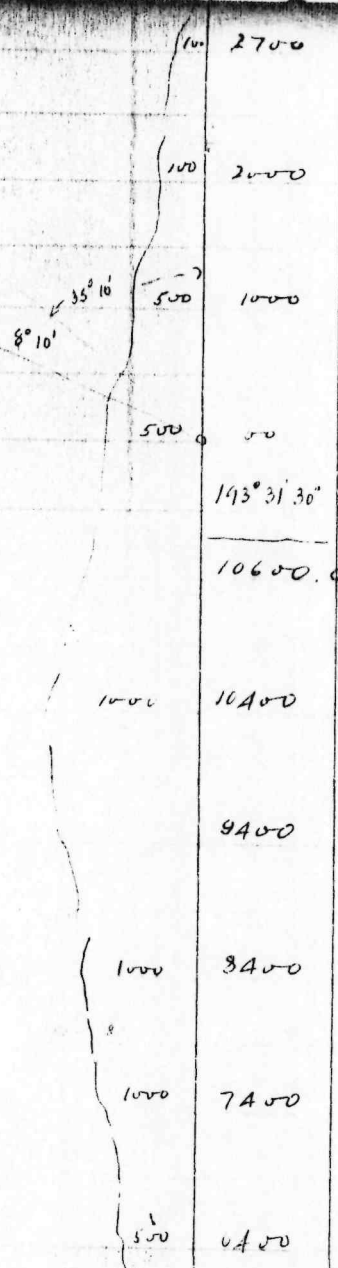
low limestone
dirt

Scrub

18/10/12



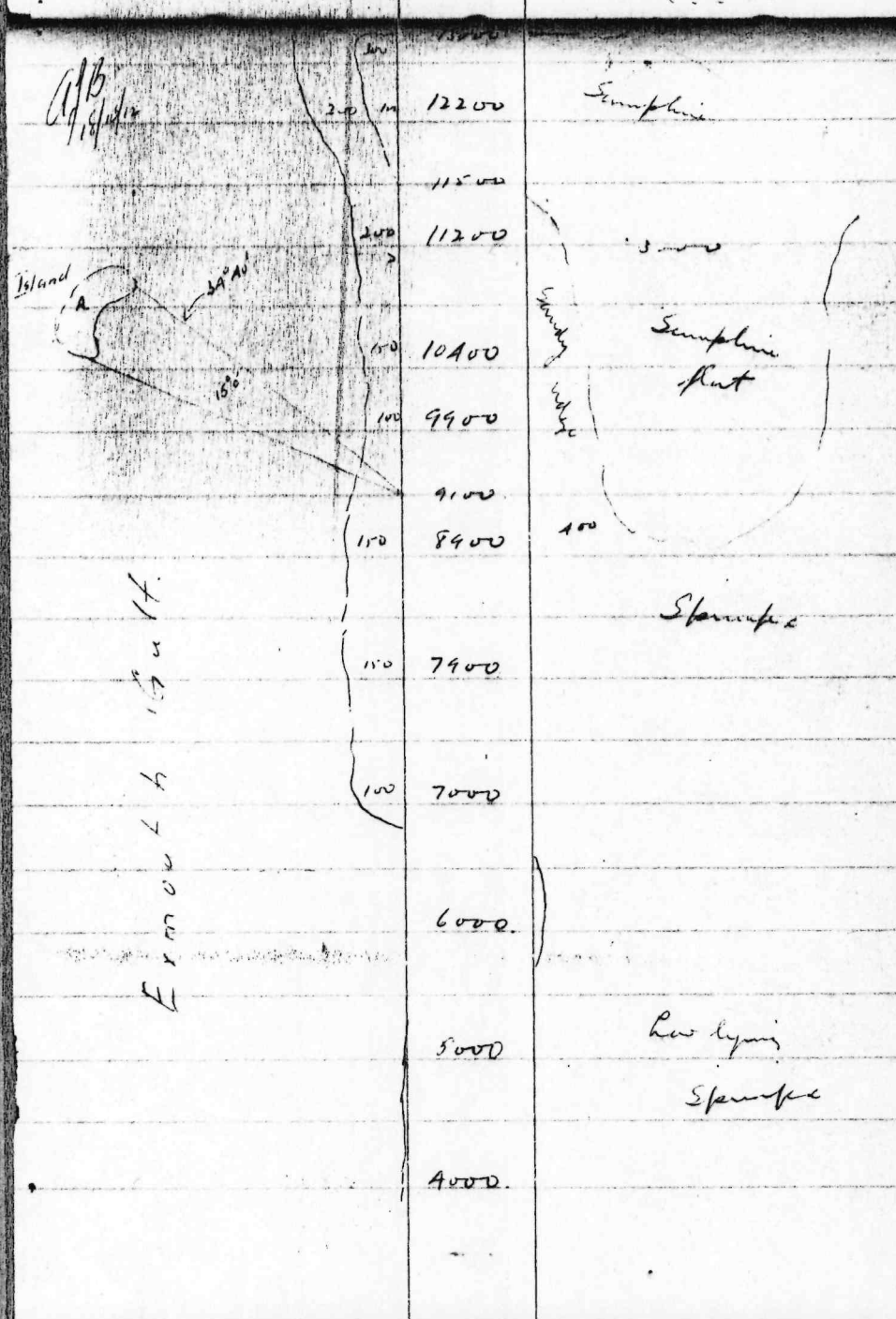
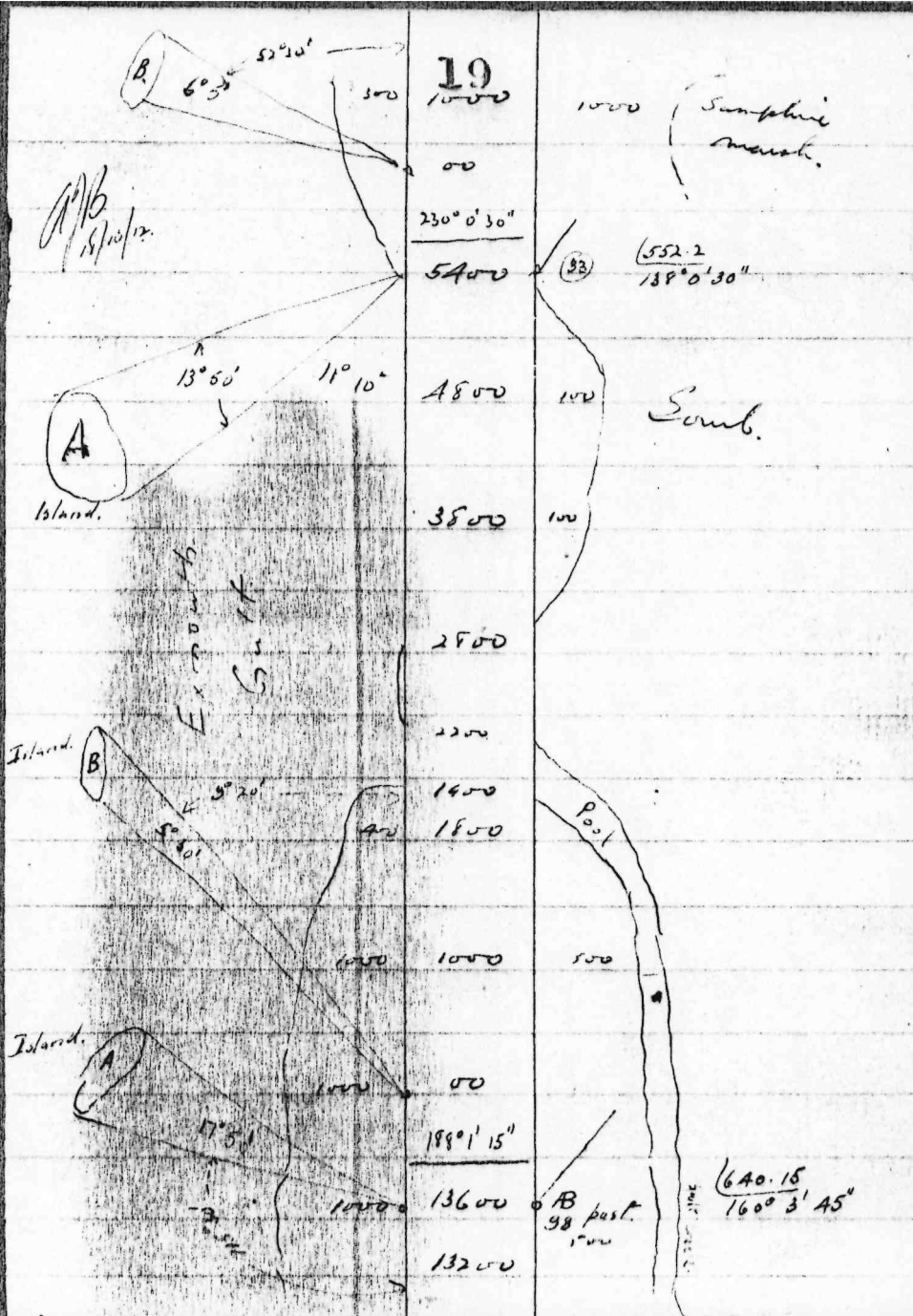
F x m o u t h



Scrub

365.45
91° 27'

Scrub
x
Scrub



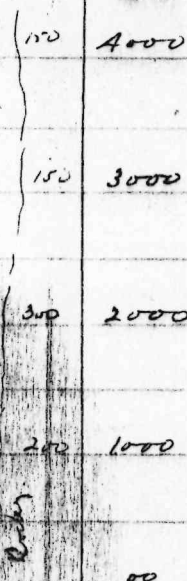
Q9B
14/10/12

20

B
99
post.

Gr X

Gr X



213° 7' 30"

1615.5
154° 31' 15"

150 3900

(36)

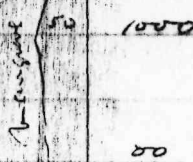
3000

Soub.

2000

A

155
172° 40'



Q9B
14/10/12

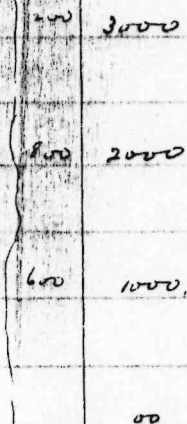
238° 36' 30"

3200

(35)

1686.42
166° 40' 30"

Gr X



225° 17' 15"

1701.7
178° 16' 45"

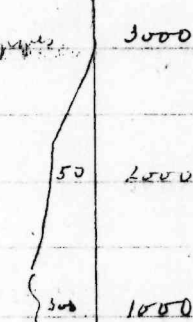
300 4600

(34)

100 4000

A

150
171° 40'



Soub.

C.F.B.
6/7/10/12.

21

2000

200 1000

00

220° 9'

150 2000

(40)

685.53
171° 28' 15"

Rocky

150 1000

41° 0'

Swires

00

211° 37' 30"

3700

(39)

687.62
171° 55'

Island 14° 50'

9° 10'

7° 40'

83° 30'

Island

300 1000

Sand

150 2000

400 1000

Limestone

00

203° 35' 45"

2500

~~2500~~

(38)

400

685.25
171° 6' 15"

200 2000

1000

00

216° 29' 30"

6820

6800

(37)

706.31
176° 37' 45"

Rocky

Gulf

50 5800

100 4900

150 4000

B

Exmouth Gulf

Rocky

C.F.B.
6/8/10/12.

AB
A1/1/12

22

500

1000

800

00

287° 45' 30"

(520.45

135° 16' 15"

1900

1840

1850

1000

500

100

00

337° 34' 30"

1600

(565.20

141° 20' 1"

20

1000

00

16° 14' 45"

2000

(625.2

157° 0' 30"

managers

1500

600

1000

(A3)

spanifor

300

00

39° 14' 30"

200

1300

(A2)

(403.0

100° 40'

300

1000

80° 4' 15"

00

(A1)

315° 54' 30"

managers

5400

300

5200

400

AB post.
100

500

4400

(A1)

(320.57

50° 4' 15"

3400

50

2400

2000

managers

A.B.
19/10/12

670

sec p 14.

AB
95.

661.38
165° 24' 30"

329° 12' 45"

14500

(46)

554.11
138° 52' 45"

14300

13500

A.B.
19/10/12

Strong

12500

Small.

11500

11200

10200

11/11/12
11/11/12

9400

11/11/12
11/11/12

8400

8100

Lineation
11/11/12
11/11/12

7100

index
11/11/12
11/11/12

6600

5600

5500

4500

Sandy

3600

Spinks

60° 56' 45"
sec p 24.
with force.

3000

2000

(47)

1600

400.

1200

500

1000

Springer

$$\begin{array}{r} 243.55 \\ 60^\circ 58' 45'' \end{array}$$

CAB
12/14/12

25
5000

400 4000

3000

2000

1000

00

187° 51' 45"

4200

4000

3000

2000

1000

1000

mangroves

Sand.

Sand.

to 2 miles to range.

635.58
159° 54' 30"

(51)

Salt
marsh

Sand.

mangrove

CAB
12/14/12

00

208° 52' 30"

300 2100

1600

1200

1000

00

171° 34' 30"

5500

3000

2000

1000

00

96° 17' 45"

mangroves

Rocky
(570.48)
142° 41' 45"

Salt
marsh

mangroves

418.52
104° 43'

Salt
marsh

257.7
64° 46' 45"

Sandy
Sand.

(A5)

APP
21/10/12

26
10500

1000

Spencer

9500

200
500
marsh

9500

200

mangroves

7500

500

6700

6500

6450

5600

series
low limestone
hill

4700

3700

Semb.

200 2900

500 1900

1000

200 00

202° 36' 30"

2800

(54) 455.45
113° 56' 15"

2000

300

1000

500

Deer

mangrove

136° 33'

(605.46)
151° 26' 30"

7600

500
(53)

Swamp
(Fidal)

6600

500

4000

5600

500

Red sand hills

mangrove

4600

300

2100

500

3600

AB post.
102

200

300

3000

200

2000

Spencer

mangrove
(mossy hill)
here

200

1000

500

marsh

00

165° 6' 45"

(629.1)
151° 15' 15"

5300

1000

mangrove

(62)

5000

200

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, 22/10/12.

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Sur Obs. at B₁₀₃

21-10-12.

4h 45m.

B₁₀₃ 360°

Return

360°

* 274° 40' 20"

act.

22° 43' 30"

* 274° 51' 40"

* 94° 14' 20"

coalt.

67° 55' 30"

* 94° 30' 40"

Latitude 22° 25' 0" S.

Edge of mangrove
500 800

4100

FB 63/

(56)

3200.

B₁₀₃

post.

3000

Soul.

2500

2000

500

1000

1000

500

800

172° 47' 50"

10500.

(55)

10500

Mangroves.

(600. 47)
150° 11' 45"

Sur.
JAB
21/10/12.