

50.

REGISTERED SEP 5 - 1912

FIELD BOOK No. 56

Surveyor *A. J. Bennett*

Containing Surveys in the

Districts *Lyndon*

Traverse of Salt Lake

Date, *July 1912*

[v7008/11.]

DISTRICT SURVEYOR'S OFFICE
SEP 5 1912

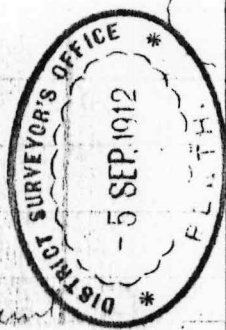
Table of Versed Sines for each 10 Minutes from 2° to 25° inclusive.
Correction to 100 links for Slope.

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	·10		40	1·73		40	5·26
	50	·11		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	·35		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			

CAB
3/1/12.



Sum

Southward

Return to

CAB
3/1/12.

See also
p. 8.

Traverse of Salt Lake (Lyndon District)

Corr
Plan 77/300

1

1000

Salt
Lake.

1000

00

115° 32'

3000

① $\frac{614.51}{134^{\circ} 57' 45''}$

2000

1000

to station ④

X
14.

00

90° 30'

see p. 21
F.B. 56

Station 44

X
14

1500

3000

1200

3000

2400

24

100

2000

200

1000

200

700

$\frac{577.44}{144^{\circ} 26'}$

00

181° 44'

Station 47

See F.B. 55 p. 22.

12702

05.

11/13
3/12

Scrub.
Milkbrush

6677.5

143.55
35° 59' 30"

345 E. 8.55 P. 22.

500 6000

300 5000

200 4000

3000

100 2000

200 1000

182° 10'

3000

1617.4
154° 17' 15"

200 2000

200 1000

156° 27'

639.17
154° 48' 30"

4100

ab 3000

hillsbush
Scrub

100 3000

300 2000

1500

1000

Salt Lake.

high bank

ab 3000

176° 38'

4000

1475.36
118° 54'

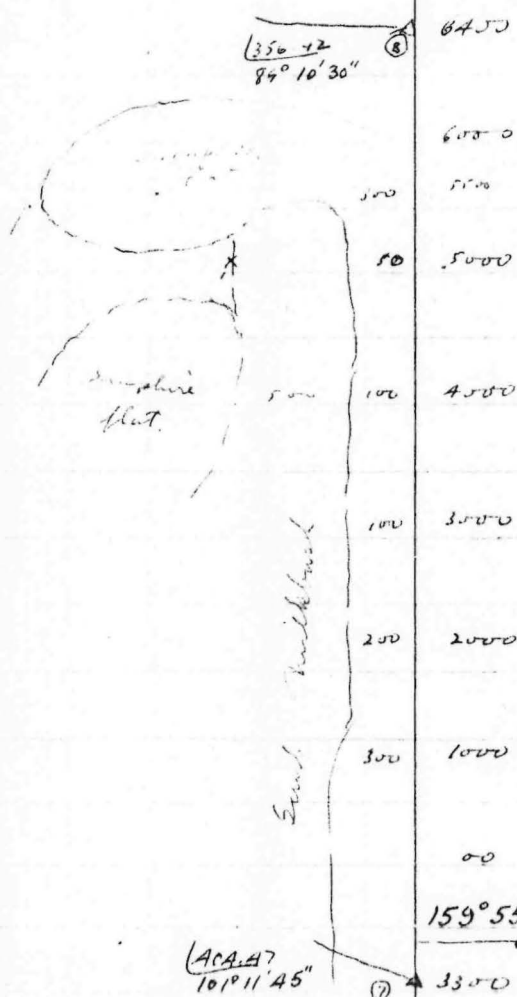
Saltbush

Scrub.

3000

2000

Cham. Piccolo
with bush branches
covered with sand

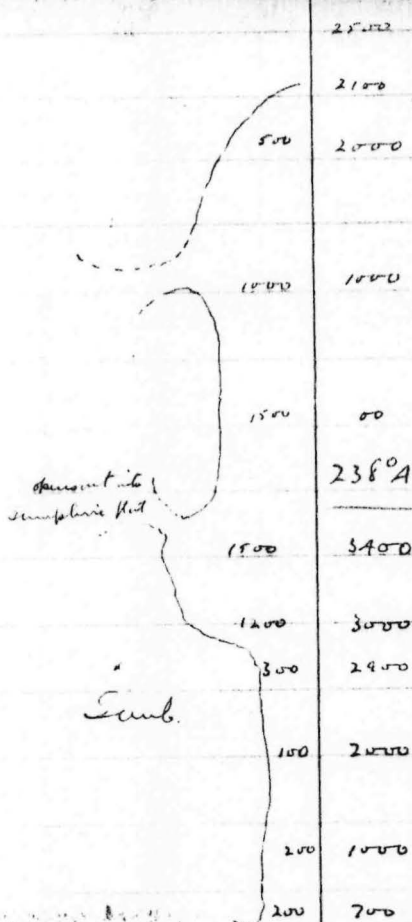


$\frac{251}{2}$
 $\leftarrow 40^{\circ} 31'$

Small
islands

5014

A. J. B.
8/5/22



Bank

Salt Lake

238°43'

$$\begin{array}{r} 442.1 \\ 123^{\circ} 0' 15'' \end{array}$$

29°45' - point of land
Salt
Lake

 $144^{\circ} 26'$

State (A2)

Sec F.B. 55 p. 42

A.B.

Sph.

649.3

162° 15' 45" (11)

300

3100

200

2000

300

1000

50

60° 53'

425.36

106° 21' 30" (10)

300

5200

5000

300

4000

100

3000

100

2000

500

1000

1000

50

134° 31'

1000

10000

458.16

114° 34'

A.B.

Sph.

Sumb.

800

9000

300

8000

200

7000

200

6000

200

5000

300

4000

400

3000

East Sand beach

1300

200

2000

100

1000

200

50

69° 6'

S
o
l
t
L
a
k
eS
o
l
t
L
a
k
eabundance of
small gypsum
crystals

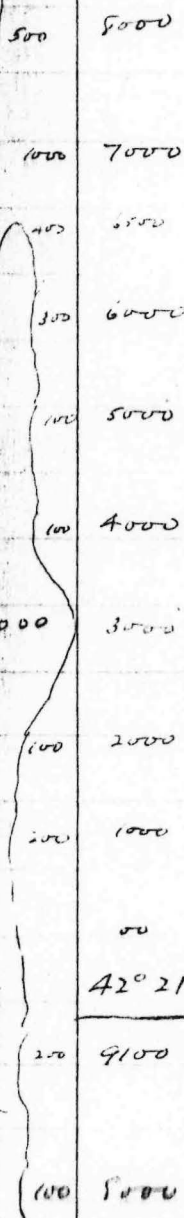
5

AB
5/11/12

Sapphire
Flat

Small

Sandy bank



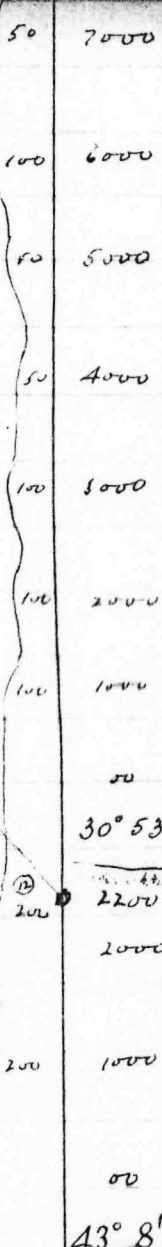
(674.7)
168° 31' 45"

1/4 1/2

AB
5/11/12

(670.55)
167° 44' 30" Port X 15

Sandy bank
near Landing



1/4 1/2

AgB
5/1/12

Sand.

Sample

45° 49'

2000

614.24
153° 37' 15"

1000

Sample
flat.

19° 27'

(5700)

5700

618.25
154° 36' 15"

5000

Sample
flat.

4000

3000

Sample

200

2000

200

1000

AgB
5/2/12

652.31
145° 34' 15"

354° 3'

4300

100

4000

Sand.

100

3000

100

2000

300

1000

00

28° 24'

664.12
166° 3'

200

11200

11000

Sand.

Sandy beach

200

10000

500

4000

500

8000

1/4 K

1/4 K

1/4 K

1/4 K

1/4 K

1/4 K

1/4 K

1/4 K

No prominent marks on east shore
to be fixed

AB
6/7/12

Low sandy
beach

1000

4300

(545.10
136° 17' 30"

4000

3000

2000

1000

500

235° 22'

5400

5000

4000

3000

2000

1500

1000

500

280° 26'

1600

1000

500

300° 24'

2300

2000

1000

500

343° 41'

3100

2000

1000

(539.48
134° 57'

Sample

8500

2000

Sample

1200

500

300

AB
6/7/12

(640.5
160° 1' 15"

300

300

(546.53
136° 43' 15"

500

100

300

(471.28
117° 52'

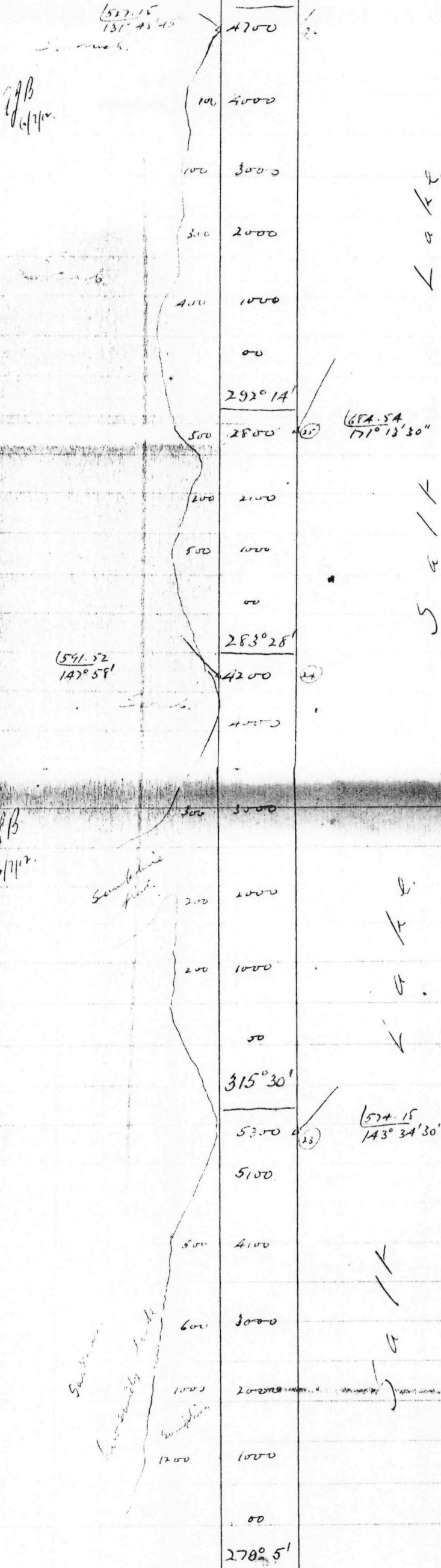
Submerged
A. low beach

54 / 1 / 4

Low sandy
beach

Lake

54 / 1 / 4



527.15
131° 43' 45"

4700

GFB
6/7/10

100 4000

100 3000

300 2000

400 1000

00

292° 14'

500 2800

654.54
171° 13' 30"

200 2100

500 1000

00

283° 28'

4200

591.52
147° 58'

4000

300 3000

GFB
6/7/10

Sampled here

200 2000

200 1000

00

315° 30'

5300

574.15
143° 34' 30"

5100

500 4100

600 3000

Sampled here

1000 2000

Sampled here

1200 1000

00

270° 5'

614.22
158° 37' 15"

1913
Oct 12.

10/1/12.

Soul.

subtush

99B
6/4/12.

6/1/12.

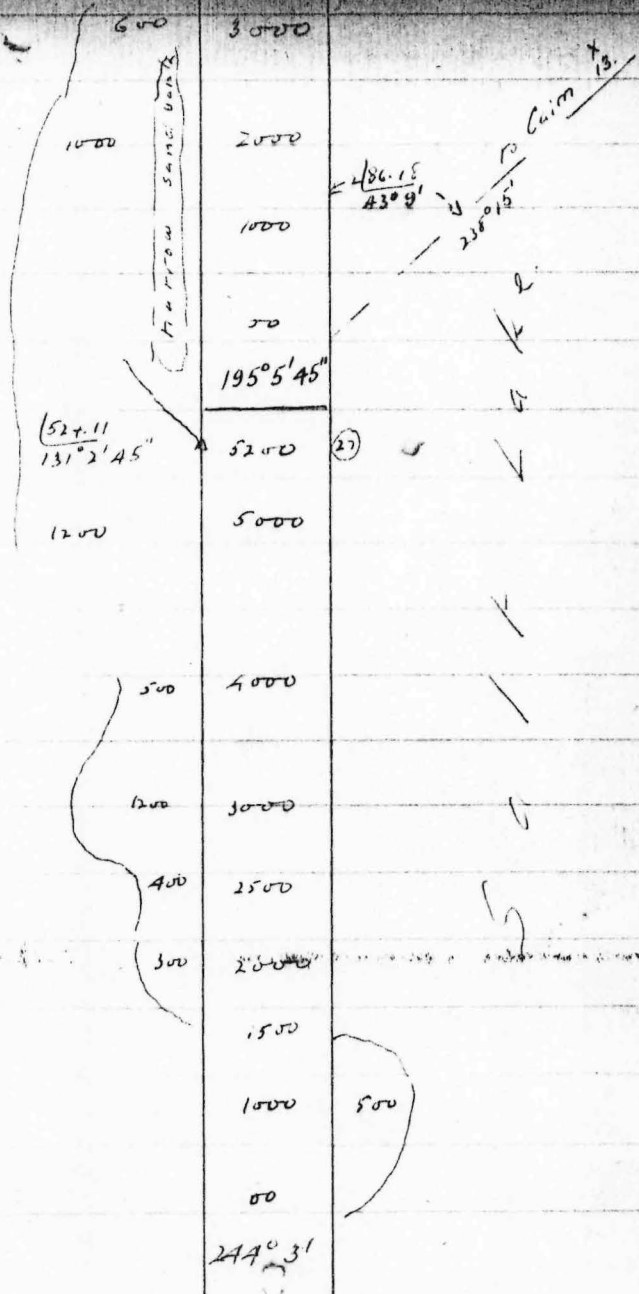
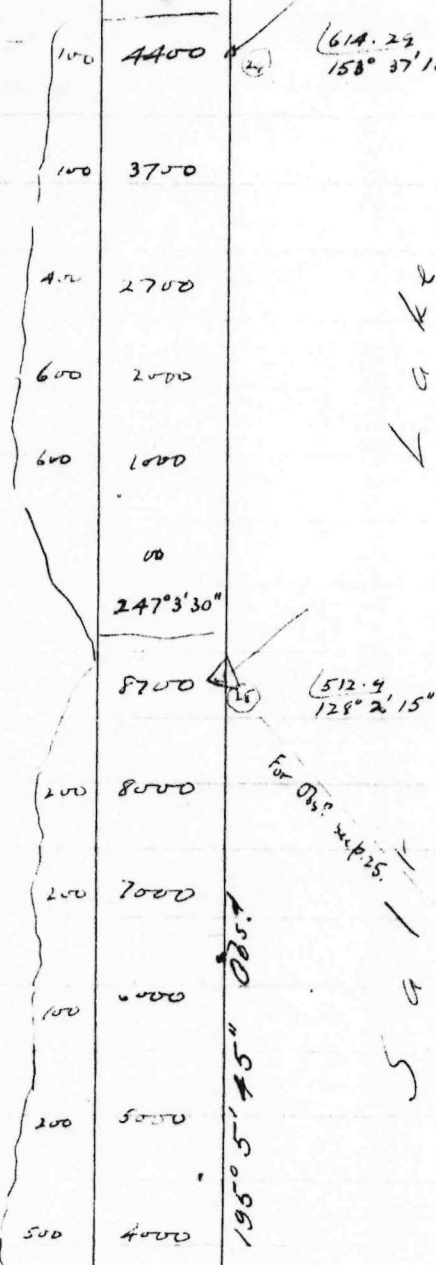
Flow same: 6/10/72

~~Cum~~ ^{13.}

$$\begin{array}{r} 152 + 11 \\ \hline 131^{\circ} 2' 45'' \end{array}$$
$$\begin{array}{r} 327.11 \\ \hline 131^{\circ} 2' 45'' \end{array}$$

195° 5' 45"

244° 31'





Sum

10

3000

3000

2500

2000

200

1000

00

237° 9' 15"

556.7
139° 145'

100

2000

200

1000

00

278° 7' 15"

4800

6.4.33
154° 53' 15"

Sum

200

3800

200

2800

1500

X
16

100

7000

00

253° 0' 15"

635.14
154° 33' 30"

500

7400

00

7000

500

6000

400

1000

400

4000

300

3000

K

2236 (cal)

300

2000

100

1000

00

273° 26' 30"

6/1/12

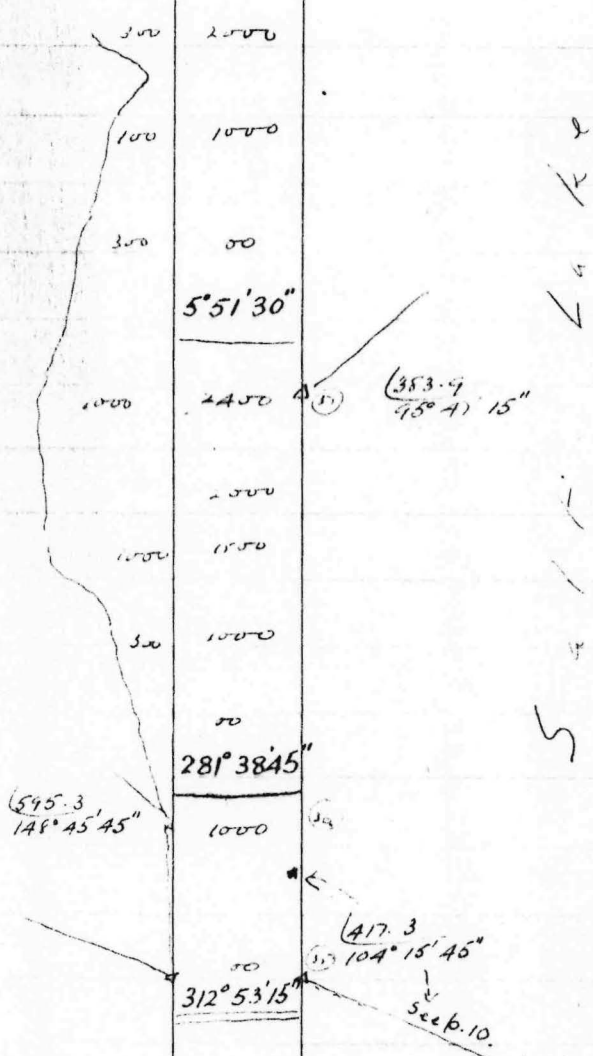
Sum

180° 0'

ADBA cal to pt.
F.B. 55 p. 21

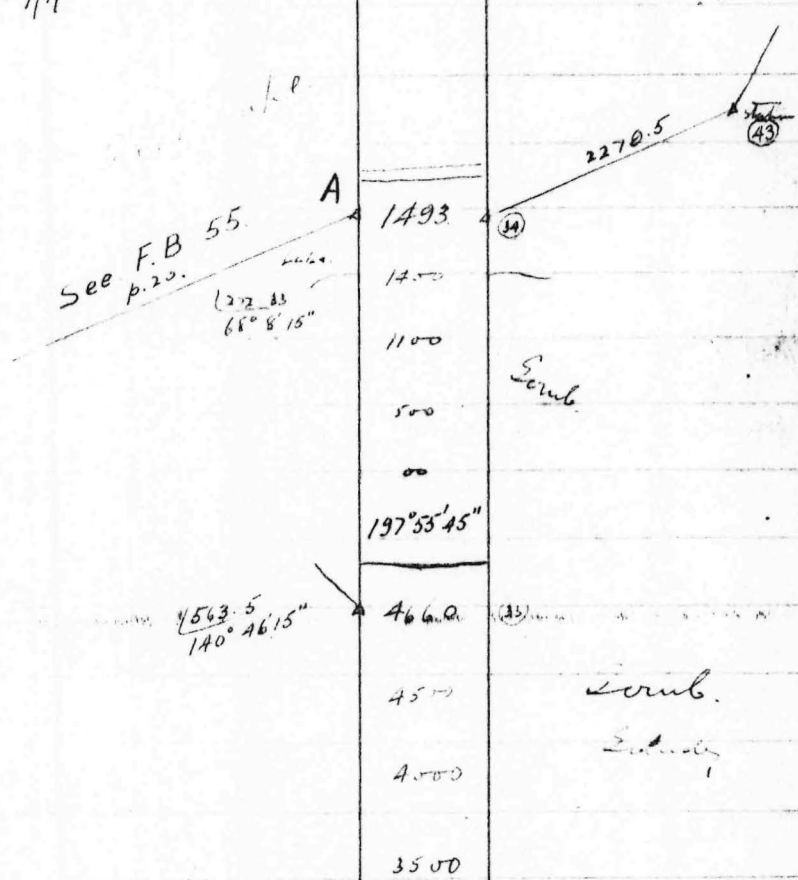
APB
7/7/12

Long
Sucker



Return to station 33 p. 10

APB
7/7/12



630.59
157° 44' 45"

12

8000

(32)

7/13
7/1/12

Sand

Post X
17

hundred bush

7/13
7/1/12

Sand

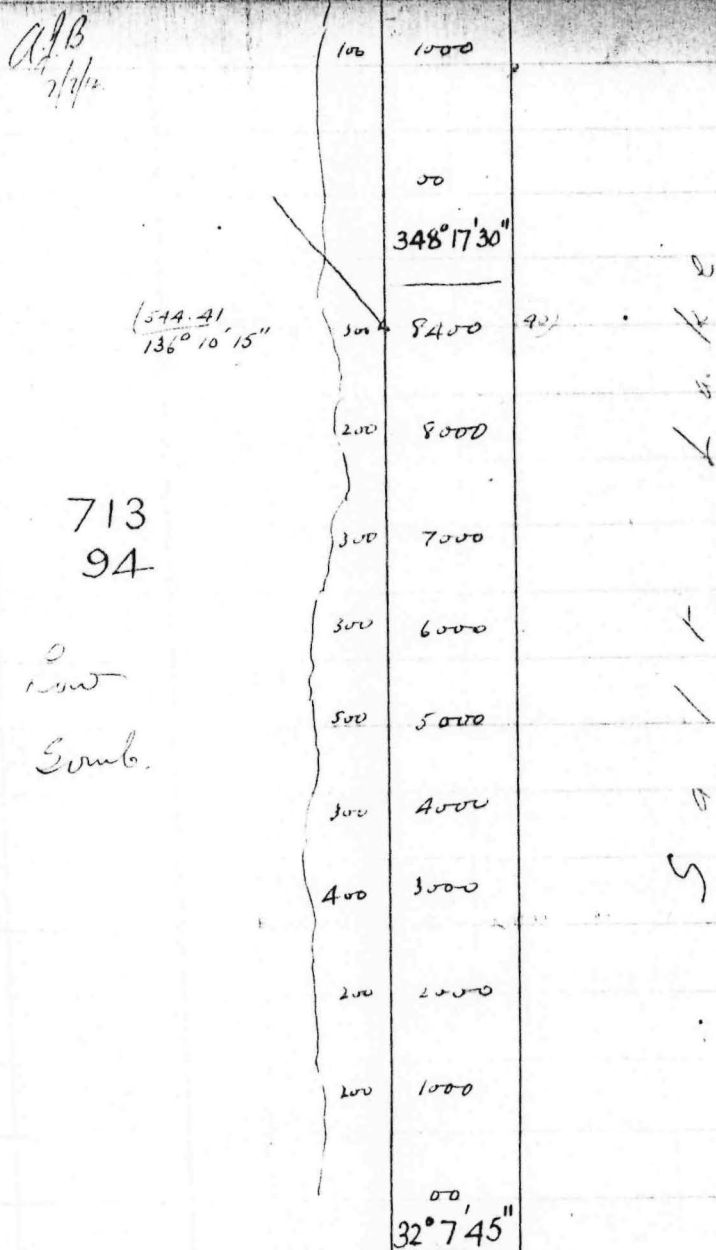
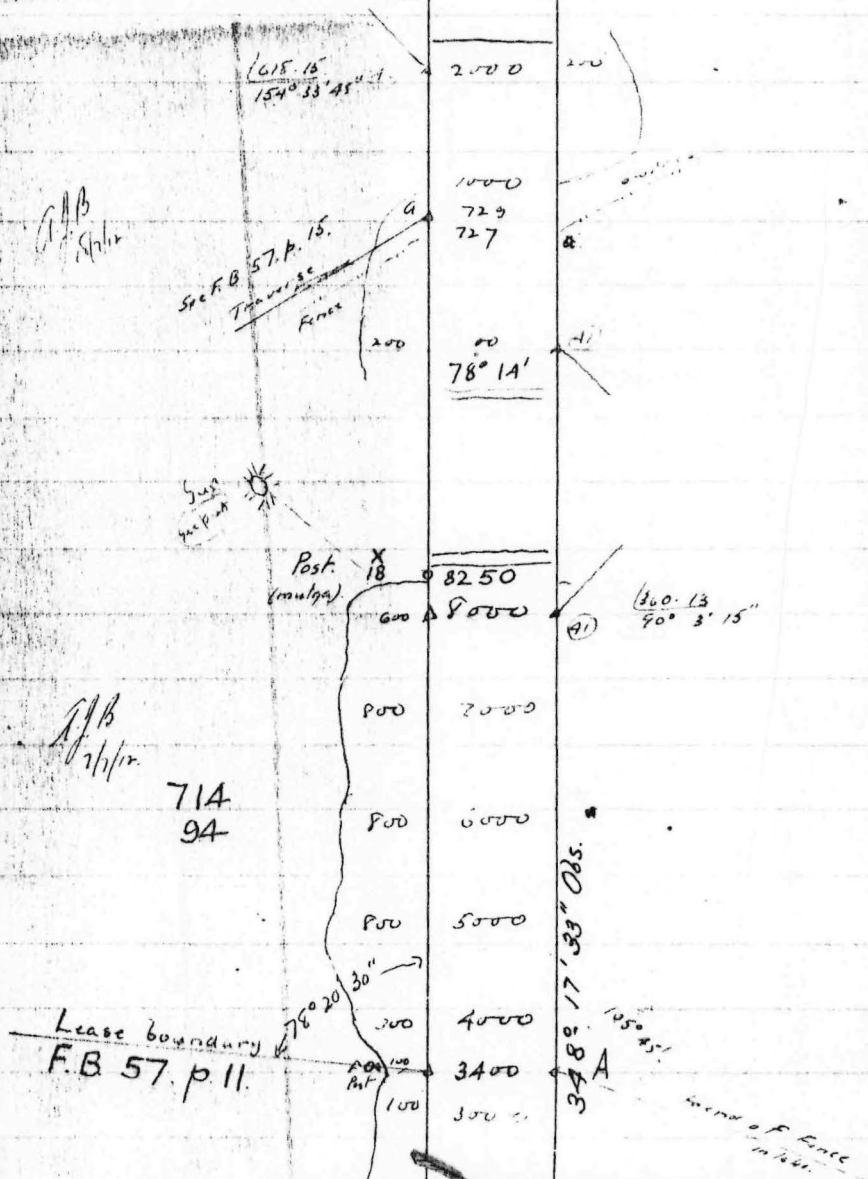
Sand
S

100	7000
300	6000
200	5000
200	4000
200	3000
300	2000
200	1000
50	
54° 23' 15"	
16800	
600	16000
700	15000
300	14000
200	13000
100	12000
	11000
400	10000
400	9000
500	8000
400	7000
400	6000
500	5000
500	4000
500	3000
300	2000

525.47
181027' 15"

S
a
l
t
L
a
k
e

S
a
l
t
L
a
k
e



14

14.13
18/10

fully

600 3000
500 2000
100 500
00

35° 11' 0"

650.5
162° 51' 15"

400 5000
500 4000
400 3000

X part
13
40

400 2000
100 1000
00

52° 10' 0"

641.49
100° 27' 15"

200 7000
100 6000

41

-11° 26'
163.6
40° 46' 30"

10/12

10/11

Anting Lane

14.13
18/10

1000
1000

100 5000
200 4000
200 3000
200 2000
200 1000
00

72° 12' 45"

200 5000
400 4000
500 3000
600 2000

41

642.58
160° 34' 30"

10/12

10/11

1000
1000

500 1000
100 500
100 00

52° 47' 30"

A. J. B.
1871/100

$\frac{652.5}{163^{\circ} 1' 15''}$

1000

8000 X post in center

7500

150 7000

200 6000

300 5000

400 4000

400 3000

800 2000

600 1000

00

41° 45' 45"

$\frac{675.4}{165^{\circ} 46'}$

8000

7000

5411

5411

A. J. B.
1871/100

6000

100 6000

100 5000

100 4000

100 3000

200 2000

150 1000

00

53° 3' 0"

6500

$\frac{648.32}{162^{\circ} 8'}$

200 6000

600 5000

100 4000

600 3000

Scrub

Scrub

mangroves

5411 Lake

h
v
1

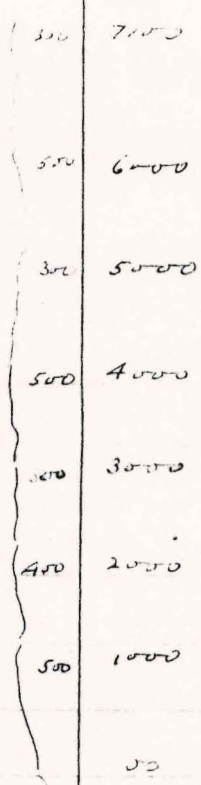
have
Pine Stone
ridges
sandy

[illegible]

7/16
1912

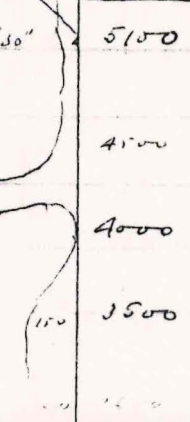
Sand

17



1°25'15"

519.18
127°47'30"



L
a
k
e

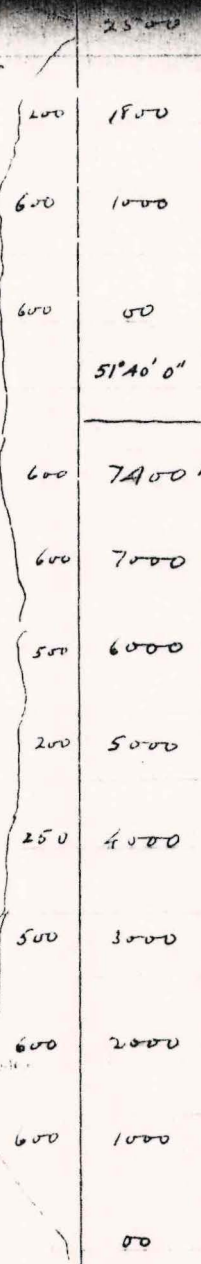
S



7/16
1912

Low
Limestone
hills

Spring



17.55.30

51°40'0"

625.2
156°15'30"

L
a
k
e

S

Everday hills

Deuce 5006

14000

Best of lakes here
is a mass of
fine veined gypsum
conglomerate.

✓
✓
✓
✓
✓

Scrubby hills

$$\begin{array}{r} 546.8 \\ 14902 \end{array}$$

numerous never birds white 500

11° 10' 15"

42° 8' 30"

54

X part.
22 on small
island.

Sun.
Oct 25

$\underline{1557.22}$
 $189^{\circ} 20' 50''$

AB
1/1/12

Scrub.

Quinton hills
same scrub.

300	6000
100	5000
	4000
200	3000
200	2000
200	1500
	0
	44° 58' 0"
	29000
100	25500
600	27000
700	26000

S. 1/2 E. 1/4

35 584.49
146° 12' 15"

AB
1/1/12

Deer
Scrub.

500	25000
200	24000
150	23000
600	22000
400	21000
150	20000
500	19000
600	19000
	17300
	17000
1000	16000
800	15000
400	14000

S. 1/2 E. 1/4

X 23 post in
Cairn.

Scrubby hills

2.4.13
20/1/14

152° 6' 15"

	20	
	5000	
500	5000	
1000	4000	
300	3000	
100	2000	
500	1000	
	00	
	42° 34' 0"	
500	3400	(56) 610.7 152° 31' 45"
500	3000	
500	2000	
200	1000	
	00	
	15° 6' 0"	
100	1500	(57)

Lake

50/1

Scrubby hills

2.4.13
20/1/14

100	1000	
	00	
	57° 6' 0"	
	15100	X post. 671.27 24 167° 51' 45"
700	14000	
100	13000	
400	12000	
1000	11000	
400	10000	
500	9000	
1000	8000	
400	7000	

Lake

50/1

J.B.
2/1/12

Saltbush

Saltbush

amphib

Water course

amphib

spunk

21

6800

6000

5500

4000

3000

2000

1000

00

73° 44' 0"

5000

4000

3000

2000

1000

00

53° 27' 45"

2300

2000

1000

00

35° 56' 30"

5000

4000

3000

2000

1000

00

83° 21' 15"

61° 45' 10" 11 15'

350

110

200

200

300

500

100

00

X 25

magentic

2000

1000

00

00

00

60

1000

00

00

60

00

00

00

00

00

00

past 635.54 154° 43' 30"

60 605.55 166° 25' 45"

654.20 136° 35'

Plain corner
Spunk
parties of amphib

541 Lake

Vi. B
23/1/12.

Low range.

FB 57 p. 9.
Low range
trending to East

13900
13500
12000
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

Saltbush

Saltbush

10000
500
125° 58' 15"
4000
3600
2600
1600
800
600
00
136° 23' 30"

(477.54)
119° 45' 45"

(6)

Vi. B
27/1/12.

Saltbush.

3200
3000
2700
2450
2000
1500

(485.12)
106° 45' 30"

(6)

Saltbush.

Saltbush

Low Islands

Island

24

Sun Obs. at station .41 p. 13. 25/7/12.

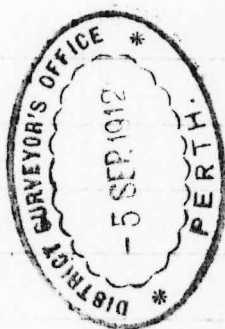
Latitude by sun. $23^{\circ} 48' 40''$

R.M. 300. return 360°.

A.M.	d	az.	$137^{\circ} 48'$	}	alt	$23^{\circ} 10' 40''$
	p		$137^{\circ} 55'$			
	d		$317^{\circ} 12'$	}	coalt	$67^{\circ} 31' 40''$
	p		$317^{\circ} 18' 40''$			

True bearing of R.M.

$168^{\circ} 17' 33''$
 $168^{\circ} 18' 8''$
 C.B.P.1 page 18 30/10/12



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, *27/7/12.*

INDEX

*Traverse of Salt Lake
Cynodon District
Plan 7/300.*



Sum Obs. at station (28) p. 9. .. 6-7-12

Latitude by scale $23^{\circ} 52' 40'' S.$

R.M. 360° Return 360°

$\frac{1}{2}$	34.41	by	$296^{\circ} 6' 40''$	}	alt	$24^{\circ} 0' 40''$
$\frac{1}{2}$			$296^{\circ} 11' 0''$			
$\frac{1}{2}$			$115^{\circ} 25' 0''$	}	coalt	$66^{\circ} 43' 40''$
$\frac{1}{2}$	3.45		$115^{\circ} 29' 0''$			

True bearing of R.M.

$15^{\circ} 5' 45''$
 $15^{\circ} 6' 06''$ *CB PI page 18*
30/10/12

Sum Obs. at station (54) p. 18. .. 20-7-12.

R.M. 360° Return 360°

Latitude $23^{\circ} 41' 20''$

Qun.	$\frac{1}{2}$	by	$40^{\circ} 44'$	}	alt	$23^{\circ} 37'$
	$\frac{1}{2}$		$40^{\circ} 56'$			
	$\frac{1}{2}$		$220^{\circ} 6'$	}	coalt	$65^{\circ} 58' 40''$
	$\frac{1}{2}$		$220^{\circ} 12'$			
	$\frac{1}{2}$		$34^{\circ} 27'$	}	alt	$25^{\circ} 6' 20''$
	$\frac{1}{2}$		$34^{\circ} 32'$			

True bearing of R.M.

$11^{\circ} 15' 6''$
 $11^{\circ} 11' 31''$ *CB PI page 18*
30/10/12
not reliable in account of strong wind