

3837



Form 504

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

C. & G. SURVEY
L. & A.
SEP 24 1921

State: *Virgin Islands* Acc. No.
11-5613

DESCRIPTIVE REPORT.

Topo Sheet No. 3837

LOCALITY:

St Croix Island

East End.

1921

CHIEF OF PARTY:

Eoline R. Hand

DESCRIPTIVE REPORT

(to accompany topographic sheet "K", St. Croix, Virgin Islands, 1921.)

Eoline R. Hand, C. of Party

This is sheet "K". It is the eastern end of a sheet left unfinished by O.W. Swainson (office number 3800) the accomplishment of which was called for in my Instructions of October 23, 1921 (7-HOC). It embraces the extreme eastern end of the island of St. Croix, Virgin Islands.

2. The shoreline of this depicted area is alternating beach and low cliff, fringed by coral. Inside of this reef there is for the most part rather deep water, offering some protection to small craft: in fact I believe that at one point, Tague Bay, steamers of light draft could anchor, entering behind the reef through the break about a mile west. The smooth, time-worn hills rise with gradually increasing steepness from the low shores and the rather extensive vallies. The entire area shown - with the exception of the valley flats close to shore - is covered densely with a drab appearing growth of sage, thornbush and cactus, making it impossible to pass any place without the aid of a caneknife. But the vivid green of the dense and healthy bush growth in these above-mentioned flats offers to the eye a pleasing contrast. These low bottom areas have been indicated by what is meant to approximate the brush symbol.

3. There is a good automobile road on the north side, penetrating to Cotton Valley: a good road also runs to below the old mill tower at Cotton Grove on the south side: and from here a cart road continues east to Grass Point. In quite early days the roads ran much farther, but time has obliterated all but the merest traces. A poorly defined trail from the beach at Grapetree Bay to the valley between Cotton Garden and Tague Bay offers a means of passing across the island.

4. This is a deserted and nearly barren country. It is parched and dry, being almost constantly wind-swept, and there is no water except a poor quality of brackish drawn up by the fanmills shown at west end of work, and operated for stock; for a what seems to me rather unsuccessful attempt is made to raise cattle in and about Cotton Grove, and west of Cotton Valley. But there is no grass, and this together with the heat and the lack of good water keeps the pitiable beasts reduced to mere bags of skin and bones. Yellow Jerseys lose their characteristic coloring; the parched skin becomes of an unhealthy slate color from these adverse conditions. However, west of the west edge of my topography shown conditions improve rapidly; there is good grazing and the soil is productive.

5. Not a man living remembers to have seen any part of this end under cultivation though at one time it is known there was agricultural activity in the big vallies. The number of ruins attest this, as do also the interesting items of a business and social nature about this section to be read in the Christiansted newspaper of a century ago. But economic problems forced the abandonment of what must have been at best an up-hill fight. No boundaries are shown because they have long since fallen into disuse: no one knows where they were. As intimated at beginning of paragraph four there are no people living here except a negro or two at Cotton Grove, and possibly a caretaker at Coakley Bay estate house.

6. Buck Island is same kind of country - barren waste and no water.

Eoline R. Hand
Topographer and Chief of Party.

PLANE TABLE POSITIONS
on

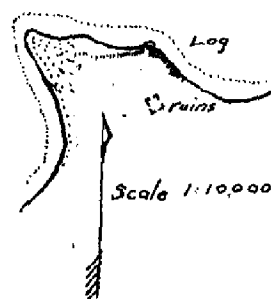
3837

THE ISLAND OF ST. CROIX. VIRGIN ISLANDS.

EOLINE R. HAND, Chief of Party, 1921.

(sheet "K", east end)

Object & Description	Latitude	D. M.	Longitude	D. P.	Ht.	Remarks.
	°	'	°	'	Feet	
		meters		meters		
Apt: patch of white paint on cliffs, center of north side of Buck Is- land.	17 47	914 (930)	64 37	551 (1216)		
Mid: patch of white paint on cliffs, on south shore Buck Id. 1/2 mile W. of E. end.	17 47	392 (1452)	64 37	175 (1592)		
Tree: large bushy tree, top of Buck Id.	17 47	612 (1232)	64 37	272 (1495)	330	
Dome: domelike hilltop in center ridge, just south of Solitude and Got- Valley Mill Tow- ers and a scant mile east of the slightly higher hill, Station Seven.	17 44	1144 (690)	64 37	1303 (464)	830	
Log: on the east cor- ner of blunt square point at east side Tague Bay, marked with plate set in ledge.	17 45	1022 (822)	64 35	1709 (53)	4	
End: a plate in the concrete block set in the slope on extreme east end of St. Croix Id.	17 45	785 (1059)	64 33	(94)	25-35	



3837(r)

Object & Description	Latitude	D. M.	Long.	D. P.	Ht.	Remarks.
Tom: plate in concrete	17 44	183	64 36	1134	43	
-- block set on highest part		(1661)		(633)		
of grassy point						
making out sharply						
from south shore,						
3 miles west of						
east end						
Lee: plate in cliff, ex-	17 44	00	64 37	522	5	
treme S. E. corner				(1245)		
of prominence 1150						
meters west of						
Grassy Point.						

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO.

4-1011

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

REPORT ON TOPOGRAPHIC SHEET No. 3857.

Surveyed in 1921.

Chief of Party: E. R. Hand.

Surveyed and inked by E. R. Hand.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of the survey fulfill the requirements of the General Instructions.
3. The plan and extent of the survey satisfy the specific instructions.
4. The field drafting prescribed by General Instructions was completed by the surveyor.
5. The junction with the adjoining sheet is satisfactory.
6. No further surveying is required within the limits of the sheet.
7. The character of the surveying and field drafting is excellent.
8. Reviewed by E. P. Ellis, December, 1921.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3837 (field letter "K")

State . . . Virgin Islands

General locality . . . Island of St. Croix, ~~east end~~

Locality east end

Chief of party . . Eoline R. Hand

Surveyed by " " " "

Date of survey . . April - May, 1921

Scale 1 : 10000

Heights in feet above m.h.w.

Contour interval . 20 . . feet.

Inked by Eoline R. Hand * Lettered by . H.E. Mac Ewen

Records accompanying sheet (check those forwarded): ~~Photographs~~

Descriptive report, ~~Notes on the survey, and the positions, landmarks, and other data~~

List of Positions, Landmarks for Charts

Data from other sources affecting sheet

Remarks: Small area of contouring south of stations SEVEN and Dome
inked by Mac Ewen.

38372

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <i>Virgin Islands</i>
11-5613
DESCRIPTIVE REPORT.
<i>Topo</i> Sheet No. <i>38372</i>
LOCALITY:
<i>St. Croix Island</i>
<i>Buck Island</i>
1924
CHIEF OF PARTY:
<i>G. C. Mattison</i>

Form 274

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester J. J. J. Director

State: *Virgin Islands*

SKETCHBOOK

ABSTRACT OF CONTENTS:

*Remains Record.
Traverse to locate
change in shore
line Buck Id.
To accompany top-
ographic sheet
already forwarded.*

182.6

CHIEF OF PARTY

G. C. Mattison

Vols.

11-4821

Vol.

Form 274

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

_____, Director

State: _____

SKETCHBOOK

ABSTRACT OF CONTENTS:

192

CHIEF OF PARTY:

Vols.

11-4821

Vol.

at Crab

Dry

~~177-34~~

32-24

328-36

Sol

~~180~~

~~178-36~~

~~Jan~~ Sea 136-17

~~34-17~~

43-13

at Crab

Dry

32-24

Sol

Sea

43-43

~~24-47~~
 24-47
 32-23
 24-47
 32-23
 24-47
 32-23

~~24-47~~
 24-47

32-25
 24-47

~~24-47~~
 24-47

24-49

43-43
 11-16
 32-25

sup. ~~7-5-80~~ 0-00
 500 11-18
 7 Fish 24-52
 Dry 43-43
 Louis 68-30

34-20 24-50
 28
 14
 42
 49
 51

Crab

32-325
11-18

42-43
11-13

Crab Dry 0-00

Crab 2 149-10

dist 28
 10.92
 38.82 m. ✓

on same line to w.l. 19 m. from Crab 2

37/3

sup
 Tag to #1

145-32

dist 24.30 Quas
 g.w. 51.00

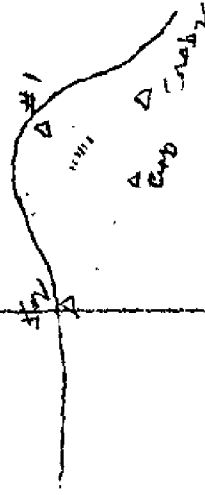
#2

30-40

dist. 26.00 - 100 yds
 43.00 w.l. ✓

43-43
 11-15

11/2/80



$$\begin{array}{r} 12 \\ 24 \overline{) 2.00} \end{array}$$

$$\begin{array}{r} 4.00 \\ 2.00 \overline{) 8.00} \\ 4.00 \overline{) 4.00} \\ 4.00 \overline{) 0.00} \end{array}$$

$$\begin{array}{r} 4.00 \\ 11.00 \overline{) 44.00} \\ 4.00 \overline{) 0.00} \end{array}$$

$$\begin{array}{r} 322-44 \\ 180-00 \\ 142-44 \end{array}$$

$$\begin{array}{r} 375 \\ 84-45 \\ 45-22 \\ 38-53 \end{array}$$

Position of B
~~John~~
 501

38-53
 33-53

$$\begin{array}{r} 1.40 \\ 5.10 \overline{) 7.50} \end{array}$$

$$\begin{array}{r} 4.50 \\ 11.00 \overline{) 49.50} \\ 4.50 \overline{) 0.00} \end{array}$$

Time 12:15

James

142-44
37-46

$$\begin{array}{r} 135 \\ 45 \overline{) 135} \\ \underline{45} \\ 0 \end{array}$$

5m.
Dry 0-00 ✓ dict. 51.6 ✓
B 37-16 ✓

五

at B

sup
11-10
11-29
11-27

57
36
61

10/11/11

0.212

14-15-14-75.4

247-13 8.6

25.9	✓	701-1
2.2		2

$$\begin{array}{r} 210 \\ 187 \\ \hline 23 \end{array}$$

14-10-13
8-9-43

$$\begin{array}{r} 2.3-9-17-2.0 \\ 0+7-12.0 \end{array}$$

11.0	1	6	1	1.0
12.0	1	5	1	12.0

[Handwritten signature]

1 ← #4 → 6.4

2 ← 3 → 2

3.1 ← 2 → 1.0

7.4 ← ~~2~~B → 1.0

~~7.5~~
1.5 — (#2)

181-51
111-14
110-37

0.2

763
126
9.2
135.2

288
242
135.0
148.0

71-14
37-05
34

1201
17-30
34-24
3

55.26
37.03
18.23
51.36
14.3

at C. 21-00

↑ Sol 27-03

4.3 to 4.55 Cont 53-26 ✓

8.0 to 8.15 Dry 71-14

Shore w.l. 157-35 dist. 59.6

Crab 187-27

Crab 2 190-51

Sta. B 181-51? 168-19

D 347-59 dist. 51.9

at D 20-00

Sol 37-34 at w.l. ✓

Dry 72-01

C 167-52

E 328-18 dist. 52.28

at E 27-00 ~~27-00~~

Sol 51-36

Dry 85-54 X

D 161-15

E 329-57 dist 135.2

w.l.

	$\begin{array}{r} 75-42 \\ 42-24 \\ \hline 33-15 \end{array}$
$\begin{array}{r} 75-54 \\ 42-46 \\ \hline 33-08 \end{array}$	$\begin{array}{r} 73-04 \\ 39-29 \\ \hline 65-65 \end{array}$

at F	Log 0-00		14 213.8
	Sol 39-12		84
w.l.	Dry 72-57	✓	138
			97.8
	G 312-00	dist 97.8	
			7257
			3912
			3345
at G	Log 0-00		
	Sol 39-39		
	Dry 73-04		
w.l.	F 130-35		
	H 542-40	dist 223.0	
	Log 0-00		
at H	Sol 42-29		
	Dry 75-42	✓	
	E 161-14		
	I 323-55	dist 50.2	
	Log 0-00		
at I	Sol 42-46		
	Dry 75-54	✓	
	H 143-16		
	Mid 303-33	dist 5580	
			359 40
			503 53
			56 21

Descriptive report to accompany
Revision of part of shoreline of Buck Is-
land, St. Croix Island, Virgin
Islands.

Change of shore line:

A recession in shoreline was found approximately 100 meters SE of Δ Crab and a growth approximately 250 meters SE of Δ Crab.

The shore is sandy and exposed to the south so as to make it changeable in heavy weather.

Where the shoreline has receded there is evidence of sand being piled up and where it grew it is evidenced by the fact that the sand makes off to a low sandy point.

This is the only sandy stretch on Buck Island and from general reconnaissance it seems to be the only part that has changed.

Method of Survey:

A theodolite traverse line was run from Δ Crab to \odot Bay. \odot Bay was located by sextant angles, they are, Grell 31-19, Sol, Kid 82-22. Lamb and Kid almost on range.

Set ups along the traverse line were checked by three point fixes, using Δ Dry, Δ Sol, Δ Tague.

The traverse was closed on \odot Bay within an allowable error.

Instructions dated June 22, 1923.

Augustus P. Ratti
Augustus P. Ratti.

Forwarded:

G.C. Mattison
G.C. Mattison,
Commanding.

ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 4-DEM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

October 14, 1924.

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 3837^a

Buck Island, Virgin Islands

Surveyed in 1924

Instructions dated June 22, 1923.

Chief of Party, G. C. Mattison.

Surveyed by A. P. Ratti.

Inked by field party.

1. The records conform to the requirements of the General Instructions except for the omission of the title sheet.
2. The character of the survey satisfies the General Instructions and the extent satisfies the specific instructions.
3. The junction with the previous survey is satisfactory and no additional work is required.
4. The character of the surveying and field drafting is good.
5. Reviewed by E. P. Ellis, October, 1924.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOP
~~Hydro~~GRAPHIC TITLE SHEET

The finished ^{Topo}~~Hydro~~graphic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3837^a

State Virgin Islands

General locality . . St. Croix Island

Locality Buck Island

Chief of party . . . G. C. Mattison

Surveyed by A. P. Ratti

Date of survey . . . July 29, 1924

Scale 1:10,000

Soundings in

Plane of reference

Protracted by Soundings in pencil by

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, ☒ Tide books, ☐ Marigrams, ☐ Boat sheets,

☐ Sounding books, ☐ Wire-drag books, ☐ Photographs.

Data from other sources affecting sheet

Remarks: *Revision of shoreline extending from
A crab (on western extremity of Buck Island)
to C Bay (on shoreline and approx. 0.4 stat. miles
in a westerly direction).*