

6313

U. S. COAST & GEODETIC SURVEY
LIBRARY ARCHIVE
AUG 6 1938
Acc. No. _____

6313

Form 504
Rev. April 1935
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Topographic }
Hydrographic } Sheet No. 11

State Florida

LOCALITY

St. Johns River

Spring Garden Lake

1938

CHIEF OF PARTY

F. L. Gallen

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 41

REGISTER NO. H6313

State Florida

General locality St. Johns River

Locality Spring Garden Lake

Scale 1:5,000 Date of survey Feb., 1938

Vessel LAUNCH MIKAWA

Chief of Party L. L. Graham - F. L. Gallen

Surveyed by Raymond H. Carstens

Protracted by George E. Varnadoe

Soundings penciled by George E. Varnadoe

Soundings in-fathoms- feet

Plane of reference M.S.L.

Subdivision of wire dragged areas by

Inked by Francis B. Kelly

Verified by FSK

Instructions dated November 9, 1936

Remarks:

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet 41.

INSTRUCTIONS - November 9, 1936

Project HT-212

LIMITS

This sheet includes Spring Garden Creek and Spring Garden Lake.

SURVEY METHODS

Sounding lines in Spring Garden Creek were run following the general trend of the channel as marked by channel markers, spoil banks and the shoreline. The sounding lines in Spring Garden Lake and in the dredged cut in Lake Woodruff were run on ranges. Positions on the sounding lines were obtained with sextant fixes or spotted from topographic features. Soundings were taken with the leadline and with a graduated sounding pole having a metal plate on the bottom, to prevent it from sinking into the mud. In Spring Garden Lake, where the bottom was very soft, the leadline was read when the lead disappeared in the mud.

Signals and shoreline were transferred from topographic sheet JJJ.
T-6613

DANGERS

There are no particular dangers on this sheet. Spoil banks bare along most of the dredged cuts but these can easily be avoided. The beacons marking the cut in Lat. $29^{\circ} 08.1'$, Long. $81^{\circ} 22.9'$ should be closely followed in order to carry the best water. Spring Garden Lake is very shoal and partially obstructed by patches of lily pads and weeds.

CHANNELS

Spring Garden Creek has a natural channel over the greater part of its length. A dredged cut leads from Lake Woodruff for about $\frac{1}{2}$ mile up the creek. Two other dredged cuts run from Spring Garden Creek across the most northern part of Spring Garden Lake to DeLeon Springs. The southernmost cut has a least depth of 2 feet in Lat. $29^{\circ} 08.13'$, Long. $81^{\circ} 22.50'$. The north cut has a least depth of 3 feet in Lat. $29^{\circ} 08.17'$, Long. $81^{\circ} 22.49'$. These cuts are privately maintained. The least depth in Spring Garden Creek is 3 feet in Lat. $29^{\circ} 08.04'$, Long. $81^{\circ} 23.17'$.

COMPARISON WITH PREVIOUS SURVEYS

No previous survey of this area had been made by the Coast Survey. A print of soundings taken by the Army Engineers, after dredging, has been secured from the Engineers and is attached to this report. In the entrance out in Lat. $29^{\circ} 06.70'$, Long. $81^{\circ} 24.27'$ the cut appears to have filled in about 2 feet. In the rest of the cut and in Jones Cut the present survey is in close agreement with that of the Army Engineers. U.S.E. survey filed as B.P. 31893
? Agreement fair.

GEOGRAPHIC NAMES

For geographic names see the report for topographic sheet JJJ.
T-6613

Submitted by, ✓

Raymond H. Carstens

Raymond H. Carstens
Deck Officer, U.S. & G.S.

Approved and forwarded:

F. L. Gallen

F. L. Gallen
H. & G. Engineer
Chief of Party

S T A T I S T I C S

Date	Day Letter	Positions	Soundings	Statute Miles
Feb. 22	a	129	782	13.3
23	b	153	870	11.2
24	c	<u>56</u>	<u>377</u>	<u>5.9</u>
		338	2029	30.4

Smooth sheet field number 41 was plotted under the immediate supervision of the Chief of Party. The sheet and records have been inspected and are approved.



F. L. Gallen
H. & C. Engr.
Chief of Party

Verification Report for H 6313 (1938)

The records conform to the requirements of the Hydro Manual.

The signals in blue were plotted on T 6613 from angles & distances recorded in sounding volume no. 1 and transferred to H 6313.

The islands shown on H 6313 are better shown on T 6613 but rather than erase the heavy shore line & put it in lightly the islands were labelled "grass".

Topo survey T 6613 shows a fence at the entrance to Spring Garden Creek. According to Mr. Carstens this is in reality not a fence but only a row of stakes, stuck in the top of the spoil banks. Accordingly the notation "fence" was removed from H 6302 & "spoil bank" added.

The pile shown on H 6313, twenty five meters south of O Tra, was transferred to H 6313 from T 6613.

The pile shown approx 80 meters N.W of O Pig ^{is indicated} but not inked on T 6613 and was transferred from H 6313 to H 6302. File inked on T. 6613.

The advisability of putting a note to the effect that "all signals outside the H.W. line are of a temporary nature unless otherwise noted" is left to the discretion of the reviewer. Inked.
a note should be added to H 6313 that "the spoil banks are generally bare from 0 to 2 feet and if covered can easily be seen: width above water about 6 feet." Inked.

Francis B. Keely
Dec 16, 1938

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6313**

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	338
Number of positions checked	5
Number of positions revised	0
Number of soundings recorded	2029
Number of soundings revised	20 (Position revised only)
Number of signals erroneously plotted or transferred	0

Date:

Verification by *Francis B. Kelly*

Review by J.A. McCormick, Dec. 22, 1938.

Time: 29 hrs.

Time: 10 hrs.

HYDROGRAPHIC SURVEY NO. H-6313

Smooth Sheet Yes

Boat Sheet Yes

Records; Sounding 2 Vols., Wire Drag Vols., Bomb Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals Vol. #1

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) ----

Special Chart for Lighthouse Service -----
(Circular Nov.30, 1933)

Hydrography: Total Days 3; Last Date Feb. 24, 1938

Remarks _____

Remarks

Decisions

1		
2		
3		
4	<i>p.o. DeLeon Village R.R. Sta. DeLeon</i>	
5	<i>Sixth Report: decision for precinct (gives precedent for spelling of community)</i>	<i>USGB. decision</i>
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No. **H-6313**

Name on Survey	<div style="display: flex; justify-content: space-between; font-size: small;"> <div style="width: 10%;">On Chart No. 309</div> <div style="width: 10%;">On previous survey No. None</div> <div style="width: 10%;">On U. S. quadrangle Maps (1921-29) S. F. 14624</div> <div style="width: 10%;">From local information</div> <div style="width: 10%;">On local Maps 1936 P. O. Guide or Map</div> <div style="width: 10%;">1933 U. S. State Map Rand McNally Atlas</div> <div style="width: 10%;">U. S. Light List</div> <div style="width: 10%;">1937 Railway Guide</div> </div>										
	A	B	C	D	E	F	G	H	I	J	K
Lake Woodruff	✓		✓								1
Spring Garden Creek	off chart										2
Spring Garden Lake	..					town					3
De Leon DeLeon Springs	.					✓	De Leon (DeLeon)			De Leon	4
<u>DeLeon Springs</u>				T6613							5
(Wait for top sheet)											6
											7
											8
											9
											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red approved
by **A. H.** on **8/30/38**

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT } No. H-6313
~~PHOTO STATOOR~~ } ~~No. 6313~~

{ received August 6, 1938
 registered August 29, 1938
 verified
 reviewed
 approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	T. B. Reed
----	------------

✓ JOB

TIDE NOTE FOR HYDROGRAPHIC SHEET

September 6, 1938

Division of Hydrography and Topography:

✓ Division of Charts: Attention: Mr. E. P. Ellis

Tide Reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 6313

Locality Spring Garden Lake, St. Johns River, Florida

Chief of Party: L. D. Graham in 1938
Plane of reference is mean low water reading
3.0 ft. on tide staff at Astor
6.0 ft. below B.M. R 58
1.9 ft. on tide staff at DeLand Landing
5.7 ft. below B. M. 1

Tide reducers are a mean of the readings of the Astor and DeLand
Landing gages.

There is no periodic tide in this area. The plane of reference is the
average water level during the period of lower river stages and corres-
ponds approximately to the sea level datum of the Level Net.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6313 (1938) FIELD NO. 41

Spring Garden Lake, St. Johns River, Florida.

Surveyed in February 1938, Scale 1:5,000.

Instructions dated Nov. 9, 1936 (MIKAWA)

Hand Lead and Pole Soundings.

3 Point fixes on shore signals.

Chief of Party - L. D. Graham
Surveyed by - R. H. Carstens
Protracted by - G. E. Varnadoe
Soundings plotted by - G.E. Varnadoe
Verified and inked by - F. B. Kelly

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual except that reference station and datum notes were omitted from the smooth sheet. The necessary information was added in the office.

The Descriptive Report is complete and satisfactorily covers all items of importance.

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

Shoreline and hydrographic signals originate with T-6613 (1938). The signals were located by angles and distances recorded in the sounding volumes of the present survey. They were plotted on T-6613 (1938) and transferred to the present survey by dividers.

4. Sounding Line Crossings.

Sounding line crossings are satisfactory.

5. Depth Curves.

The usual depth curves may be satisfactorily drawn.

6. Junctions with Contemporary Surveys.

The junction with H-6302 (1938) in LAKE WOODRUFF is satisfactory. There are no other adjoining surveys.

7. Comparison with Prior Surveys.

This Bureau has made no prior surveys in the area covered by the present work. U. S. Engineers' B.P. 31893 shows the condition after dredging (December, 1936) of approximately one-half mile of the channel where SPRING GARDEN CREEK enters LAKE WOODRUFF. Depths on the blueprint are in fair agreement with those on the present survey but the survey is entirely adequate in itself for charting purposes.

8. Comparison with Chart.

This Bureau does not, at present, chart the area covered by the present survey.

9. Field Plotting.

The field plotting was satisfactory.

10. Additional Field Work Recommended.

No additional field work is required.

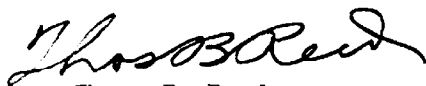
11. Superseded Old Surveys.

There are no prior surveys of this area by this Bureau.

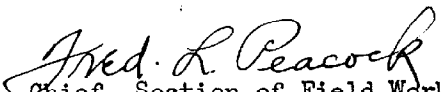
12. Reviewed by - J. A. McCormick, December 22, 1938.


Inspected by E. P. Ellis,

Examined and approved:


Thos. B. Reed,
Chief, Section of Field Records


K. T. Adams
Chief, Division of Charts


Fred. L. Peacock
Chief, Section of Field Work


G. H. Hilde
Chief, Division of Hydrography
and Topography.

Applied to Chart # 688. April 26, 1940. L.A.M.