# 579

#### Form 504 Rev. April 1931

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

## DESCRIPTIVE REPORT

Topographic Hydrographic

9 ..

Sheet No. 1-5791

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

FEB 11 1941

Acc. No.

State Florida

LOCALITY

Florida West Coast

Mouth of Suwannee River

Photographs taken Dec. 3 × 4, 1939

19641

CHIEF OF PARTY

Lieut. Kenneth G. Crosby

U. S. GOVERNMENT PRINTING OFFICE 102221

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

### TOPOGRAPHIC TITLE SHEET

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

SHEET Field No. T-5791

#### REGISTER NO.

G P O
Remarks:
Instructions dated, 1940
Contour, Approximate contour, Form line interval feet
Heights in feet above to ground to tops of trees
Inked by James H.S. Billmyer
Chief of party Kenneth G. Crosby Field Inspected by: Surveyed by H. A. Duffy, Hand (Recorder)
Party: Wested Air Photographic Party No. 1
Scale 1:20,000 Date of xxxxxxx December 3 & 4, 1939
Locality Mouth of Suwannee River Photos.
General locality Florida West Coast
StateFlorida

#### SUPPLEMENTARY SURVEYS

	Nerse	: Date	: Hours
Control Surveys		1	•
Planetable Surveys		1	
		Total	
PIND INSPROVIOU			
Proparation of Photographs	HAD - ELJ	Dec.	2
Field Works	HAD	Apr May	60
Inking Hotos	HAD	June	10
Coast Pilot Motes	HAD-ELJ-KGC	Dec. 19-26	2
Geographic Home Report	HAD-ELJ	June 28&DEC . 2-	30 14
Landmarks for Charts			
Recovery Hotosoccossoccossoccos	HAD-ELJ	June & Dec.	19
TEGOLOTÀ MO CONCESSOR MANOREMENTO		Total	107
MAIN BADIAL PLOT			
Sonle Ploto*	ELJ - RHY	July 2-3	1 3
Projection on Base Sheet		1	
Projection on Survey Sheet		1	
Control Plotted	KGC-ELJ	Aug. 8	* 1
Control Checked		•	•
Control Trans. to Base Sheet t		•	1
Transfer Checked		1 . Town OF	
Control picked on Photographs	ELJ	June 27	3 3
Control checked on Photographs :	DRS RHY	July 10 July 3-10	4
Aydro. & Topo. Stations picked Radial points picked	WHS-ELJ-KWS	July 12-15	20
Adjacent centers picked	X-	July 1-5	32
Templetes	DRS	July 19-26	21
Radial Plotossossossossoss	X-KGCE.L.J.	* Aug. 10-19	1 12
Radial Points transferred	ELJ-KGC	1 Aug. 20-21	1 5
Transfer checked	JHSB	* Aug. 22	1 3
H & T Stations scaled & checked :	KWS-WOG	Nov.28-Dec.11	. 8
Additional Radial points	JHSB	* Oct. 23	• 7
X= various personnel		Total	122
DETAILING			
Rough Draft	JHSB-XXX	Aug.9,0ct.9	210
Smooth Draft		Total	210
COMPTIATION		20684	013
	THON	Way of oc	1 74
Mome Overlay	JHSB KGC-JHSB	Nov.25-26 Nov.27	14
Pield Reviews access access and the Property of the Property o	KGC - S HS B	Jan. 16-18	14
- TOTA	LOO	Total	36
		MOURA	00

#### PHOTOGRAPHS

Number	Date	!	Time		Stage of Tide
3706	Dec. 3, 1939		11:06	1	• 0.5
3707	Dec. 3, 1939	1	11:07		+ 0.5
3708	Dec. 3, 1939	1	11:08	1	+ 0.5
3738	Dec. 3, 1939	1	12:04		+ 0.1
3739	Dec. 3, 1939	1	12:06	1	+ 0.1
3740	Dec. 3, 1939	1	12:11		+ 0.1
3742	Dec. 3, 1939	1	12;13		+ 0.1
3743	Dec. 3, 1939	1	12:14	1	+ 0.1
3840	Dec. 4, 1939	1	11:25	1	+ 0.8

Tide from predicted tables for: Suwannee River Entrance - Reference station: Tampa Bay, Florida

Camera: U.S. Const and Geodetic Survey Bine-Lens (focal length Sg inches.) Magatives on file at Washington Office.

#### STALE

Scale of Survey Sheet	1:20,000 : 1.0025
STATISTICS	
Shoreline (more than 200 m. from opposite shore). 69.	<b>医</b> 多形形型 (1995)
Shoreline (Creeks)	(A)

Station: DUNNARY, 1933

Datum: N.A. 1927

Latitudes 290 19: 35.147" (Adj. (1082.1 m) Longitude 83° 09 10.337" x-coordinate = 2,429,313.40 ft. } Sec. 1, North Zone
y- " = 121,247.66 ft. } (278.9 m) x-coordinate = 132,614.42 ft. } Sec. 2, West Zone
y- "= 1,816,722.05 ft. } Sec. 2, West Zone

Date of Survey: Details on T 5791 are of the date of the photographs. Field inspection in April and June 1940 but showed no information subsequent to the photography.

#### DESCRIPTIVE REPORT to accompany SHEET NO. T-5791

#### GENERAL

This sheet was compiled in accordance with "Instructions for Drafting Air Photographic Surveys, Project H.T. 242", dated April 3, 1940.

The general locality of the area covered by this survey sheet is Florida, West Coast, vicinity of the mouth of the Suwannee River.

The terrain along the shore is mostly marshy, with occasional small patches of slightly higher wooded ground from about a mile to two miles inland. The area back of the marsh is mostly dense swamp, pine with grass land dotted with numerous cypress ponds and small swamps. There is no cultivation on this sheet.

All of the small islets adjacent to the marshy areas are also marshy unless shown otherwise.

Most of the dry vegetation areas had to be detailed by using symbols as very little of the vegetation was uniform in density.

Approximate M.L.W. is shown by a dotted line, and approximate limits of shoal areas are shown by a dashed line. The latter is shown for use of the hydrographer only.

All roads should be shown 0.6 m.m. wide, as none of the roads on this sheet are more than 12 meters in width.

Fire breaks were omitted on this drawing.

(transposed)

The plane coordinates were shown incorrectly in blue on the sheet by the Washington Office, but are shown correctly within the tracing limits in black celluloid ink.

The coordinates as shown in blue and the correct figures are as follows:

Coordinate Shown	Should Be	
Y 100,000 (N. Zone)	Y 1,830,000	(W. Zone)
Y 1,800,000(W. Zone)	Y 130,000	(N. Zone)
Y 130,000 (N. Zone)	Y 1,800,000	(W. Zone)
Y 1,830,000 (W. Zone)	Y 100,000	(N. Zone)
X 2,480,000(N. Zone)	X 120,000	(W. Zone)
X 180,000 (W. Zone)	X 2,420,000	(W. Zone)
X 2,420,000 (N. Zone)	X 180,000	(W. Zone)
X 120,000 (W. Zone)	X 2,480,000	(N. Zone)

The correction applies to the coordinate numbers only. Coordinates were plotted in correct position when the projection was made.

When transferring radial points from T-5792, this discrepancy was noted between the state grid lines on the two sheets. The coordinates inked in celluloid ink on this sheet should be rechecked in the Washington Office.

#### CONTROL

Only one triangulation station, DUNNARY, established in 1933 by H. C. Warwick, fell on this sheet.

No stations established by other organizations were used for control although traverse stations established by the Florida Mapping Project were used in the main plot. Reference is made to these stations in the paragraph following.

#### MAIN RADIAL PLOT

A continuous radial plot was run on August 10th. - 19th. for the location of radial points and marked hydrographic and topographic stations for the southern half of Sheet No. T-5786, Sheets Nos. T-5787 to T-5791, inclusive, and the northern part of Sheets No. T-5792 and T-5793. This plot involved all photographs except as noted below, which extended southward from a northern limit comprising photographs Nos. 3757, 3798 and 3720, for the three lines of flight to the southern limit formed by photographs Nos. 3832, 3833, 3866, and 3838, in general vicinity of Cedar Keys, Florida. Office prints for photographs Nos. 3741, 3799, 3800, 3834, 3857-58-59, were not furnished at the time of this plot by the Washington Office as sufficient overlap of photographs adjacent to them permitted their omission.

This plot consisted of 51 templates and extended for a distance of approximately 50 nautical miles along the axis of flight. Although triangulation control in this area is somewhat meagre, there was enough to rigidly fix 12 templates. Traverse stations established by the Florida Mapping Project in 1934 were used to rigidly fix 6 additional templates. These fixed templates were so distributed throughout the plot that it facilitated the laying of 11 templated which were controlled by only two triangulation stations or, as in some instances, by three triangulation stations which formed only a weak fix. There were 18 templates on which , there was but one triangulation control point and only 4 templates on which there were no control stations whatsoever. The latter, however, was accurately and rigidly controlled by radial points established by previously laid templates. All templates were prepared in accordance with "Notes on Radial Plotting of Nine-Lens Air Photographs" dated April 9, 1940 with the exception that many more radial points were located than recommended and that mask lines were not placed on the survey sheets.

It had been the practice of this party to run the plot on the base grid sheets after having transferred the control from the survey sheet. This plot was laid by this method without satisfactory results after three days of work. Investigation of the causes for such poor intersection of radial lines resulted in finding distortion which was unevenly distributed throughout the base grid sheets and which could not be completely eliminated by adjustment.

These errors, in several instances, amounted to as much as 20 meters in 4 grid squares. These grids had been ruled four months previous to this plot and probably accounts for the present large distortion. This method was therefore discarded and the second running of the plot was made directly on the survey sheets. This was completed in  $4\frac{1}{2}$  days with excellent results.

The eight survey sheets for which this main plot was to be run were securely taped to the plotting table. All templates rigidly fixed by control were then laid, followed by those which were controlled but not fixed by triangulation or traverse, and finally those which were controlled by previously determined radial points. Excellent results were obtained in securing radial intersections for the numerous points. It has been found that much time can be saved by relieving the draftsmen of the task of putting in additional radial points without a material slowing up of the process of preparing the photographs and templates.

Upon completion of laying all the templates, the radial points were transferred to "dummy" sheets and the templates removed from the survey sheets. The radial points were then transferred to the survey sheet by matching the intersections of parallels and meridians previously pricked into the "dummy" sheet. No distortion was apparent in the projections of the survey sheets and the radial points were transferred with little, if any, adjustment.

It is believed that all radial plotted points shown on the survey sheet by 2.5 m.m. diameter blue circles on the back of the sheet or black circles on the front are within 0.25 m.m. of their true position. Points determined by two radial lines are shown by a green circle and also in some cases where there are three or more cuts with slim intersections. In several instances, a radial point could not be determined with sufficient accuracy to be used as such, in which case the actual radial lines have been drawn on the survey sheet for further investigation with the photograph by the draftsmen.

No large or unusual adjustments were necessary in any part of this plot and very good agreement was obtained with radial intersections to the picture centers on adjacent flight lines. Agreement along the flight line was excellent and a majority of the radial points were picked from a common intersection of three or more radial lines. A few of the radial points selected were pricked in the center of gravity of the triangle of error which in all cases gave a position of not more than 0.22 m.m. in distance from the sides of the triangle.

Various colored inks were used on the photographs and the survey sheet to designate triangulation stations, topographic and hydrographic stations and radial points. The following key is furnished for future reference.

#### **PHOTOGRAPHS**

#### SURVEY SHEET

#### INTERPRETATION OF PHOTOGRAPHS

As the photographs were clear and field notes were adequate, no difficulty was experienced in the interpretation.

#### FIELD INSPECTION

The field inspection was made by Harold A. Duffy, Photogrammetric Aid, by truck and skiff during the months of April and June, 1940. The legend used by the field inspection party is made a part of this report.

#### DETAILING

Before any inking was done, the entire sheet was rubbed with dry magnesium carbonate and then washed off with a cotton wad soaked with water. No additional cleaning was necessary during the inking. The ink has adhered exceptionally well except in a few small places where it was rubbed off accidentially with a steel straightedge. These few places have been reinked.

The scale of the photographs was good.

Field print 3741 was used for some detail due to its clearness and good scale. No office print was made of photographs No. 3741.

#### JUNCTIONS

This sheet joins T-5790 on the north, T-5792 on the south, and T-5793 on the east. All junctions are in good agreement.

#### COMPARISON WITH OTHER SURVEYS

Comparison was made with a bromide print of Topographic Sheet No. 1426 b, made in 1876-77.

The shoreline agrees very well in general with the exception of some of the creeks and EAST PASS, where there are considerable discrepancies. These discrepancies are probably caused by errors in the plane table traverses in the early survey.

Due to large scale differences, accurate comparisons with the maps and charts of this area were not practicable.

#### GEOGRAPHIC NAMES

The investigation of geographic names on this sheet is the subject of a special report entitled "INVESTIGATION OF GEOGRAPHIC NAMES, HORSESHOE POINT TO ANCIOTE KEYS", submitted to the Washington Office by Lieut. E. L. Jones.

#### LANDMARKS

There are no prominent landmarks on this sheet.

Respectfully submitted,

James H.S. Billmyer

Draftsman

Forwarded,

Lieut. Kenneth G. Cros

#### LEGRED USED OF FIRED INSCRIPTION

#### HORSTSHOR POINT TO TAMPOH SURINGS. PIONIDA

APRIL - MICHESER, 1940 - LIEUT, M.L. JOHES AND H.A. DUTIT

#### THES

- Pine

- Cypress Сy

Palo - Palmetto

Palm - Palm

D T - Deciduous trees (broad leaf)

Cit - Citrus (orchard)

Mix - Pine, cypress & Dec. trees

(Donsity)

Sot - Scattered

tows - Thinly wooded

how- - Heavily wooded

Ser - Sorub trees: brush

#### **VACETATION**

- Cultivation

- Grass OF.

X - Harsh

MW - inreh grass in water (show limits)

84 - Swam

- MENUTOTO

Hog - Hedge

#### STALLS

- Camal (width)

- Creek Cr

- Disch (width)

I S - Intermittent Street

PM - Probable drainage unsurveyed

"Tg - Bridge or symbol

- Culvers JT.

lev - Levee

F.G.S. - Florida Goodetic Survey

U.S. Rogineers

USBS - U.S. Biological Survey

#### ROADS & KALLROADS

M 1 - let class road (paved)

- 2nd class read

2 - Trail

RR - Hail Boed

OP - Overpass (state the kind)

UP - Underpass (state the kind)

X - Abandoned trail, read, etc.

Hi ab. - R.R. abandoned (grade only)

#### PORIES

- Fond

Cy P - Cypress Pond

- Intermittent Pond

#### SHOPS LIDE

Howolo - mean high water line (solid

red line - fast land)

Low-Low mater line (dashed red line)

- Light line (solid blue line for L. L. meen high water line on marsh;

dashed blue line limits of grass

in water and also for inshore

limits of march area)

Ik. - Dock

Pr - Pier

- Seewall So ¥

Ekhd - Bulkhead Come - Comercte

Yo - Fooden

Jet - Joster

امه - Dolphin

pile - pile

S - Sand

ind - Mad

- Rock or Rocky 

- Stony Sty

- Veter V

- Bluff Blf

#### BUILDINGS

- House, barn or building R

- Church (give name) Ch

- Court House (give name) Ct H

- Boat House Bo H

- Post Office (give name) P.O.

HoHo Sts - Railroad station (give name)

- hospital (give name) hos

- School (give name) Sch

#### HISCELLA: 130US

- ferce

- Fire Break (maintained) PΒ

- Pire Break (abandoned) FKI

Cen - Cometery

Park - Park (give name)

P.T. - Pire fower

- Transmission towers (tall steel) T.T.

Po Lo - Power Line

Shoel - Approx. limits by long dashed line for use by hydrograpmer

#### AUFLE OF LIR PARTO CONDING TO NO. T- 5791

Chief of Party: Ecmoth U. Crosby

Compiled by: James H.S. Billmyer

Project: H.F. - 242

Instructions detect April 5.

1940

The charts of this area have been examined and topagrephic information necessary to bring the charts up to date is shown on this commilation. (Par-16a, b, c, d, e, g and is 26; and 64)

- Change in position, or non-existence of wharfs, lights, and other tepographic detail of particular importance to mavication which affect the chart, is discussed in the descriptive report. (Par. 86; and 66 g. m)
- Ground surveys by plane table, sextent, or theodolite have been used to supplement the photographic plot where necessary to obtain complete information, and all such surveys are discussed in the descriptive report. (per. 66; and 66 d,e)

Hone

- Blue-prints and maps from other sources which were transmitted by the field party contain sufficient central for their application to the charte. (Par. 28) Hone transmitted
- Difference between this compilation and contemporary plane table and hydrographic surveys have been examined and rectified in the field before forwarding the consiletions to the office and are discussed in the descriptive report.
- The control and adjustment of the shote plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 130; 44; and 65 c,h,1) Yes
- High water line or marshy and mongrove court is clear and adequate for chart compilation. (Par. 16s, 45, and 44)

See no. 17

MOTES Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph musbers refer to those in the Topographia Marmal. Refer also to the pamphlet "Notes on the Compilation of Planimetric Mine Maps from Five Lone Air Photographs."

- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 56, 57, 58, 59, 40, 41) Yes. Outline of shoal areas for use by hydrographer only.
- 9. Recoverable objects have been located and described on Form 584 in accordance with circular 80, 1985, circular letter of March 5, 1985, and eircular 31, 1984. (Far. 89, 80, and 57)

Yes

10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1984, Landmarks for Charts, compiled with. (Par. 164, e; and 60)

No landmarks

21. All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, olearance, and width of draw if a tree bridge. Additional information of impertance to marigation is given in the descriptive report. (Par. 14e)

Ho bridges of navigational importance. All bridges are fixed span highway bridges over small streams.

is. Gengraphie names are shown on the overlay tracing. The accepted limit upper of new names has been determined and they are listed in the percept, to either with a general statement as to the source of information and a specific statement when advisoable. Samplete disquestes as place names different from the charte and from the V.S. G. S. Qualitative is given in the descriptive reports together with resource for recommendations make. (For. 64, and 66k)

No overlay. See Special Report "Investigation of Geographic Names - Horseshoe Point to Anclote Keys" sub-

mitted by Ment. E.L. Jones.

18. The companie datum of the compliation is W.A. 1927 and the reference station is correctly noted.

Yes

- 14. Junctions with adjoining compilations have been examined and are in agreement. (Far. 66j) Yes
- 15. The drafting is matinizatory and particular attention has been given the following:
  - 1. Standard symbols authorised by the Board of Surveys and Maps have been used throughout except as noted in the roport.
  - R. The degrees and minutes of latitude and longitude are correctly marked. Yes, but values of coordinates on State grid should be rechecked. See paragraph headed GENERAL in main body of report.



#### DIVISION OF CHARTS

#### Surveys Section

#### REVIEW OF AIR PHOTOGRAPHIC SURVEY T-5791

#### Contemporary Surveys

There are no contemporary graphic control or hydrographic surveys in this area.

#### Previous Topographic Surveys

T-1426b (1:20,000) 1876-77.

There have been numerous and, in some cases, large changes in the physical features in this area since 1876. None of these need be discussed in this report. T-5791 supersedes that section of T-1426b which it covers.

# Low Water and Shoal Lines with the exception of the low water line on Suwanee Reef

The low water lines and shoal lines will be omitted from the published map T-5791 for the same reasons as stated in the review of T-5786. These details will remain on the celluloid drawing for use in making up the hydrographic sheets of this area.

#### Field Inspection and Detailing

The field inspection was adequate. The compilation of map details is complete and the rough drawing is satisfactory for redrafting.

With reference to the Director's letter of June 2, 1941, regarding the generalization of map details, the swamp areas and the areas of scrub timber could have been generalized on T-5791 to a greater extent without loss of important information. This is indicated by pencil notes on the ozalid print of T-5791 forwarded to the field party with this review.

In the marsh areas on this survey, it appears that some of the hairline streams at the upper reaches of the sloughs could have been omitted without detracting from the character of the drainage. However, it is not intended that the draftsman deliberate over the selection and omission of the small streamlines. They may be omitted if this will facilitate the field drafting, otherwise they should all be shown as was done on T-5791.

Air Photo Survey T-5691 - 2

#### Radial Plot

The main radial plot was made in one unit for 8 sheets and is discussed on Pages 2 to 3 of the Descriptive Report. Where the main radial plot covers two or more surveys, it is sufficient to describe the plot in one report only, and to cross reference the description in the remaining descriptive reports.

The plot has been accepted without checking in this office.

## Comparison with Chart 180 (printed 10/4/37).

The beacons at the entrance to East Pass could not be seen on the photographs and are not shown on this survey.

T-5791 has not been applied to the chart at the time of this review.

#### Time and Cost Records

Cost records are no longer necessary in the descriptive reports as these are submitted monthly on the regular unit report forms.

Reviewed in office by: D. H. Benson 5/21/41

Inspected by B. G. Jones 5/21/41

Examined and Approved:

Chief, Surveys Section

Chief, Topography Section

Chief, Division of Charts.

Chief, Division of Coastal Surveys.

Hydrographic stations located on celluloid manuscript but not shown on published copies added to file copy in red 11-11-43.

Remarks

Decisions

	reliid v2	Decisions
1		292831 . U.S.G.B.
2	·	29483 <b>1</b>
3		293831
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6	Submitted to USGB: OK to apply pending action	11 1
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Name on Survey	/ A,	/ B.	/ c,	D	E	F	G	H	K	_
Suwannee River										1
California Swamp										2
Big Pine Island										3
Little Pine Island	a wear									4
Coon Island										5
Sanders Creek		1								6
Crutchman Island										7
Little Bird Island										8
Bumble Bee C eek										9
Bumble Bee Island			Buel	lebee	show	the or	e wo	4		10
South Double Barrel	Greek									11
Cat Island										12
Salt Creek										13
Demory Hill										14
Boiler Gap										15
Suwannee Reef										16
Suwannee Sound										17
West Gap										18
Halfmoon Reef										19
V Lone Cabbage Reef		-								20
Axo Island		1								21
Little Bradford Isla	nd									22
Bradford Island										23
Northwest Pass										24
Wadley Pass										25
Alligator Pass									1	26
										27
West Pass						1		-		M 234

Remarks.

Decisions

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Name on Survey	/ A,	B,	<u>/ c,</u>	<u> </u>	E	<u> </u>	G	<u>/ H</u>	<u>/ ĸ</u>
Features in Suwannee	River	and Ear	t Pass		ļ		-		<u> </u>
Harden Creek	ļ	<u> </u>			<u> </u>	<del> </del>	ļ	ļ	<u> </u>
Little Harden Creek	ļ		<u> </u>			<u> </u>	<u> </u>	<u> </u>	ļ
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Dead Boy Creek		ļ		 			<u> </u>		
Gopher River							<u> </u>		
Shingle Creek	<u> </u>								
Monden Creek									<u> </u>
Monden Camp									
U. Lee Bend									
Wisher Creek									
Long Reach									
Sandfly Creek									
Flag Creek									
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Remarks

Decisions

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9	Submitted to USGB: OK to apply per	ading action "
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12	Texaco and Shell Road Maps	
	Direction note	
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	Wooks Fisher Creek			ļ ļ						_	6
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	Little Trout Creek									_	9
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