

8419

Diag'd. on diag. ch. No. 1248-2

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. T-8419 Office No. \_\_\_\_\_

LOCALITY

State Florida

General locality Palm Beach County

Locality ~~W. of~~ Palm Beach Farms

1946

CHIEF OF PARTY

Lieut. Comdr. George E. Morris, Jr.

LIBRARY & ARCHIVES

DATE March 23, 1948

8-1870-1 (1)

8419

Note:-

Quadrangle name supplied by letter  
from W.A. Rouse dated: 5 Feb 1948 →

B 2/12/48

DATA RECORD

T-8419

Quadrangle (II): <sup>PALM BEACH FARMS</sup> ~~T-8419~~

Project No. (II): CS 312A

Declination 1° 15' East

Field Office: Miami, Florida

Chief of Party: Lt.(j.g.) Lewis V. Evans III

Compilation Office: Tampa, Fla.

Chief of Party: Lt. Comdr. Geo. E. Morris, Jr.

Instructions dated (II III): 5/24/45

Copy filed in Descriptive Report No. T- (VI)

Division of Photogr Office Files

Completed survey received in office: 11-22-46

Reported to Nautical Chart Section: ✓

Reviewed: 27 Mar 47 Applied to chart No. Date:

Redrafting Completed:

Registered: 3-6-48 Published:

Compilation Scale: 1: 20,300 Published Scale: 1: 24,000

Scale Factor (III): 0.98522

Geographic Datum (III): N.A. 1927 ✓ Datum Plane (III): M.S.L.

Reference Station (III): Fergan, 1934 ✓

Lat.: 26° 40' 47.945" (1475.6m) Long.: 80° 12' 05.255" (145.3m) <sup>Adjusted</sup> ~~Unadjusted~~

State Plane Coordinates (VI): Florida East Zone

X = 760,762.22 feet Y = 853,625.57 feet

Military Grid Zone (VI) "B" no overlapping zone

\* See Review Report for Discussion of Name

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
12146	11/25/42	11:21 A.M	1:20,300	Inshore quadrangle
12147	"	"	"	
12148	"	"	"	
12175	"	11:50 A.M.	"	
12176	"	11:51	"	
12177				

Tide from (III): None

Mean Range: None Spring Range:

Camera: (Kind or source) U.S. C. & G. S. 9-Lens

Field Inspection by: J.K. Wilson date: Apr. 1946

Field Edit by: J.K. WILSON date: Oct. 1946

Date of Mean High Water Line Location (III): None - Inshore quadrangle

Projection and Grids ruled by (III) Washington Office date:

" " " checked by: " " date:

Control plotted by: R.J. Pate date: 6/20/46

Control checked by: M.M. Slavney date: 6/21/46

Radial Plot by: M.M. Slavney date: 7/1/46

Detailed by: R.J. Pate date: 8/19/46

Reviewed in compilation office by: J.A. Giles date: Aug. 1946

Elevations on <sup>Manuscript</sup>~~Field Edit Sheet~~ checked by: J.A. Giles date: Aug. 1946

STATISTICS (III)

Land Area (Sq. Statute Miles): 66.45

Shoreline (More than 200 meters to opposite shore): None

Shoreline (Less than 200 meters to opposite shore): 8.6

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles: 33

Roman numerals indicate whether the item is to be entered by,

(II) Field Party, (III) Compilation Party, or, (VI) the Washington Office.

When entering names of personnel on this record give the surname  
and initials (not initials only).

Remarks:

\* This project was originally started  
as a planimetric mapping project  
and during progress of the field work  
was converted to a topographic mapping  
project.

B. Jones

## FIELD INSPECTION REPORT

to accompany  
Map Manuscript for  
Quadrangle T-8419 Project CS 312A

### 1. DESCRIPTION OF THE AREA

This quadrangle is located between lat.  $26^{\circ} 37' 30''$  and lat.  $26^{\circ} 45' 00''$  long.  $80^{\circ} 07' 30''$  and long.  $80^{\circ} 15'$ ; on the east coast of Florida, in Palm Beach County and just west of the city of West Palm Beach, Florida.

80 The land area contains mostly scattered pines, cypress, and intermittent ponds. There are only two major highways. These are <sup>7</sup> state highway (25) and state highway (199) (range line road). The Palm Beach County Canal runs through the entire quadrangle. In the extreme <sup>West</sup> southeastern part of the quadrangle there is a small portion of the unincorporated town of ~~Green Acres~~ <sup>Greenacres</sup> City.

At the present time the greater portion of this quadrangle is used for the pasturing of cattle. For this reason there are very few buildings in the area.

Elevations vary between sixteen and eighteen feet throughout the entire quadrangle, except for a few super-elevated roads, canals, and other man-made changes.

### 2. COMPLETENESS OF FIELD INSPECTION

The field inspection has been completed in accordance with recent instructions. Only a small portion of this area had been previously inspected by the planimetric party and it was found necessary to reinspect this to make it comply with present instructions. Roads and woodlands were reclassified. ✕

In cases where the inspection under the two projects conflict, it is recommended that the more recent notes be used, for this area is subject to rapid changes.

Attention is called to the west central portion of this quadrangle where there are active borrow pits in operation. This should be checked on the field edit.

### 3. INTERPRETATION OF THE PHOTOGRAPHS

The photographs were easily interpreted. Vegetation of this area, which is mostly cypress, is of a grayish tint on the photographs. The pines are more of a darker tint and show up more or less as a speckled density.

#### 4. HORIZONTAL CONTROL

The horizontal control was recovered by the planimetric field party.

#### 5. VERTICAL CONTROL

The bench marks in this quadrangle were recovered by Mr. George C. Whitehurst, Junior Engineering Aid. Bench mark D-97, which was located along state highway 199 (range line road), has been destroyed by the Florida State Highway Department since the date of Mr. Whitehurst's recovery note. Also bench marks F-97, H-97, J-97, and N-97, which were located south of quadrangle T-8419 along this highway, were destroyed at this time. In conferring with the state engineers concerning this highway, it was learned that they have saved the original disks and will reset them in the headwall of the culverts nearest to their original positions. New recovery notes are submitted for the above mentioned bench marks.

Supplemental level lines for contour control were run throughout the entire quadrangle between USC&GS bench marks and previously established temporary bench marks, and identifiable points were marked on the photographs along roads and canals.

Major level lines were closed within the degree of accuracy required by the instructions issued to the War Mapping field party, and adjusted. Intermediate lines were adjusted only where the closing error exceeded 0.2 foot. Level elevations were inked in blue on the photographs.

The levels in this area were run by George C. Whitehurst, Junior Engineering Aid.

#### 6. CONTOURS AND DRAINAGE

The contouring was done by a four-man planetable party on nine-lens photographs in charge of Mr. Ben O. Bryant, except for a small portion and this was done by Mr. J. K. Wilson.

The area just west of state highway 199 (range line road) is now under water. Identifiable points with elevations are shown on the north and east limits of this area. Adequate notes have been made on the photographs and the area outlined. It is recommended that this area be checked or contoured on the stereocontourplotter, although from observation there are probably no 15-foot contours in this area. Level elevations now shown on state highway 199 (range line road) are no longer correct as this road is now under construction; however, these elevations will be sufficient for the use of the stereocontourplotter.

On the junctioning quadrangle (T-8420) to the south there is a 20-foot contour shown along state highway 199 (range line road). At



present, there is no 20-foot contour along this highway but no definite elevations could be established at this time because of the highway being under construction.

In the northeastern portion of this quadrangle there is a small area in which no elevations have been shown. This area was inaccessible during the time of the contouring work. From observation it is believed that there will be no 5-foot interval contours in this area.

A 10- and 15-foot contour runs along both sides of the West Palm Beach Canal across the entire quadrangle. Many 15-foot contours in small ditches have been omitted as the ditch represented a depression in itself.

There is no natural drainage in this quadrangle.

7,8,9,10,11, and 12 are inapplicable to this quadrangle.

13. LANDING FIELDS AND AERONAUTICAL AIDS

There are no landing fields or aeronautical aids in this quadrangle.

14. ROAD CLASSIFICATION

All roads have been classified according to the latest instructions dated June 30th 1945. This work was done by Mr. J. K. Wilson.

15. BRIDGES

All bridges were classified according to latest instructions by Mr. J. K. Wilson.

16. BUILDINGS AND STRUCTURES

All buildings and structures have been circled in red on the photographs by Mr. J. K. Wilson.

17. BOUNDARY MONUMENTS AND LINES

Precinct boundary lines were shown by the planimetric field party on the nine-lens photographs under the immediate supervision of Mr. George E. Varnadoe.

18. GEOGRAPHIC NAMES

This has been the subject of a special report by Mr. Lowell I. Bass. *See names list, approved by L. Hecks, attached to this report.*

19. SECTION CORNERS

Only nine section corners were recovered in this quadrangle. A very thorough search was made in regard to these corners. Mr. J. Boyd,

County Engineer, Mr. Weybrecht, local land surveyor, and the Lake Worth drainage district engineer were contacted in regard to these corners. Very little information could be obtained from these sources. No original field information was available with regard to the nature of these corners. Of the nine corners that have been pricked on the photographs, some of these could very easily be incorrect as is noted on the pricking cards; several pipes were found at some points.

*See  
Review  
Report.*

According to information obtained from the Lake Worth drainage district engineer, it seems that most of the area within this quadrangle was subdivided by what is known, locally, as the block system and the section lines were more or less disregarded. The engineer seemed to think that we would have much better luck finding corners in the area north of this quadrangle. If there have ever been any section corners along state highway ~~100~~ 107 (range line road) these have been recently destroyed by construction work.

Pricking cards are being submitted for these corners and it is recommended that the corners that are doubtful be used with caution.

Respectfully submitted,

*Joseph K. Wilson*  
Joseph K. Wilson

Approved and forwarded:

*George E. Morris, Jr.*  
Lieut. Comdr. George E. Morris, Jr.  
Chief of Party

COMPILATION REPORT  
TO  
ACCOMPANY QUADRANGLE  
T-8419

26 & 27 CONTROL AND RADIAL PLOT:

A special report by M.M. Slavney, Photogrammetric Engineer, covering main radial plot was submitted with the compilation report accompanying Map Manuscript No. T-8416. *Not available*

*There is only one  $\Delta$  station: Fergan, 1934 (d.m.)*

28 DELINEATING:

*J.R. 27 Mar 47  
OK  
Filed in Div. of  
Phot. Gen'l. Files*

All photographs were clear and of fair scale. Photograph No. 12176 being the best was used considerably, although portions of some of the field prints were found to be of exceptionally good scale and considerable delineation of cultural features was taken from them. Single lens photographs No. 2234 through 2239 were not used in the delineation of this quadrangle since common detail points could not be found on the nine-lens photographs. The nine-lens photographs are three years older than the single lens photographs.

All features to be mapped were outlined on photographs 12176, 12177, 12146 and 12148 using the stereoscope.

Field inspection of this area was very satisfactory.

Reference is made to a letter written on 29 July 1946 by Lieutenant Commander George E. Morris, Junior, to the Chief of the Division of Photogrammetry. The subject of the communication was the treatment of gladelands on quadrangles T-8416, T-8417 and all similar areas to be mapped within project CS-312.

29 SUPPLEMENTAL DATA:

None.

30 to 36 NOT APPLICABLE:

37 PUBLIC LAND LINES:

Land lines on this quadrangle are to be added in the Tampa Office before field edit.

44 COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES:

No topographic quadrangles were available for comparison.

45 COMPARISON WITH NAUTICAL CHARTS:

Inapplicable.

Respectfully submitted,

*Russell J. Pate*

Russell J. Pate,  
Photo. Aid.

Approved and Forwarded:

*Geo. E. Morris, Jr.*

\_\_\_\_\_  
Lt. Comdr. Geo. E. Morris, Jr.  
Chief of Party.

FIELD EDIT REPORT  
QUADRANGLE T-8419  
PALM BEACH FARMS

No. 46 METHODS:

In field editing the map manuscript all roads were traversed by truck. There were very few roads in this quadrangle, so therefore it was necessary to walk in many places. All buildings, roads, ditches, cleared areas, etc., added to the map manuscript were done by plane-table methods, except for a very few instances where measurements were plotted from topographic features.

No. 47 ADEQUACY OF THE MAP MANUSCRIPT:

The map manuscript was adequate and correct except for a few changes made since the date of the original field inspection.

Attention is called to the Rangeline Road (State Highway No. 7) (199). The construction of this road was not completed at the date of the field edit. In conferring with the state engineers concerning this highway, it was learned that the final grade of this highway within the limits of this quadrangle will be between the elevations of 20.5 feet and 21.5 feet. Therefore, a 20 foot contour should be shown along both sides of this highway throughout its entire length. *← Shows as class 3 road with note "Road being reconstructed".*  
J.P.

The following bench marks located along the above mentioned highway (see descriptive report of quadrangle T-8419) D-97, F-97, H-97, J-97, and N-97 have been reset by the Florida State Highway Department in the head wall of the culvert nearest to their original position. Descriptions of the bench marks have been submitted by the Florida State Highway Department to the Washington Office.

*These B.M.s were removed from manuscript.*  
J.P.

Bench mark C-97 which is located along the above mentioned highway was destroyed in October 1946. Form 685 is being submitted with the field edit.

Attention is called to section lines within the quadrangle. The corner that was pricked at approximate latitude  $26^{\circ}42'20''$  and approximate longitude  $80^{\circ}10'20''$  is believed to be a block corner and should not be used in the construction of the land lines. An ozalid print of the quadrangle is being submitted with the approximate section lines shown on the print. A thorough search and investigation was made of all section corners within the quadrangle, but no additional corners were recovered.

Attention is called to approximate latitude 26° 41' and approximate longitude 80° 10'. There are active borrow pits within this area and no attempt was made to draw the contours within the pits.

This area is sparsely settled but it was noted during the field edit that many buildings shown on the field inspection photographs had been omitted by the draftsman.

No. 48 VERTICAL ACCURACY TEST:

There was no vertical accuracy test run in this quadrangle.

No. 14 ROAD CLASSIFICATION:

All roads were classified according to the instructions dated 30 June 1945.

No. 49 WOODLAND:

Some few woodland changes have been made of areas that have been recently cleared. The discrepancy sheet has questioned the appearance of cypress within the limits of intermittent ponds. In many instances throughout the entire quadrangle small groups of cypress will be found within the limits of intermittent ponds.

It was noted during the field edit that the gladeland area has been treated in accordance with instructions for quadrangle T-8416. This new classification for gladeland seems to be very satisfactory.

*The discrepancy sheet did not question the appearance of cypress in intermittent ponds. There was a note for the attention of the compilation office that cypress could not be shown with an intermittent pond symbol on the published map.*

No. 18 GEOGRAPHIC NAMES:

The geographic names for this quadrangle will be submitted in a special report by Mr. Lowell I. Bass. Only a small portion of the unincorporated town of Greenacres City was included on map manuscript. This small portion is located in the extreme southeastern part of this quadrangle. See Mr. Bass's report in regard to Greenacres City.

*J. R.  
25 May 47*

This map manuscript was examined for possible errors by Mr. B. Woolbright. Mr. Woolbright is the engineer for the Lake Worth Drainage District. He found no errors in names but he was very helpful in connection with section lines in this area. Mr. Woolbright's address is Boynton Beach, Florida.

No. 50 DATE OF FIELD EDIT:

The field edit work was accomplished during the month of October, 1946.

Respectfully submitted,  
*Joseph K. Wilson*  
Joseph K. Wilson

Approved and forwarded:

*George E. Morris, Jr.*  
George E. Morris, Jr.  
Chief of Party.

*Most of the field edit corrections were made in the  
Compilation Office, Tampa Fla.*

J. R.

T-8419 will be smooth drafted in the Division of Photogrammetry, after which it will be forwarded to the Geological Survey for publication. The following data regarding T-8419 are filed and may be obtained as follows:

- (a) The 1:20,000 scale manuscript corrected after field edit is filed in the Div. of Photogrammetry and may be obtained on request.
- (b) The field edit sheet is filed in the Division of Photogrammetry.
- (c) The descriptive report, together with a 1:20,000 scale photographic copy of the manuscript, is being registered in the Coast and Geodetic Survey archives at this time. When T-8419 is published, a cloth-backed color print will also be registered in the archives. The descriptive report may be obtained on request.

*B. G. Jones*

B. G. Jones  
Technical Assistant to the  
Chief, Div. of Photogrammetry  
March 9, 1948



Division of Photogrammetry  
Review Report of  
Topographic Map Manuscript T-8419

Subject numbers not used in this report have been adequately covered in other parts of the descriptive report.

28. Detailing.

State Highway No. 80 was classified as a Road 2 by the field party. As it is a primary highway between Tampa and West Palm Beach, the reviewer has reclassified it to Road 1 on this map manuscript and the adjoining one, T-8418.

A road in the northwest portion of this map manuscript is shown crossing several intermittent ponds. Such roads are invariably questioned. However, there are many roads in this locality that cross both intermittent and perennial ponds. The ponds are quite shallow and have hard sand bottoms.

The eastern boundary of the Everglades has been shown by a green dashed line on the map manuscript.

The boundary of the Radio Range and Beacon Station was obtained from the plan of Morrison Field.

The extent of the borrow pits at the time of field edit has been indicated by a dashed line. Hachures and ponds within these limits will be disregarded by the smooth draftsman.

A drafting overlay has been prepared by the reviewer to aid the smooth draftsman and editor.

37. Section Lines and Corners.

The map manuscript indicated nine corners recovered by the field inspection party. One of these falls outside the quadrangle limits and four proved to be block corners, i.e. corners established during the subdivision of West Palm Beach Farms. No additional stations were located by the field edit party.

The four recovered section corners were used in conjunction with the General Land Office Plats, recovered corners from adjacent quadrangles and such topographic features as Range Line Road to reconstruct the public land line net. The section lines and numbers were inked in red by the reviewer.

38. Junctions.

Satisfactory junctions with adjoining quadrangles were accomplished to the east and south. To the north T-8416 was not available at the time of this review.

48. Accuracy Tests.

There were no accuracy tests made in this quadrangle. An account of the vertical accuracy test run in the adjoining quadrangle, T-8418, is included in the Descriptive Report for that quadrangle.

~~It is believed that~~ This map complies with the national standard map accuracy requirements.

Reviewed by:

Jack L. Rihn  
Jack L. Rihn 27 Mar. 1947  
Photogrammetrist

Reviewed under direction of:

S. V. Griffith  
S. V. Griffith  
Chief, Review Section

Approved by:

B. A. Jones 3/48  
Technical Assistant to the  
Chief, Div. of Photogrammetry

H. Stenning  
Chief, Nautical Chart Br.  
Division of Charts

K. T. Adams  
Chief, Div. of Photogrammetry

C. K. Green  
Chief, Div. of Coastal Surveys

GEOGRAPHIC NAMES

Survey No.

T-8419

7 1/2' quadrangle  
Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Florida</u>			(for title)						1	
<u>Palm Beach County</u>			" "						2	
<u>West Palm Beach Farms</u>			" "						3	
									4	
<u>West Palm Beach Canal</u>									5	
<u>Greenacres City</u>									6	
<u>State No. 7</u>			<u>Rangeline Road</u>						7	
<u>State No. 80</u>									8	
									9	
There being at this date no title for this quadrangle, it is suggested									10	
that it be called "West of Palm Beach"---a vague name that is used in									11	
similar fashion in one or more USGS quadrangles in Louisiana and Texas.									12	
Since T-8418, to the eastward, is called "Palm Beach", the two might									13	
be called "Palm Beach East" and "Palm Beach West" (as in the case of "Fort									14	
Lauderdale North" and "Fort Lauderdale South" (T-8427 and T-8428). The									15	
first suggestion might be preferable, since there is no partial showing									16	
of Palm Beach on T-8419, as in the case of the two Fort Lauderdale quads.									17	
									18	
			Names underlined in red are approved.						19	
			1/20/48	K. Heck						20
									21	
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