

4457b

4458b

Diag. Cht. No. 1248-1

Form 504

## U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey

Topographic

Field No.

Office No.

## LOCALITY

State

Florida

General locality

East Coast

Locality

Palm Beach to

Jupiter Inlet

1929

CHIEF OF PARTY

J. Senior

LIBRARY &amp; ARCHIVES

DATE November 20, 1929

B-1870-1 (13)++

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Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
....., Director	
State: Florida	<div>U. S. COAST AND GEODETIC SURVEY L. &amp; A. NOV 30 1929 Acc. No.</div>
DESCRIPTIVE REPORT	
Photo Control Topographic Hydrographic	A&B Sheets No. 4457b and 4458b
LOCALITY	
East Coast	
Palm Beach to Jupiter Inlet - 4457b	
Jupiter Inlet to Vic of St Lucie Inlet - 4458b	
1929	
CHIEF OF PARTY	
J. Senior	

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC AERO-

CONTROL

SHEET NOS. "A" and "B"

of

PALM BEACH

North to two miles below St. Lucia<sup>e</sup> Inlet.

M. V. Natoma

Jack Senior, Comdg.

Season 1929

# DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC AERO-PHOTO CONTROL SHEET NUMBERS "A" AND "B"

of

PAIM BEACH -- North -- to Two miles

below St. Lucia<sup>e</sup> Inlet.

## Authority:

This work was executed in accordance with Director's Orders dated January 7th, 1929.

## Limits of Sheet #A and #B:

Sheet #A; this sheet includes, both shores of Lake Worth from the north bridge at West Palm Beach to the Singer Hotel bridge, Lake Worth Inlet, and the shore on the outer coast from  $\Delta$  Drift to two miles south of Jupiter Inlet.

Sheet #B; commences two miles south of Jupiter Inlet and goes north to within two miles of St. Lucia<sup>e</sup> Inlet. Jupiter Inlet was surveyed on an insert of scale 1:10,000.

## General Description:

The section of Lake Worth Inlet north is formed almost entirely by a sand beach with a steep sand bank at storm high water line. This bank ranges from one foot to about seven feet in height. It is highest at  $\Delta$  Palm.

The vegetation consists of grass, scrub palmetto and palmetto which commences at the top of the bank and extends inland over the more or less conspicuous low sand hills, in back of which are slightly higher wooded sand hills. The shore from Lake Worth Inlet to Jupiter Inlet is devoid of dwellings.

## Landmarks:

In making Lake Worth Inlet from the north the prominent landmarks seen are as follows: Hobe Sound Water Tank, Jupiter Inlet Light, Kelsey City Water Tank, then the unfinished Singer Hotel (Signal Tall) which is about  $3/4$  mile north of the entrance. In approaching the Inlet from the south are seen: The north and south flag-poles of the Breakers Hotel, the north and south cupolas of the Alba Hotel, and the Water Tank at Palm Beach. From the Breakers Hotel to the Inlet the beach is well built up having wooden and concrete retaining walls and beautiful mansions.

(Water Tank  
(Singer Hotel)  
See Landmarks for Club)

(Descriptive report to accompany Topo. Aereo-Photo Control Sheet #A and #B  
of Palm Beach north to two miles below St. Lucia Inlet,--cont'd).

Control and adjustment of closing error:

Lake Worth, Lake Worth Inlet and the outer coast from  $\Delta$  Inlet to  $\Delta$  Drift was done by plane table triangulation and plane table traverse. This part was run in advance of traverse. In closing on  $\Delta$  Drift it was found to be out a little in azimuth. The error was found to commence at Latitude of Signal Club and was carried forward for the remainder of the survey of the northern part of Lake Worth, and also on the outer coast of Palm Beach to  $\Delta$  Drift. This was due to using  $\odot$  Tall erroneously located for orientation of the area. The location by traverse of signals  $\Delta$  Kelsey City Water Tank,  $\Delta$  Bea,  $\Delta$  Ridge,  $\Delta$  Inlet,  $\Delta$  Dill, and  $\Delta$  Drift, and the topo relocation of  $\odot$  Tall and the setup points at  $\odot$  Club and a setup point opposite  $\odot$  Club was used as control for swinging in the shore line. The topo location between these signals corresponded exactly with the traverse location. Traverse control was used from  $\Delta$  Ridge north.

Locating Traverse Stations and Prominent objects on Photographs:

In all cases where available in the vicinity of traverse stations a sufficient number of distances and directions to surrounding detail was obtained and plotted on an insert on a scale of 1:10,000.

The Azimuth of the Singer Hotel bridge was obtained but no detail was available to locate the setup point. Probably could use the distance between the east gable of the house on the bridge to the setup pt. and plot it in the center of the road. No detail was available to locate the setup point for the south breakwater at Lake Worth Inlet, so the point was located by a three point fix using North Breakers Hotel Flag, Rear range entrance light, Bea, south gable white house on Singer Bridge and distance measured to  $\Delta$  Inlet.

The Azimuth of roads, leading away from the beach and intersections of crossroads were even possible were obtained, but at these setup points no prominent objects were available for location purposes on photo. The center of crossroads make a definite location point.

*The following data is included with  
this report:*

*3 pages of "Photo-Control Points."  
4 pages of "Plane-Table positions."  
1 sheet "Landmarks for Charts"*

*JCS*

LIST OF PROMINENT POINTS WHICH ARE DISTINGUISHABLE ON THE PHOTOGRAPHS:

These points are encircled on the photographs with a 4-H pencil and numbered. The number of the photograph and number of the circle is at the heading of each description. The latitude and longitude of these prominent points can be found in the list of Plane Table Positions.

F-496 (1. Comeau Bldg. Chmy):

This building is on the N. side of Clematis between Broadway and Olive streets. The Chimney on this building was located by topo cuts.

(2. West Palm Beach Catholic Church):  
Old  $\Delta$  Station. Church spire.

(3,4,5,6,& 7.)

These points are shown on a scale of 1:100,000 on topo sheet #A. Were located in order to establish signal  $\Delta$  East.

3, takes three point into consideration. The NE, NW, and SW corners of the State Board of Health Building.

4, Is the S.E. Corner of F.E.C.R.R. Station.

5, " " N.E. " " " "

6, " " S.W. " " Campbell's Furniture Warehouse.

7, " " S.E. " " " " "

8. Approximate location of Signal  $\Delta$  East.

9,10, & 11. The three corners of the Elks Club building.

12,13 & 14. The three corners of the Crane Building were located by topo in order to fix points  $\square$  2nd and  $\square$  3rd to get azimuths of 5th street and azimuths of R.R. over N. bridge.

15. Brick chimney on house on n. bridge.

16. Top and center of water tank, Palm Beach.

17. Royal Poinciana Hotel, Flagpole, old  $\Delta$  Station.

18. " " " Chimney, " " "

19. S. Flag pole of Breakers Hotel. *on capole*

20. N. " " " " " "

21. S. " " Alba " "

22. N. " " " " "

23. Topo setup center and 3 m. from W. face of concrete pier.

24. Topo banner signal on NE corner of Stationary platform on north side of boat landing pier.

2.  
II. List of Prominent points which are distinguishable on the photographs - cont'd.

F-496, (25. Topo Banner signal on Pier. Location as shown.



26. Tall black stack.

F-498, (27. Golf club flag pole.

F-501, (28. Flagpole on Sailfish Club House.

(29. Rear Range Lt. Lake Worth Inlet.

(30. Front " " " " "

F-503, (31. S. Gable of House on bridge.

F-503, (32. Singer Hotel. Eastern Outline of building determined by plane table.

△ Hotel on N. Cupola (center).

○ Tall, highest point on building. Center of S. Cupola on middle wing.

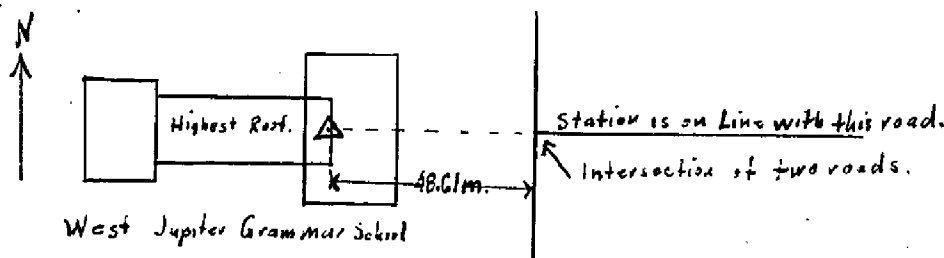
○ Here in N.E. corner of porch of S. wing.

F-505, (33. Kelsey City water tank, highest point. Determined by triangulation  
△ Tank.

F-516, (34. Lathe covered area where asparagus ferns are grown.

F-519. (35. △ Bend see insert scale 1:10,000.

(36. W. Jupiter Grammar School. Determined by triangulation.



F-520. (37. S. end of Jupiter Inlet bridge.

(38. Center of roof of small house on Jupiter Inlet bridge.

(39. N. end of Jupiter Inlet bridge.

(40. Small wharf near Jupiter Lt.

(41. Jupiter Lighthouse.

(42. Intersection of Dixie Highway & Beach Road & also road to Jupiter Lt.

(43. W. end of Bridge.

(44. Center of draw span of bridge.

## III. List of Prominent points which are distinguishable on the photographs- cont'd.

F-520 (45. E. End of bridge.

F-528 (46. See insert to locate signal HILD.

(47, 48 & 49. Azimuth of roads leading away from main road.

F-530 (50. See insert to locate  $\Delta$  Yates.

F-532 (51. See insert to locate  $\Delta$  Dyer.

(60. Hobe sound Water Tank.

F-534 (52. Azimuth of road leading away from beach.

(53, 54. Intersection of two roads.

(55, 56. E. and W. end of bridge over inside route. This bridge is now being torn down and will be replaced by a new one.

F-535 (57. Location of  $\Delta$  Royal.

(58. The NE, SE, and SW corners of Big Whitehouse.

F-537 (59. Roadends here, there has been a <sup>cession</sup> ~~recession~~ of the shore from this point north as shown on the topo sheet.

Respectfully Submitted

*Walter J. Chovan*  
Walter J. Chovan  
Jr. H & G Eng.,

Recommended for Approval:

*Jack Senior*  
Jack Senior,  
H & G Engr.,



I Sheet A. PLANE TABLE POSITIONS

(4 pages)

Object & Description	Lat.	D.M.	Long.	D.P.	Remarks.
Comeau Bldg Chimney	26° 42'	(355) 1491	80° 03'	(1363) 304	Top
Breakers Hotel S. Flagpole	26 42	(238) 1608	80 02	(1544) 117	Top
" " " "	26 42	(171) 1675	80 02	(1540) 118	Top
Water Tank, Palm Beach	26 43	(1675) 171	80 02	(864) 794	Top
S. Cupola Alba Hotel	26 43	(1494) 352	80 02	(810) 848	Top
N. " " "	26 43	(1433) 413	80 02	(817) 841	Top
Tall Black Stk	26 43	(837) 1009	80 03	(1047) 611	Top
Brick Chmy Ho. on N. Brdg.	26 43	(1695) 151	80 02	(234) 1424	Top
Stop	26 43	(1680) 166	80 02	(418) 1240	Top of Stop sign.
Pal	26 43	(1301) 545	80 02	(72) 1586	Sig. on Palm Tree.
Jac	26 43	(824) 1022	80 03	(1634) 24	Banner Sig. on Dock.
Flag Pole on wharf	26 43	(376) 1470	80 02	(766) 892	Base of pole
W. Gable of Boat House	26 43	(247) 1601	80 02	(768) 890	N'y of 2 Bt. Houses.
Ban	26 43	(201) 1645	80 02	(43) 1615	Banner Signal.
Cen	26 44	(1440) 406	80 02	(844) 814	Top of Cupola.
Flag	26 44	(1273) 573	80 03	(1565) 93	Top of Flagpole.
Golf Club Flag pole	26 44	(331) 915	80 02	(1415) 244	Top
Poc	26 44	(723) 1123	80 02	(135) 1523	Banner Signal
Ho	26 44	(330) 1516	80 02	(803) 855	W. Gable of Bt. House
Sig	26 44	(30) 1816	80 03	(1624) 34	Center of Wh. Sign
N Fence Post	26 45	(1476) 370	80 03	(1485) 173	Durham's Estate. Top
Club	26 45	(548) 1298	80 02	(871) 787	Top of Flagpole on Sailfish Clubhouse.
Dot	26 45	(226) 1620	80 02	(122) 1536	Top of S Dolphin
Mass	26 46	(1712) 134	80 02	(123) 1535	Top of S Mooring Dolphin.
Lt on N Mooring dolphin	26 46	(1645) 201	80 02	(132) 1526	Top
Front Range entrance Lt.	26 46	(1692) 154	80 03	(1541) 117	Top

V9'6.



## III. Sheet A. PLANE TABLE POSITIONS

Object & Description	Lat.	D.M.	Long.	D.P.	Remarks.
Al	26° 48'	(830) 1016	80° 02'	(1543) 114	Flag sig
Are	26 48	(572) 1274	80 02	(1481) 176	Ban sig
Wa	26 48	(5) 1841	80 02	(1311) 346	Ban sig
Now	26 49	(1109) 737	80 02	(1107) 550	Ban sig
Z	26 49	(318) 1528	80 02	(981) 676	Ban sig
Yea	26 50	(1345) 501	80 02	(779) 977	Ban sig
Xi	26 50	(1060) 786	80 02	(705) 952	Tripod sig
Big	26 51	(1745) 101	80 02	(461) 1195	Tripod sig with Ban
Wag	26 51	(1454) 392	80 02	(421) 1235	Tripod sig
Van	26 51	(1188) 658	80 02	(391) 1265	Ban sig
Ugh	26 51	(419) 1427	80 02	(216) 1414	Ban sig
Tap	26 52	(1471) 375	80 02	(14) 1642	Ban sig
Rat	26 52	(837) 1009	80 03	(1488) 168	Ban sig
Qua	26 52	(683) 1163	80 03	(1423) 233	Top of Sign post
Fot	26 52	(195) 1651	80 03	(1256) 400	" " " "
Oil	26 52	(4) 1842	80 03	(1207) 449	Bansig on Tel.pole
Red	26 53	(1720) 126	80 03	(1172) 484	Center of red sign
Nil	26 53	(1550) 296	80 03	(1113) 543	Bansig on Tel.Pole
M	26 53	(1236) 610	80 03	(1028) 628	E end of Sign.
Low	26 53	(836) 1010	80 03	(933) 723	bansig on tel.pole.
Kim	26 53	(522) 1324	80 03	(865) 791	bansig on tel.pole.
Tow	26 53	(397) 1449	80 03	(426) 1230	Top of steel tower.
Jug	26 54	(1552) 294	80 03	(639) 1017	bansig on tel.pole
Inn	26 54	(1392) 454	80 03	(591) 1065	Top, diamondshaped
Hit	26 54	(1151) 695	80 03	(498) 1158	signboard.
Gun	26 54	(720) 1126	80 03	(367) 1289	Top

✓ 9513

## IV. Sheet A. &amp; B. PLANE TABLE POSITIONS

Object & Description	Lat.	D.M.	Long.	D.P.	Remarks.
Yel	26° 54'	(227) 1619	80° 03'	(233) 1423	Top yellow sign
Pay	26 55	26	80 03	(213) 1443	Bansig
Toy	26 55	624	80 03	(18) 1638	Bansig
Frame	26 56	(1708) 139	80 04	(1381) 274	Transverse frame of
Shack	26 56	(1306) 541	80 04	(1248) 407	Wreck on Beach. Telephone pole
Black	26 56	(758) 1089	80 04	(1101) 554	Pole sig
Pump	26 56	(695) 1152	80 04	(650) 1005	Gasoline pump
nPile	26 56	(638) 1209	80 04	(1241) 414	Pile at end of wharf
Sig	26 56	(521) 1326	80 04	(229) 1426	Signal wooden boards
Draw	26 56	(332) 1514	80 05	(1460) 195	Top of small house
Less	26 56	(184) 1642	80 05	(1556) 69 48	on drawbridge. Top of radio tower $\Delta$ Determinant
Ban	26 56	(307) 1540	80 04	(267) 1388	Ban sig in tree
Tree	26 56	(528) 1319	80 04	(1620) 35 86/	794 Cloth on tree
Gab	26 56	(511) 1336	80 04	(1069) 586	E Gable of shack
Turn	26 57	(1832) 15	80 04	(885) 770	Ban sig
High square bldg on beach	27 00	(1196) 651	80 05	(888) 766	Center of roof
Beach Ho with Palm Leaves on Roof.	27 00	(661) 1186	80 05	(781) 873	Center of roof
Beach hut	27 01	(1777) 70	80 05	(570) 1084	Center of roof

✓ 9013  
2282

Above plane table signals not  
marked, but used in connection with  
photo-control surveys & hydrographic  
work. Permanently marked stations  
established by Traverse & Triangulation  
JES



Sheet #1.

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
Form No. 613

# PLANE-COORDINATE POSITION COMPUTATION, TRAVERSE

STATION	AZIMUTH AND ANGLE		BEARING	DISTANCE Meters	LATITUDE (north +, south -)		LONGITUDE (east -, west +)	
	°	'	°		Meters	Seconds	Meters	Seconds
A Hotel-Palm Hotel	171	02	28.8	2.051	2.051	28.8	80	02-04.006
B Hotel-A	19	11	14.9	9.933	9.933	04.2	154.7	(154.7)
	190	13	43.7	2.186	2.186	79.2	01-53.9	(157.5)
C A	180			9.453	9.453	01.8	154.3	(154.3)
	186	15	30.8	2.133	2.133	77.4	27.6	(161.8)
D A-B	196	29	14.5	2.775	2.775	53.9	01-54.3	(157.5)
	180			2.267	2.267	45.2	27.6	(161.8)
E B	153	50	52.2	9.225	9.225	00.9	154.3	(154.3)
	170	20	06.7	3.042	3.042	44.3	27.6	(161.8)
F C	180			3.042	3.042	44.3	27.6	(161.8)
	176	59	53.9	2.993	2.993	79.2	02-01.0	(157.5)
G D	167	20	00.6	3.042	3.042	44.3	27.6	(161.8)
	180			3.042	3.042	44.3	27.6	(161.8)
H E	174	41	22.6	9.489	9.489	44.3	27.6	(161.8)
	162	01	23.2	2.907	2.907	67.0	02-01.0	(157.5)
I F	180			1.485	1.485	48.0	27.6	(161.8)
	86	11	11.7	5.517	5.517	62.1	02-01.0	(157.5)
J G	68	12	34.9	1.087	1.087	30.5	27.6	(161.8)
	180			1.087	1.087	30.5	27.6	(161.8)
K E-Bank	190	26	34.7	3.686	3.686	58.3	02-01.0	(157.5)
	172	27	57.9	2.682	2.682	81.7	02-01.0	(157.5)
L F	180			2.682	2.682	81.7	02-01.0	(157.5)
	176	25	53.9	9.284	9.284	56.7	02-01.0	(157.5)
M F-G	168	53	51.8	2.911	2.911	87.1	02-01.0	(157.5)
	180			2.911	2.911	87.1	02-01.0	(157.5)
N G	176	50	08.2	3.122	3.122	17.1	02-01.0	(157.5)
	165	44	00.0	3.108	3.108	66.6	02-01.0	(157.5)
O G-H	180			2.432	2.432	05.5	02-01.0	(157.5)
	184	48	47.7	3.204	3.204	56.1	02-01.0	(157.5)
P H-I	170	32	47.7	3.204	3.204	56.1	02-01.0	(157.5)
	180			3.204	3.204	56.1	02-01.0	(157.5)
Q I	174	04	22.7	3.038	3.038	45.1	02-01.0	(157.5)
	164	37	10.4	2.877	2.877	61.2	02-01.0	(157.5)
Note:- To accompany topo. & hydro. sheets				Palm Beach to Jupiter Inlet, Fla.				
				Comp by W.J.C. copy by J.C.B. W.J.C. & Co.				



DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4457b

TOPOGRAPHIC TITLE SHEET  
**Photo Control Sheet**  
*(In pencil only)*

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

Field No. #A

REGISTER NO. **4457b**

State Florida

General locality East Coast Florida

Locality Palm Beach to Jupiter Inlet

Scale 1:20,000 Date of survey Jan. to March, 1929

Vessel NATOMA

Chief of Party Jack Senior

Surveyed by Walter J. Choven

Inked by - - -

Heights in feet above - - - to ground to tops of trees

Contour, Approximate contour, Form line interval - - feet

Instructions dated January 7th, 1929

Remarks: - - -