1217-2

Form 504
Rev. Dec. 1933

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

R. S. PATTON, DIRECTOR

DESCRIPTIVE REPORT Field 4 Sheet No. Reg. No. 5637

Topographic)

State New Jersey

LOCALITY

New Jorsey Coast Atlantic Coast

Absocon Inlet and Vicintiy

Atlantic City and Vicinity

193 5

CHIEF OF PARTY

E. H. Kirsch

00000143.TIF --- RESCAN ٠.

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.

Field No. 4

		Field No. 4 REGISTER NO. T-5637	T5637	
	_			r
		J. Coast Atlantic Coast		
Ç.		Photographs - 8-1-32 &	4-20-32	
	Scale 1:10,000	Date of EXEMPT		
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		T7 V.		
	Chief of party E.			
	• -	a sheet in descriptive rep		
		kson		
	Heights in feet abo	veto ground t	o tops of trees	

GENERAL INFORMATION

Statistics:

This sheet covers a land area of 24.5 square statute miles. There are 7.4 statute miles of coastline, 34.0 statute miles of shoreline as measured along streams and bays more than 200 meters wide, and 37.0 statute miles of streams less than 200 meters in width.

General Report:

This sheet covers all of Atlantic City, N. J., a small part of Ventnor City, Brigantine, and West Atlantic City. The remainder of the sheet consits of low wet marsh, known locally as "meadow", part of which is drained by many small shallow ditches dug by the Mosquito and Pest Control.

A wide sand beach runs along the entire outer coast and in most places it is protected from erosion by rock jettys extending from the high to the low water line. The southwest end of Brigantine Beach, forming the northeast shore of Absecon Inlet is an exception to the above as there are no jettys on this point. Consequently its shape is constantly changing.

Photographs:

This sheet was compiled from parts of five flights of single lens, 1:10,000 scale Aerial photos, taken by the Aero Service Corp. of Philadelphia.

Photos No. 66-55 4 to 9 run parallel to the coastline, approximately southwest, and were taken August 1, 1932.

Photos 66-11 91 to 94 run northward along Long. 74° 23'. No. 66-12 38 to 43 run southward along Long. 74° 25'. No. 66-12 44 to 48 run northward along Long. 74° 28'. All of these photos were taken April 20, 1932. The time at which they were taken in not available.

Practically all the photos are good scale and free of excessive tilt. The streets of the towns, the highways, docks, ect., showed clearly but the high and low water lines in some areas were very indefinite and even appeared to be entirely different on different photos.

CONTROL

Sources:

Triangulation by C. D. Meaney, 1931-32, B. H. Rigg, 1935, fourth order triangulation by R. C. Bolstad, 1935 (shown on compilation by black circles such as are used to show marked topographic stations). E.R.A. traverse by the State of New Jersey graphic control sheets "U" Reg. No. T 65026 "W" Reg. No. T 65036, and "Y" Reg. No. T 65038, B. H. Rigg, 1935.

U

Errors:

No errors in the control was found.

Discrepancies:

N.J. Geod. C. Survey.

The Hard. traverse was the only control used that was established by other organizations and no discrepancies were found.

COMPILATION

Me thod:

The usual radial line method as described in "Notes on the Compilation of Planimetric Line Maps from 5-lens Aerial Photographs" was used in compiling this sheet.

Adjustment of Plot:

No unusual adjustments of the plot were necessary.

Interpretation:

As stated in the paragraph under Photographs the parts of the photos that covered the towns and street systems were very clear

is a definite high water line along the front beach but it is very indefinite on the back beach. The extreme or storm high water line and low water line were rodded in. This point is subject to continual change while the southwest shoreline of the Inlet is protected by jettys and remains practically the same at all times.

Information from other Sources:

In all cases where it was determined that changes had been made in docks, piers, shore line of inlets, etc., since the photos were taken in 1932, the present shape and condition of these was obtained from Graphic Control sheets "U" Reg. No. 76503 A, and "Y" Reg. No. 76503 B, B. H. Rigg, 1935.

and "Y" Reg. No. 76503 B, B. H. Rigg, 1935.

The railroad system was put in by blue prints obtained from the Pennsylvania-Reading Seashore Lines. Information was also obtained from field inspection by Lt. R. C. Bolstad, 1934-1935, and by the compiler.

Conflicting Names:

All names in ink on the overlay sheet were taken from Chart No. 1217, U. S. Geological Survey Maps, were obtained from the U. S. Engineers. All names in pencil were obtained from field inspection notes by Lt. R. C. Bolstad. Some of these conflict with the names on the present chart. Refer to "Air Photo Field Inspection Report for East Coast of New Jersey, Metedeconk River to Townsend Inlet" (page 12), March 25, 1935 - Lt. R. C. Bolstad, Chief of Party, for his verification of these names. Mr. French, boatman for the N. J., Board of Commerce and Navigation and a native of this section, has also verified these names. Therefore it is believed that they are correct and should be charted as such.

COLPARISON WITH OTHER SURVEYS

Junctions:

Satisfactory junctions were made with sheet No. 2, Reg. No. 5635, on the Northeast, and with Sheet No. 3, Reg. No. 5636 on the Northwest. Sheet No. 5, Reg. No. 5638 on the southwest has not been completed at this time but a satisfactory junction between the radial plots has been made.

Landmarks:

A list of landmarks and recoverable topographic stations will be submitted with Graphic Control Sheets "U" Reg. No. 76502 B , "W" Reg. No. 6503 A , "Y" Reg. No. 76503 B. H. Rigg - 1935. & J.A.Bond 1936

Bridges:

The following data obtained from Field Inspection Report of Lt. R. C. Bolstad.

LOCALITY	LAT.	LONG.	TYPE VERTICA CLEARAI (Above I	VCE CLE	RIZONTAL EARANCE	
Absecon Inlet	39°23.1'	74° 25.4°	2 Leaf Bescule	11.6ft.	75 ft.	
Atlantic City	39 22.7	74 27.2	2 Leaf Bescule	10 ft.	50 ft.	
Atlantic City most northerly of 4 RR Bridges No. A	39 22.1	74 26.8	R.R. Swing- Not in use left open.	1.9ft.	Both Chan.	35.5ft.
Atlantic City No. B	39 21.9	74 26.8	R.R.Swing	1.75 ft.	Both Chan.	36. 5 ft.
Atlantic City	39 21.85	74 26.8	R.R. Swing	2.7 ft.	West Chan. East Chan.	
Atlantic City No. D - most southerly one	39 21.8	74 26.8	R.R. Swing	5.65 ft.	West Chan. East Chan.	
Atlantic City	39 21.7	74 26.8	Hwy Swing	4.32 ft.	Both Chan.	35.5 ft.
Inside Thoro. Albany Ave. Chelsea "F"	39 21.2	74 27.5	2 leaf Hwy. Bescule	10.5 ft.	50 ft. /	
Beach Thoro. Albany Ave. Chelsea	39 21.7	74 27.8	Fixed Trestle	5.2 ft.	11 ft.	
Great Thoro Hwy No. 40.	39 22.2	74 28.6	Fixed Trestle	5.2 ft.	11 ft.	

The letters of the four R.R. Swing Bridges refer to designating letters on the over lay sheet of this compilation. Since field inspection by Lt. Bolstad bridge "D" has been put back in use by the Atlantic City and Shore electric trolleys. Bridge "A" is no longer in use and is left open at all times.

L.J.E. 1935 Bridg Book.
RECOMMENDATIONS FOR FURTHER SURVEYS

This compilation is believed to have a probable error of not more than 3mm in position of well defined detail of importance for charting purposes, and of not more than .6 mm for other data.

To the best of my knowledge this sheet is complete in all detail of importance for charting, within the accuracy stated above and no additional surveys are necessary.

Assisted by,

E. H. Kirsch, Chief of Party.

Submitted by,

REVIEW OF AIR PHOTO COMPILATION T-5637 Scale 1:10,000

Data Record

Triangulation to 1935
Photographs to 1932
Planetable surveys to 1936
Hydrography to 1936
Field inspection to 1936

The detail of this compilation is that of the date of the photographs except for outer coast high water line and a few other corrections as determined by field inspection and 1936 planetable surveys. The outer coast mean high water line is from graphic control surveys T-6503A, May 1935 and T-6502B, June 1935.

Comparison with Contemporary Graphic Control Surveys

T-6502a (1935 and 1936), 1:10,000 T-6502b (1935 and 1936), 1:10,000 T-6503a (1935 and 1936), 1:10,000 T-6503b (1935 and 1936), 1:5,000

The triangulation stations N. J. Geod. S. 1828 and N. J. Geod. S. 1829 have been plotted in error on T-6503a by approximately 50.0 meters in latitude from the computations made by Lieut. Kirsch and filed in Geodesy. These two triangulation stations are shown on the compilation and are correct with Lieut. Kirsch's computations and also agree with the N. J. State coordinates. However, it is felt that these triangulation stations will not in any way reflect on the accuracy of the graphic control survey as it is apparent that neither station was used in the orientation of the graphic control sheet. All other detail on T-6503a in this vicinity checks with the compilation.

T-6503b has rodded in detail in the vicinities of lat. 39° 22.5', long. 74° 25.5' and lat. 39° 21.5', long. 74° 27' showing the Atlantic City Yacht Club race course and shoreline. Although it is in agreement with the compilation the planetable survey should be referred to for detail, as it has been shown on a scale of 1:5,000 whereas the compilation is to a scale of 1:10,000.

The date of location of stations and detail on the graphic control surveys is not entirely clear. These surveys were probably made in 1935 and additional work was accomplished in 1936. All of the outer coast high water line on T-6503a and T-6502b was done in May 1935 and June 1935.

Part of the aids to navigation were located in 1935 with additional locations and with relocations in 1936. Dates of location are not shown on the graphic control surveys are are given in chart letter No. 832 (1936).

Instructions are to be prepared to the effect that additional work on graphic control surveys made after the surveys are registered shall be shown in a different color.

All detail and information shown on the above graphic control surveys has been shown on the compilation except for temporary topographic signals and magnetic meridians.

Comparison with Contemporary Hydrographic Surveys

H-6144 (1936), 1:10,000 H-6196 (1936), 1:10,000

The shoreline shown on the above hydrographic surveys was taken from the compilation and agrees with the soundings.

	Comparison with	Former Topographic	Surveys
		T- 142 T- 952 T-1166 T-2054 T-2455	(1841), 1:20,000 (1864), 1:10,000 (1869), 1:20,000 (1891), 1:20,000 (1899), 1:20,000
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PLANE COORDINATE GRID SYSTEM

Positions of grid intersections used for fitting the grid to this compilation were computed by Division of Geodesy and the computation forms are included in this report.

Positions plotted by	RE Ask
Positions checked by	R.E. Ask
Grid inked on machine by	R.E. Ask
Intersections inked by	A. H. Schleiter
Points used for plotting grid:	
x 2,055,000 y 195,000	<u>x</u>
× 1,070,000 У 195,000	x y
x 2,070,000 y 215,000	x y
x 2 055 000 Y 205 000	<u>x</u>
Triangulation stations used for the X=2,071,182.87' y=194,178.7 1. Absect Light 1867 (ref.ste)	4'
2. Ritz 1931 Atlantic City, Claridge Hotel, dame 1932	6. N.J. Geod. 5. No. 1801 7. Hotela. 1931

	2,055,000.00	$\log S_g$	4.74036222
ζ	2,000,000.00	1	
' (=x-K)	+ 55,000.00		1086
′³/(6ρ₀²) ₉		1	4.22438891
· · · · · · · · · · · · · · · · · · ·	+ 54, 999,94	cor. arc to sine	
		$\log S_i$	4. 2243 8841
log x'	4.22108807	log A	8 5041 3439
og $1/(6\rho_o^2)_g$	4.5810 213	log sec φ	0, 11177464
og $x'^3/(6\rho_{\sigma}^2)_{\sigma}$	8.4021 694	log Δλ ₁	2,44529744
		cor. sine to arc	+ 84
og $S_m^{\cdot 2}$	8,44877782	log Δλ	2.84524828
og C	1.318348	Δλ	704.3228
og Δφ	4.767176		
	195 0000		

STATE N. J.		Station	
x	2,070,000.00	$\log S_{\sigma}$	4. 4450 9723
K	2,000,000,00	log (1200/3937)	9.48401583
x' (=x-K)	+ 70,000.00	log (1/R)	1086
$x'^3/(6\rho_o^2)_o$		$\log S_m$	4.3291 2392
S _s	+ 69, 999, 87	cor. arc to sine	
		$\log S_1$	4.3291 2311
3 log x'	4.53529412	log A	8.5091 3440
$\log 1/(6\rho_{\sigma}^2)_{\sigma}$	4.5410 213	log sec φ	0. 1/177402
$\log x'^3/(6\rho_o^2)_{\sigma}$	9,1163 154	$\log \Delta \lambda_1$	2 9 5 0 0 3 1 5 3
		cor. sine to arc	+ /35
$\log S_m^2$	4.65824784	log Δλ	295003288
log C	1.31437	Δλ	891.3184
log Δφ	9,976 2 2 2		
y	195,000.00	<u> </u>	9 7 "
ϕ' (by interpolation)_	34 22 07.44/4	λ (central mer.)	74 40 00.0000
$\Delta \phi$	0.94.52	Δλ	14 51.3184
φ	39 22 06 49 34	λ	74 25 08 68 16
	20.02 mm		20,78 mm

Explanation of form:

$$x'=x-K$$

$$S_q = x' - \frac{x'^3}{(6\rho_o^2)_g}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_g$$

 $R{=}\mathrm{scale}$ reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. arc to sine}$

 $\log \Delta \lambda {=} {\log \Delta \lambda_1} {+} {\rm cor.}$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta \lambda$

STATE $M. J.$		Station	
x	2,070,000.00	$\log S_{\mathfrak{g}}$	4. 84 50 9723
K	2,000,000,00	log (1200/3937)	9.48401583
x' (=x-K)	+ 70, 000,00	log (1/R)	1146
$x'^3/(6{\rho_o}^2)_{\mathfrak{g}}$		log S _m	4.32912392
S _s		cor, arc to sine	
		$\log S_1$	4.3291 2311
3 log x'	4.5352 94/2	log A	8.5091 33 01
$\log 1/(6\rho_{\sigma}^2)_{\sigma}$	4.5810 213	log sec φ	0.1/211585
$\log x'^3/(6\rho_o^2)_g$	9,1163 154	log Δλ ₁	2,95037197
		cor. sine to arc	+ 195
$\log S_m^2$	8.65824784	log Δλ	2.95037332
log C	1.319497	Δλ	792.0174
log Δφ	9.477745		
<i>y</i>	2/5,000.00		
ϕ' (by interpolation)	39 25 25.//75	λ (central mer.)	74 40 06.6000
Δφ		Δλ	14 52,0174
φ	39 25 24,1675		74 25 07.4826
	74.53 ^{mm}		19.10 mm

Explanation of form:

$$x'=x-K$$

$$S_g = x' - \frac{x'^3}{(6\rho_g^2)_g}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_q$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi \approx \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. arc to sine}$

 $\log \Delta \lambda {=} {\log \Delta \lambda_{\rm i}} {+} {\rm cor.}$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta \lambda$

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STATE N.J.		STATION	
x	2,055,000.00 2,000.000.00 55,000.00	log (1200/3937)	4. 74 03 (222 9.48401583
$x'^{3}/(6\rho_{o}^{2})_{g}$ S_{g}	· · · · · · · · · · · · · · · · · ·	log S_m	4.22438891
$\log 1/(6\rho_{\sigma}^2)_g$	14.22108807 4.5810213 6.8021094	log S ₁ log A log sec φ	4,22438841 8,50913370 6,11194548 2,44546759
$\log x'^3/(6 ho_o^2)_g$	8,44877782 1,319075	log Δλ ₁ cor. sine to arc log Δλ Δλ	+ 8× 2.84546843 700.5973
log C	9.767853	ΔΛ	750.7 7 7 5
$y_{\phi'}$ (by interpolation)_ $\Delta \phi_{\phi'}$		Δλ	74 40 "
φ	39 23 45,6934 140.91 mm	λ	74 51 40.5973

Explanation of form:

$$x'=x-K$$

$$S_g = x' - \frac{x'^3}{(6\rho_o^2)_g}$$

$$S_m = \frac{1}{R} \left(\frac{1200}{3937} \right) S_q$$

R=scale reduction factor

 ϕ' is interpolated from table of y

$$\Delta \phi = C S_m^2$$

$$\phi = \phi' - \Delta \phi$$

$$\Delta \lambda_1 = S_1 A \sec \phi$$

 $\log S_1 = \log S_m - \text{cor. arc to sine}$

 $\log \Delta \lambda = \log \Delta \lambda_1 + \text{cor.}$ are to sine

 $\lambda = \lambda$ (central mer.) $-\Delta\lambda$

REVIEW OF AIR PHOTO COMPILATION NO. 5637

Chief of Party: E. H. Kirsch

Compiled by: R.G.Hickson

Project: HT 205

Instructions dated: May 16, 1935

- The charts of this area have been examined and topographic information necessary to bring the charts up to date is shown on this compilation. (Par. 16a, b,c,d,e,g and 1; 26; and 64)
- change in position, or non-existence of wharfs, lights, and other topographic detail of particular importance to navigation which affect the chart, is discussed in the descriptive report. (Par. 26; and 66 g,n)
- 3. Ground surveys by plane table, sextant, 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. (Par. 65; and 66 d,e)
- A. Blue-prints and maps from other sources which were transmitted by the field party contain sufficient control for their application to the charts. (Par. 28)
- ✓5. Differences between this compilation and contemporary plane

 table and hydrographic surveys have been examined and rectified in the field before forwarding the compilations to the office and are discussed in the descriptive report.
 - 6. The control and adjustment of the photo plot are discussed in the descriptive report. Unusual or large adjustments are discussed in detail and limits of the area affected are stated. (Par. 12b; 44; and 66 c,h,i)
- 7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, and 44)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Refer also to the pamphlet "Notes on the Compilation of Planimetric Line Maps from Five Lens Air Photographs."

- 8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41)
- 9. Recoverable objects have been located and described on Form 524 in accordance with circular 30, 1933, circular letter of March 3, 1933, and circular 31, 1934. (Par. 29, 30, and 57)
- 10. A list of landmarks was furnished on Form 567 and instructions in the Director's letter of July 16, 1934, Landmarks for Charts, complied with. (Par. 16d, e; and 60)
- All bridges shown on the compilation are accompanied by a note stating whether fixed or draw, clearance, and width of draw if a draw bridge. Additional information of importance to navigation is given in the descriptive report. (Par. 16c)
- 12. Geographic names are shown on the overlay tracing. The accepted local usage of new names has been determined and they are listed in the report, together with a general statement as to source of information and a specific statement when advisable. Complete discussion of place names differing from the charts and from the U. S. G. S. Quadrangles is given in the descriptive report, together with reasons for recommendations made. (Par. 64, and 66k)
- 13. The geographic datum of the compilation is No. 1937 and the reference station is correctly noted.
- Junctions with adjoining compilations have been examined and are in agreement. (Par. 66j)
 - 15. The drafting is satisfactory and particular attention has been given the following:
 - 1. Standard symbols authorized by the Board of Surveys and Maps have been used throughout except as noted in the report.
 - 2. The degrees and minutes of Latitude and Longitude are correctly marked.

- 3. All station points are exactly marked by fine black dots.
- 4. Closely spaced lines are drawn sharp and clear for printing.
- 5. Topographic symbols for similar features are of uniform weight.
- 6. All drawing has been retouched where partially rubbed off.
- Buildings are drawn with clear straight lines and square corners where such is the case on the ground.

(Par. 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48)

- 16. No additional surveying is recommended at this time.
- 17. Remarks:

18. Examined and approved;

E. H. Busch Chief of Party

19. Remarks after review in office:

Reviewed in office by: LC Lands 139 gores

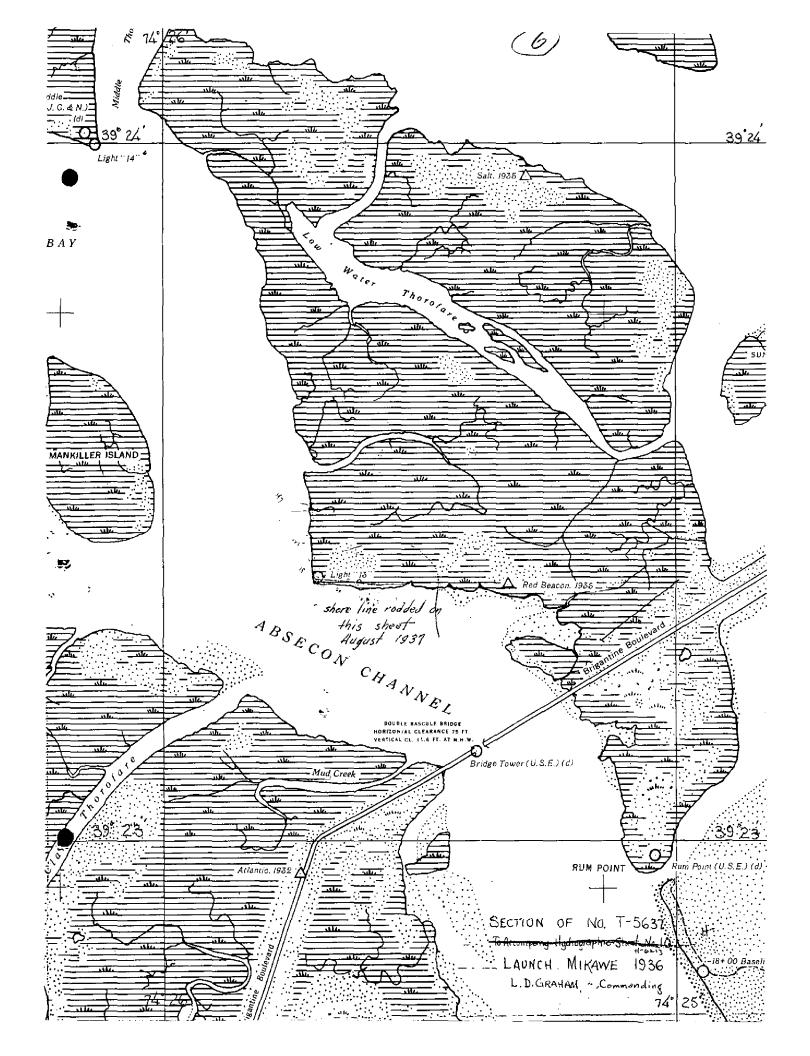
Examained and approved:

(hief, Section of Field Records

Chief, Division of Charts

Chief, Section of Field Work

Chief, Division of Hydrography and Topography.



Report I 5637 Supplemental additions in med by whitmany and checked by EN Frederick a. at lot 39° 22.5' long 74° 25.5' alchors and conections from the original 75637 at Time it was neveried. There are from graphic Control Survey T 6503 (opplied to beplumental 11/9/37) b. at lat. 39°22.5' long 74°27' from dese report H 6214, 1937 (applied to Supplemental 11/9/37) at lat 39° 23.4 Long 74° 25.5' from H 62/3-1936 submitted on section of 7 5638. (applied to Sufflemental _5/24/38) 139 Jones c. additions and conections from 5/24/38 correction wheel # 146. Jula Imp. notes marky of 75637

•	Descriptive Report for Supplemental T 5637
	1. Conections moted in wel at for 39"22"
	Long. 74° 27' from Description Report H6214 1937
•	other conections in not from graphic control
	other conections in not from graphic control Surveys and are attacks omitted from the original T 5637 when it was now inval
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