9815
9816

ORIGINAL

Diag. Cht. No. 77-5

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey: Topographic

Field No.: T-9815 Office No.: T-9816

LOCALITY

State: Virginia

General locality: Fairfax County

Locality: ANNANDALE

1951

CHIEF OF PARTY

Hubert A. Paton, Chief of Field Party
Div of Photogrammetry, Washington DC

LIBRARY & ARCHIVES

DATE Dec 21 1951

B-1870-1 (1)

9815 9816

DATA RECORD

T-9815 and T-9816

Project No. (II): Ph-70B(51) Quadrangle Name (IV): T-9815 = ANNANDALE NORTH
T-9816 = ANNANDALE SOUTH

Field Office (II): Fairfax, Virginia Chief of Party: George Varnadoe

Photogrammetric Office (III): Washington, D.C. Officer-In-Charge: Louis J. Reed, Chief, Stereoscopic Mapping Section

Instructions dated (II) (III): Copy filed in Division of Photogrammetry (IV)

Letter, 9 Mar 51, Ref No 711-lmh

Method of Compilation (III): Stereoscopic Plotting Instrument (Stereoplanigraph, Kelsh Plotter A, and Kelsh Plotter-B).

Manuscript Scale (III): 4800 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

Photograph	Stereoplanigraph	Kelsh	Pantograph	manuscript.
8000	4800	1600	4800	4800

Date received in Washington Office (IV): 20 Apr 51 Date reported to Nautical Chart Branch (IV): ~~20 Apr 51~~

Applied to Chart No. Date: Date registered (IV): 11-27-51

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): NA 1927 Vertical Datum (III): MSL

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted

Plane Coordinates (IV): State: Zone:

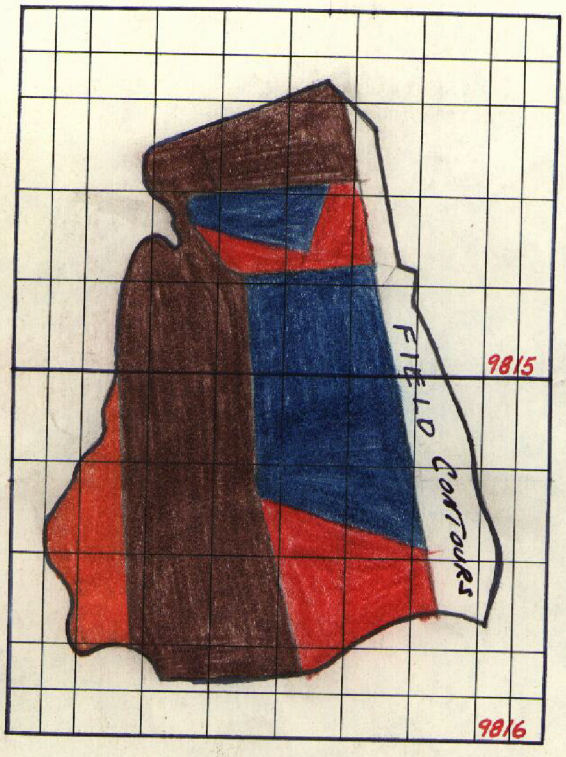
Y= X=

Polyconic Projection
and
2000 ft lambert grid, Virginia North

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

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

M-2618-12(4)



Areas contoured by various personnel
(Show name within area)
~~(II)~~ (III)

= Stereoplanigraph;
Operator = Michael G. Misulia

= Kelsh Plotter A;
Operator = Stanley W. Trow

= Kelsh Plotter A;
Operator = Bernard J. Colner

= Kelsh Plotter B;
Operator = Bernard J. Colner

DATA RECORD

Field Inspection by (II): ~~None~~ Partial - by various parties Date: Jan - Feb 1951

Planetable contouring by (II): ~~None~~ See sketch, page 2 Date:

Completion Surveys by (II): ~~None~~ Partial - by various parties Date: Jan - Feb 1951

Mean High Water Location (III) (State date and method of location):

None

Projection and Grids ruled by (IV): Ruling Machine Date: 12 Feb 51

Projection and Grids checked by (IV): Theodore L. Janson Date: 12 Feb 51

Control plotted by (III): John B. McDonald Date: 7 Mar 51

Control checked by (III): Michael G. Misulia Date: 7 Mar 51

Stereoplanigraph ~~[illegible]~~ by Michael G. Misulia Date: 12 Mar 51
Control extension by (III):

Stereoscopic Instrument compilation (III):

Planimetry	Michael G. Misulia	Date: 31 Mar 51
and	Stanley W. Trow	31 Mar 51
Contours	Bernard J. Colner	Date: 31 Mar 51

Manuscript delineated by (III): John B. McDonald Date: 18 Apr 51

Photogrammetric Office Review by (III): Louis J. Reed Date: 20 Apr 51

Elevations on Manuscript checked by (~~X~~) (III): Louis J. Reed Date: 20 Apr 51

M-2618-12(4)

Camera (kind or source) (III): USC&GS "O" Camera, Wide-Angle, f = 6 inches.
" "D" " , f = 12 inches (Second Phase)

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
296 thru 346	2 Feb 51		8000	
(2nd Phase) 246 thru 252	10 Mar 51		8000	

Tide (III)

none

Ratio of Ranges	Mean Range	Spring Range

Reference Station:
Subordinate Station:
Subordinate Station:

Washington Office Review by (IV): Charles Hanavich Date: 31 May 1951

Final Drafting by (IV): Date:

Compilation ~~Drafting~~ verified for reproduction by (IV): W Steinfeld Date: 6/5 51

Proof Edit by (IV): W Steinfeld Date: 6/15 51

Land Area (Sq. Statute Miles) (III): See below
Shoreline (More than 200 meters to opposite shore) (III): none
Shoreline (Less than 200 meters to opposite shore) (III): none
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): Recovered: Identified:
Number of BMs searched for (II): Recovered: Identified:
Number of Recoverable Photo Stations established (III): none
Number of Temporary Photo Hydro Stations established (III): none

Remarks:

Land Area

T-9815 = 2.30 sq mi

T-9816 = 4.25 sq mi

6 1/2 total

Summary to Accompany Descriptive Report
for T-9815 and T-9816

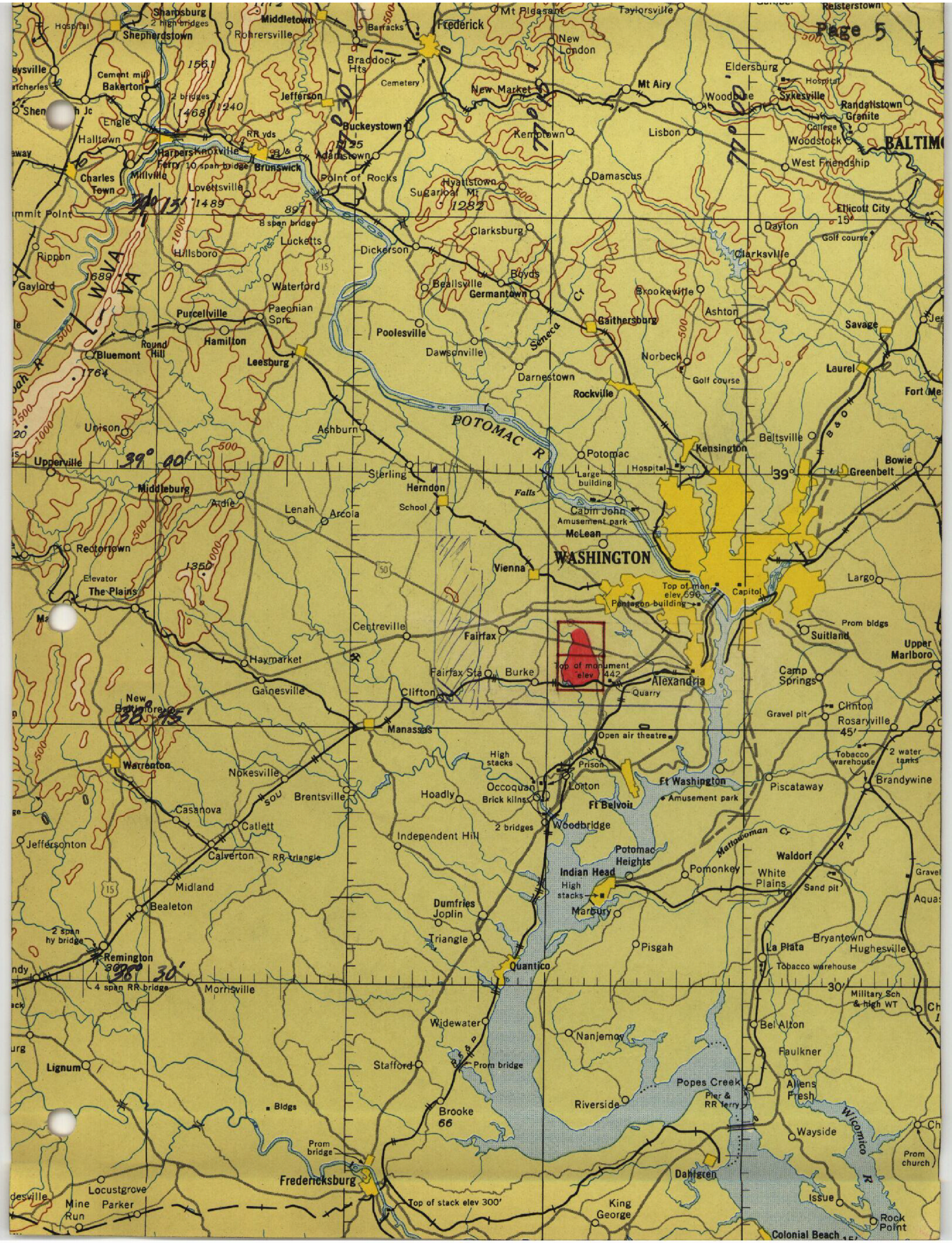
Topographic maps T-9815 and T-9816 comprise project Ph-70B(51), which is located in the vicinity of Annandale about 5 miles west of Alexandria, Virginia. The field operations consisted of the recovery and establishment of horizontal and vertical control. In addition to this, planetable and field inspection work was carried out in those areas which could not be accomplished satisfactorily by the stereoscopic mapping instruments. Only those portions of the map were field-edited on which the contour work was done by the stereoscopic mapping section.

This special work was initiated by and executed for the CAA within the limits of the area designated by them, and chiefly for the purpose of obtaining 5-foot contour intervals at a scale of 1:4800. These maps will not be published. Each sheet is 2' in latitude by 3½' in longitude.

No specific field project instructions were written; the organization of the work, including general supervision and other related phases, were directed by the Washington Office. No field inspection, field edit or other special reports were submitted from the field.

The registered copies under T-9815 and T-9816 will include one cloth-back copy of each map manuscript.

Charles Hanavich
Charles Hanavich


WASHINGTON
POTOMAC R
Frederick
Middletown
Sharpsburg
Shepherdstown
Harpers Ferry
Brunswick
Charles Town
Leesburg
Ashburn
Sterling
Herndon
Vienna
Fairfax
Centreville
Manassas
Warrenton
Fredericksburg
Alexandria
Arlington
Potomac
Rockville
Gaithersburg
Germantown
Clarksburg
Damascus
Mt Airy
New Market
Buckeystown
Point of Rocks
Hamilton
Purcellville
Middleburg
The Plains
Haymarket
Gainesville
Bealeton
Remington
Lignum
Stafford
Quantico
Dumfries
Triangle
Woodbridge
Occoquan
Lorton
Ft Belvoir
Ft Washington
Indian Head
Marbury
Pisgah
Widewater
Nanjemoy
Riverside
Popes Creek
Brooke
Falls
Cabin John
McLean
Kensington
Beltsville
Laurel
Greenbelt
Bowie
Suitland
Largo
Camp Springs
Clinton
Rosaryville
Piscataway
Brandywine
Waldorf
White Plains
Pomonkey
La Plata
Bryantown
Hughesville
Bel Alton
Faulkner
Allens Fresh
Wayside
Dahlgren
King George
Issue
Rock Point
Colonial Beach
Lisbon
Woodbine
Sykesville
Randallstown
Granite
Woodstock
West Friendship
Ellicott City
Dayton
Clarksville
Brookeville
Ashton
Savage
Norbeck
Darnestown
Poolesville
Dawsonville
Beallsville
Boyds
Seneca Cr
Lucketts
Waterford
Hillsboro
Unison
Upperville
Bluemont
Round Hill
Paeonian Spgs
Rippon
Gaylord
Halltown
Engle
Cement mill
Bakerton
Jefferson
Braddock Hts
Cemetery
Barracks
Rohrersville
Mt Pleasant
New London
Taylorsville
Reisterstown
Hyattstown
Sugarloaf Mt
1282
Kempton
Adamstown
Millville
Lovettsville
Jefferson
Haymarket
Fairfax Sta
Burke
Clifton
Centreville
Arcola
Lenah
Ardie
School
Large building
Hospital
Golf course
Capitol
Pentagon building
Top of monument elev 442
Top of man elev 696
Quarry
Open air theatre
Prison
High stacks
Brick kilns
Hoadly
Brentsville
Nokesville
Casanova
Catlett
Calverton
RR triangle
Jeffersonton
Midland
Independent Hill
2 bridges
Potomac Heights
Mattawoman Cr
Sand pit
Tobacco warehouse
Military Sch & high WT
Prom bldgs
Gravel pit
2 water tanks
Amusement park
Prom bridge
Prom church
Bldgs
Top of stack elev 300'
Locustgrove
Mine Run
Parker
Morrisville
4 span RR bridge
2 span hy bridge
Aquasco
Gravel
Seneca
Darnestown
Golf course
Fort Me
Annapolis Jc
Shenandoah Jc
Cemetery
Hospital
College
Elevator
Round Hill
Purcellville
Hamilton
Leesburg
Ashburn
Sterling
Herndon
Vienna
Fairfax
Centreville
Manassas
Warrenton
Fredericksburg
Alexandria
Arlington
Potomac
Rockville
Gaithersburg
Germantown
Clarksburg
Damascus
Mt Airy
New Market
Buckeystown
Point of Rocks
Middleburg
The Plains
Haymarket
Gainesville
Bealeton
Remington
Lignum
Stafford
Quantico
Dumfries
Triangle
Woodbridge
Occoquan
Lorton
Ft Belvoir
Ft Washington
Indian Head
Marbury
Pisgah
Widewater
Nanjemoy
Riverside
Popes Creek
Brooke
Falls
Cabin John
McLean
Kensington
Beltsville
Laurel
Greenbelt
Bowie
Suitland
Largo
Camp Springs
Clinton
Rosaryville
Piscataway
Brandywine
Waldorf
White Plains
Pomonkey
La Plata
Bryantown
Hughesville
Bel Alton
Faulkner
Allens Fresh
Wayside
Dahlgren
King George
Issue
Rock Point
Colonial Beach
Lisbon
Woodbine
Sykesville
Randallstown
Granite
Woodstock
West Friendship
Ellicott City
Dayton
Clarksville
Brookeville
Ashton
Savage
Norbeck
Darnestown
Poolesville
Dawsonville
Beallsville
Boyds
Seneca Cr
Lucketts
Waterford
Hillsboro
Unison
Upperville
Bluemont
Round Hill
Paeonian Spgs
Rippon
Gaylord
Halltown
Engle
Cement mill
Bakerton
Jefferson
Braddock Hts
Cemetery
Barracks
Rohrersville
Mt Pleasant
New London
Taylorsville
Reisterstown
Hyattstown
Sugarloaf Mt
1282
Kempton
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Millville
Lovettsville
Jefferson
Haymarket
Fairfax Sta
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Centreville
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Ardie
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Hospital
Golf course
Capitol
Pentagon building
Top of monument elev 442
Top of man elev 696
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Open air theatre
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High stacks
Brick kilns
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2 bridges
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Sand pit
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Military Sch & high WT
Prom bldgs
Gravel pit
2 water tanks
Amusement park
Prom bridge
Prom church
Bldgs
Top of stack elev 300'
Locustgrove
Mine Run
Parker
Morrisville
4 span RR bridge
2 span hy bridge
Aquasco
Gravel
Seneca
Darnestown
Golf course
Fort Me
Annapolis Jc
Shenandoah Jc
Cemetery
Hospital
College
Elevator

FIELD INSPECTION REPORT

No field inspection report is available at the time of this compilation; no field inspection has been accomplished.

The only field work in connection with this project prior to compilation has been the work necessary for the establishment and identification of control, both horizontal and vertical. Resulting data has been delivered to this office and used as a basis for this compilation.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Louis J. Reed

RADIAL PLOT REPORT

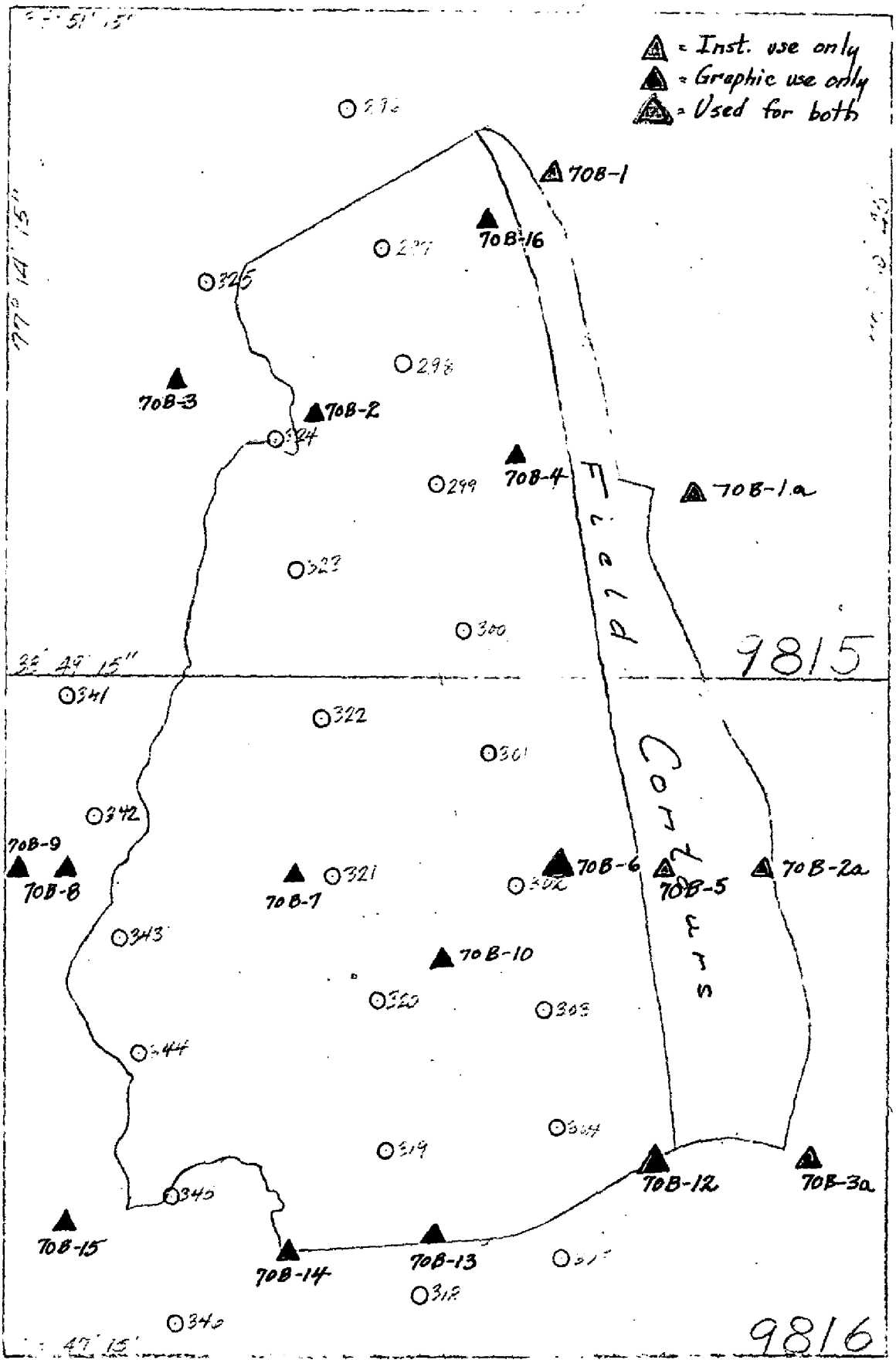
A radial plot was not made on this project and therefore a radial report is not called for.

However, serving the same purpose as a radial plot, control was extended into every stereoscopic model of the project by means of the stereoplanigraph. No particular difficulty was encountered in the extension.

For Phase II, see page 12a

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Louis J. Reed


= Inst. use only
= Graphic use only
= Used for both
70B-1
70B-16
70B-3
70B-2
70B-4
70B-1a
Field Contours
9815
70B-9
70B-8
70B-7
70B-6
70B-5
70B-2a
70B-10
70B-12
70B-3a
70B-15
70B-14
70B-13
9816

COMPILATION REPORT

31. Delineation:

Three stereoscopic plotting instruments were employed on this compilation, the Zeiss Stereoplanigraph and two Kelsh Plotters. An extension of horizontal control for the entire project was first accomplished by the stereoplanigraph, after which, all three instruments were used simultaneously in the compilation phase. Areas compiled by each are indexed in the data records, page 2.

See page 12a

Several areas of questionable contours were indicated by dashed lines where heavy coniferous timber did not permit good visibility of the ground. One stand of such timber was just too big and dense to permit drawing approximate contours. It is located near the reservoir on T-9816. Another is on T-9815 SE of Annandale.

A narrow strip along the east edge of this project was not covered by photography of suitable quality for use in stereoscopic plotting instruments. It is to be accomplished by ground methods and added to the manuscript of this report. (See page 12a)

No field inspection was made prior to this compilation and therefore the manuscripts represent only what the instrument operators have interpreted from the photography.

32. Control:

Horizontal control was selected in this office on the plotting photography and therefore it was adequate as to density and placement. Picture points to become control stations were actually selected in the field guided by the general office location, they were identified on the 1:4800 scale photographs in the field, and then they were tied to a traverse network in the field run for the specific purpose of procuring coordinates of these points. Pricking cards (form M-2226-12) were produced in the field, one for each of the ~~seventeen~~ eight stations established. Of this number, ~~four~~ five fell outside the working area of the stereoscopic models required to cover the compilation area and therefore served no useful purpose. The balance of thirteen stations were all held during aero-triangulation by the stereoplanigraph when a minimum of six horizontal control points were established for each working model. Actually, all thirteen stations did not fall inside the compiled area. ~~but since they had to be plotted on the manuscripts anyhow, they have been left there in proper symbol and name. Any other existing control in the area has not been plotted.~~

Vertical control was likewise generally selected in the office on the photographs but actually located and elevations determined in the field. The normal density was a minimum of four elevations for each model, one toward each of the four corners of the model. They were identified on a separate set of photographs in the field by marking them on the image surface and describing them on the back surface. Some questions arose during compilation as to exact locations and descriptions of these vertical control points, and in a few cases the elevations were also held in doubt when the first attempt to use them was made. However, all were eventually used after the initial misunderstanding was dissolved. In this light it is recommended that in future projects of this type more attention be given to the selection of better and more self-evident points on which to establish elevations, and finally, to describe the points in somewhat more detail on the back of the field identification Photographs.

33. Supplemental Data:

Compilation Photography: 2/2/51 @ 296 thru 346.

34. Contours and drainage:

Compilation photography was furnished at a contact scale of 1:8000. This is a much larger scale than normally used and therefore the details appeared very large and adequate. Actually the photography was very good in quality.

An additional flight to that listed in side-heading 33 above was accomplished on the same mission. It covered the eastern portion of the area, a narrow north-south strip just inside the area limits, but the usual endlap of 50% or more had not been complied with making it useless for aero-triangulation and eventual complete compilation purposes.

No particular difficulty was encountered during the aero-triangulation on the stereoplanigraph.

corrected during field ed.t. C.H.

A few areas of questionable contours are left for the attention of the field editor. They can be identified on the manuscript as broken penciled contours. It will be discovered that these areas are patches of evergreen trees, in most cases, thru which the operator was not able to be sure his floating mark was being held in contact with the ground. In addition, ~~one~~ Two blank areas will be noted ~~in the SE corner of T-9816~~ where field completion will be required.

35. Shoreline and Alongshore Features: Not applicable.

36. Offshore Details: Not applicable:

37. Landmarks and aids: Not applicable.

38. Control for future surveys: Not applicable.

39. Junctions:

The one common junction line between the two sheets of this survey is in agreement.

40. Horizontal and vertical accuracy: *See side heading 66 of Review Report and page 12A of this report.*

The accuracy of this topographic survey is considered to be standard except in the small areas of questionable contours described in side-heading 34 above, and in the N-S strip along the E edge where the contours were field drawn.

46. Comparison with existing maps:

The latest compilation of this area for comparison purposes is: USGS, ANNANDALE QUADRANGLE, edition of 1945, scale 1:31,680, 10 ft contour interval, original survey of 1913-15, revised in 1941-42. Only a general comparison has been possible because of the spread in scales.

47. Comparison with nautical charts: Not applicable.

48. Geographic name list: See separate form following.

49. Notes for the hydrographer: Not applicable.

50. Compilation office review: See separate forms following.

Submitted by:

Michael G. Misulia Stanley W. Trow

Michael G. Misulia, Stanley W. Trow
Cartographers- Photogrammetric

Approved and Forwarded by:

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

41. Graphic Compilation:

A N-S strip along the eastern limits of this project was added after the instrument compilation; see page 10½, side-heading 31. Contours were applied to photos in the field and transferred to the two manuscripts by graphic compilation following a hand-templet radial plot of the single strip of photos covering the area. The strip of photos was taken with a normal-angle camera (D) of 12 inches focal length and therefore not usable in the plotting instruments.

This radial plot was controlled by seven triangulation stations, two of which were also held to during aero-triangulation by the stereoplanigraph. Refer to the sketch on page 9. The photos were numbered 3-10-51 D 246 thru 252 and were ratioed from 8,000 contact scale to 4,800 map scale.

Sufficient points were selected and transferred to adjacent photos, including the field photos to which the contours had been applied, and then these points were cut in on the manuscripts. From here it was a matter of compiling the detail and contours thru the vinylite manuscripts and inking the results to conform with the balance of the work already inked.

Slight discrepancies were noted between the field and instrument contours where they joined and overlapped a little. Several spot elevations had been placed on the photos by the field man to guide him in shaping his contours, and those spot elevations that fell near the match area were given full weight in compiling the junction. The field contours absorbed most of the shifting of contours that was necessary to make the junction.

The field party contoured the two areas where the instruments could not complete the contours because of too dense foliage. It was done at about the same time the east-edge strip was worked and therfore was available for office compilation at about the same time. This work was applied to the manuscripts in a manner similar to that used for the east-edge strip, except that more detail points were required because the contours were applied to 6-inch photography where considerable tilt and scale difference existed.

Finally, before office completion of these two manuscripts, normal completion status, field inspection of planimetry and approximate contours was made available to this office and applied to the manuscripts. Therefore, previous statements in this report as to comparative times of field inspection and compilation are contradicted and brought up to date here to represent the status of the two maps as they leave this section.

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

Photogrammetry

MAP T- 9815 PROJECT NO. Ph-70B(51) SCALE OF MAP 1:4800 SCALE FACTOR .9999635

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	Va North Grid 6 DISTANCE FROM GRID IN FEET FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
70 B-1	Adjusta Field Comps	NA 1927		2,369,606.9						
				432,037.8						
70 B-2				2,365,463.2						
				427,447.3						
70 B-3				2,362,732.5						
				428,147.4						
70 B-4				2,368,957.0						
				426,882.5						
70 B-16				2,368,738.5						
				431,123.7						
70 B-1a				2,371,738.8						
				426,656.2						
TT 19T, USGS 1940	USGS Pub.	NA 1927	38 49 55.62							
			77 11 36.59							
TT 20T, USGS 1940	"	"	38 50 32.68							
			77 12 01.75							
TT 31T, USGS 1940	"	"	38 49 58.74							
			77 12 40.31							

Page 15

1 FT. = .3048006 METER

M-2388-1

COMPUTED BY: DATE CHECKED BY: DATE

Photogrammetry

MAP T- 9816 PROJECT NO. Ph-70B(51) SCALE OF MAP 1:4800 SCALE FACTOR .63500125

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	Virginia North Grid DISTANCE FROM GRID IN FEET FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
70 B-6	Adjustd Field Comps	NA 1927		2,370,331.6	419,541.5					
70 B-7				2,365,515.5	419,346.3					
70 B-8				2,360,846.0	419,346.0					
70 B-9				2,359,419.1	419,161.6					
70 B-10				2,367,752.9	417,834.3					
70 B-12				2,371,138.6	413,759.1					
70 B-13				2,367,883.8	412,786.8					
70 B-14				2,365,483.8	412,603.7					
70 B-15				2,361,081.0	413,004.7					
70 B-5				2,371,895.9	419,590.2					
70 B-2a				2,374,074.8	419,739.0					
70 B-3a				2,375,185.8	414,157.6					

1 FT. = .3048006 METER

M-2388-2

COMPUTED BY: DATE CHECKED BY: DATE

Photogrammetry

MAP T- 9816 PROJECT NO Ph-70B(51) SCALE OF MAP 1:4800 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE / LONGITUDE	Virginia Grid North DISTANCE FROM GRID IN FEET. FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
TT-1RCD, USGS 1949	USGS Pub	NA 1927		2,360,376 419,189						
PTS No 208,215 USGS, 1920	"	"	38 47 48.11 77 11 00.70							

Page 17

1 FT. = .3048006 METER

COMPUTED BY: DATE CHECKED BY: DATE

M-2388.1

GEOGRAPHIC NAMES

Survey No.

T-9815 and T-9816

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
T-9815										1
ACCOTINK CREEK										2
ANNANDALE										3
ANNANDALE ACRES										4
BACK LICK ROAD										5
GALLOWS ROAD										6
LEE JACKSON MEMORIAL HIGHWAY										7
PLEASANT RIDGE										8
RAVENSWORTH ROAD										9
										10
										11
T-9816										12
ACCOTINK CREEK										13
ANNANDALE ACRES										14
BACK LICK ROAD										15
BACK LICK RUN										16
BRADDOCK ROAD										17
FLAG RUN										18
RAVENSWORTH ROAD										19
RAVENSWORTH FARM										20
SPRINGFIELD RESERVOIR										21
SOUTHERN										22
										23
										24
										25
										26
										27

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9815

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) N 7. Photo hydro stations N 8. Bench marks N
9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points ✓

N = Non existent
✓ = Checked

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline N 13. Low-water line N 14. Rocks, shoals, etc. N 15. Bridges ✓ 16. Aids to navigation N 17. Landmarks N 18. Other alongshore physical features N 19. Other alongshore cultural features N

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover Not Compiled 22. Planetable contours ✓ 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features N

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads N 30. Other cultural features ✓

BOUNDARIES

31. Boundary lines N 32. Public land lines N

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay N 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓
40. _____ Reviewer _____ Supervisor, Review Section or Unit

Louis J. Reed, Chief
Stereoscopic Mapping Section
Photogrammetric Engineer

41. Remarks (see attached sheet)

FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT

42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.

_____ Compiler _____ Supervisor

43. Remarks:

M-2623-12

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9816

1. Projection and grids ✓ 2. Title ✓ 3. Manuscript numbers ✓ 4. Manuscript size ✓

CONTROL STATIONS

5. Horizontal control stations of third-order or higher accuracy ✓ 6. Recoverable horizontal stations of less than third-order accuracy (topographic stations) η 7. Photo hydro stations η 8. Bench marks η
9. Plotting of sextant fixes η 10. Photogrammetric plot report ✓ 11. Detail points ✓

✓ = checked
η = non-existant

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline η 13. Low-water line η 14. Rocks, shoals, etc. η 15. Bridges ✓ 16. Aids to navigation η 17. Landmarks η 18. Other alongshore physical features ✓ 19. Other alongshore cultural features η

PHYSICAL FEATURES

20. Water features ✓ 21. Natural ground cover Not Compiled 22. Planetable contours ✓ 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features ✓

CULTURAL FEATURES

27. Roads ✓ 28. Buildings ✓ 29. Railroads ✓ 30. Other cultural features ✓

BOUNDARIES

31. Boundary lines η 32. Public land lines η

MISCELLANEOUS

33. Geographic names ✓ 34. Junctions ✓ 35. Legibility of the manuscript ✓ 36. Discrepancy overlay η 37. Descriptive Report ✓ 38. Field inspection photographs ✓ 39. Forms ✓
40. _____
Reviewer

Louis J. Reed
Supervisor, Review Section or Unit

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_____ Compiler

_____ Supervisor

43. Remarks:

M-2623-12

Review Report T-9815 and T-9816
Topographic
31 May 1951

62. Comparison with Registered Topographic Surveys

No prior surveys of this area were made by the Bureau.

63. Comparison with Maps of other Agencies

USGS, ANNANDALE QUADRANGLE, edition of 1945, scale 1:31,680

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

Inapplicable since this is an inland survey.

66. Adequacy of Results and Future Surveys

Field edit corrections were applied during final review. Vertical accuracy tests were run on both maps and found to comply with the standard accuracy requirements. The inconsistency in expression to be found between the office and field contours is due to the irregularities (minor bends and turns around bushes, clumps, etc.) introduced into the contours by the stereoscopic plotting section and which are not expressive of the terrain to be found in the area. No attempt was made to smooth out all these irregularities - except for the more glaring ones - as this would have entailed considerable stereoscopic re-checking for the correct expression and re-drafting. On the whole the irregularities in the contours do not indicate any excessive horizontal displacements wherein the contours would fail to comply with the standards of accuracy required. A similar fault (office contouring of isolated bushes, etc.) was the indication of numerous small isolated pseudo-contours. These were removed.

These maps comply with the National Standards of Accuracy.

Reviewed by:

Charles Hammick

Approved by:

H.R.B. 12/5/51 J.V. Griffith
Chief, Review Section

O.S. Reading
~~Chief, Div. Photogrammetry~~