9472 9473 9474

9472 9473 9474

Diag. Cht. No. 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-28 (47) *Office No.* T-9472 T-9473 T-9474

LOCALITY

State Alaska

General locality Kotzebue Sound

Locality Kobuk River Delta

1948-51

CHIEF OF PARTY

A.N.Stewart, Chief of Field Party

H.A.Paton, Baltimore Photo. Office

~~L.J.Reed, Chief Stereo-map Sec. D.C.~~

LIBRARY & ARCHIVES

DATE July 12, 1957

B-1870-1 (1)

DATA RECORD

T-9472, 73, 74

Project No. (II): Ph-28(47)

Quadrangle Name (IV): T-9472 = TOPO STATION FAWN
T-9473 ==KOBUK RIVER DELTA; CENTRAL
T-9474 = UPPER NAZURUK CHANNEL

Field Office (II): Portland, Oregon

Chief of Party: A.Newton Stewart

Photogrammetric Office (III): Baltimore, Md
Washington, D.C.

Officer-in-Charge: Radial Plot Hubert A.Paton, Chief
Compilation Louis J.Reed, Chief, Stereo-map Section

Instructions dated (II) (III):

(II) = 21 Apr 48
(III) = 23 Oct 50

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading Plotter "B"

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1:1

Date received in Washington Office (IV): DEC 3 1952

Date reported to Nautical Chart Branch (IV): DEC 8 1952

Applied to Chart No.

Date:

Date registered (IV): 30 April 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 (Unadjusted)

Vertical Datum (III):

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~~
Unadjusted

Plane Coordinates (IV):

State:

Zone:

Y=

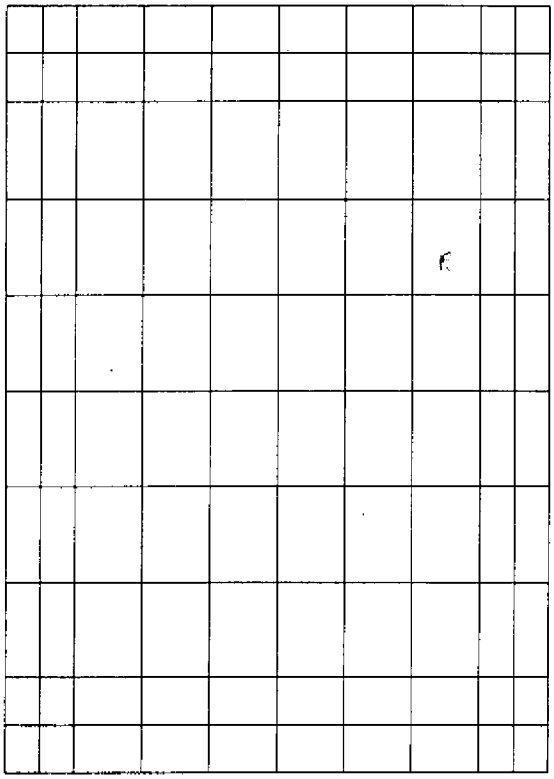
X=

MILITARY GRID = UTM, Zone 4, 2500 meter interval.

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)

100% compiled on the Reading Plotter "B",
by the team of:

Louis Levin
and
Arthur B. Zimmerli

DATA RECORD

Field Inspection by (II): A.Newton Stewart Date: 1948

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

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

MHWL on these three quads might be dated 1948 since they were compiled using 1948 field-located shoreline as a guide. However, it was compiled using 1951 photos and therefore could be considered as a 1951 MHWL, and should be for all practical purposes.

Projection and Grids ruled by (IV): Date: 3 Oct 51
Jack Allen on the Reading Ruling Machine

Projection and Grids checked by (IV): Howard D.Wolfe Date: 4 Oct 51

Control plotted by (III): Ruth Hartley Date: 11 Dec 51

Control checked by (III): Frank J.Tarcza Date: 14 Feb 52

Radial Plot ~~or Stereoscopic~~ Grover B.Torbert Date: 25 Apr 52

Control extension by (III):
Verified by Frank J.Tarcza 25 Apr 52

Stereoscopic Instrument ~~compilation~~ delineation (III): Planimetry and Contours Louis Levin and Arthur B.Zimmerli Date: 10 Jun 52

Manuscript delineated by (III): Robert L.Sugden Date: 3 Oct 52

Photogrammetric Office Review by (III): Louis J. Reed Date: 3 Dec 52

Elevations on Manuscript checked by (II) (III): Louis J.Reed Date: 3 Dec 52

Camera (kind or source) (III):

USC & GS 9-lens camera, model "B", f = 8.25 inches

PHOTOGRAPHS (III)

Instrument Number	Date	Time	Scale	Stage of Tide
33844-47		1301 thru 1304		
33856-59		1321 " 1325		
33884-88		1400 " 1406		appreciable no tide
	27 Jun 51		1:20,000	
33900-03		1422 " 1426		
33976-80		1610 " 1614		
33987-90		1628 " 1630		

Note: Mr. Disney of Tides and Currents states (7 May 51) that for all practical purposes no tide exists in this area. L.J.R.

Tide (III): diurnal

Ratio of Ranges	Mean Range	Spring Range
		.6

Reference Station: ~~Icy Cape~~

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV): Bernard J. Colner Date: 11-4-53

Final Drafting by (IV): P. Lach T-9472 Date: 10-31-55
F. Johnson T-9473 Date: 11-14-55
P. Lach T-9474 Date: 12-1-55

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): See remarks below

Shoreline (More than 200 meters to opposite shore) (III): See remarks below

Shoreline (Less than 200 meters to opposite shore) (III): See remarks below

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): Recovered: Identified: One (on T-9474)

Number of BMs searched for (II): None Recovered: Identified:

Number of Recoverable Photo Stations established (III): FAWN & FACE on T-9472; POLE On T-9474

Number of Temporary Photo Hydro Stations established (III): None

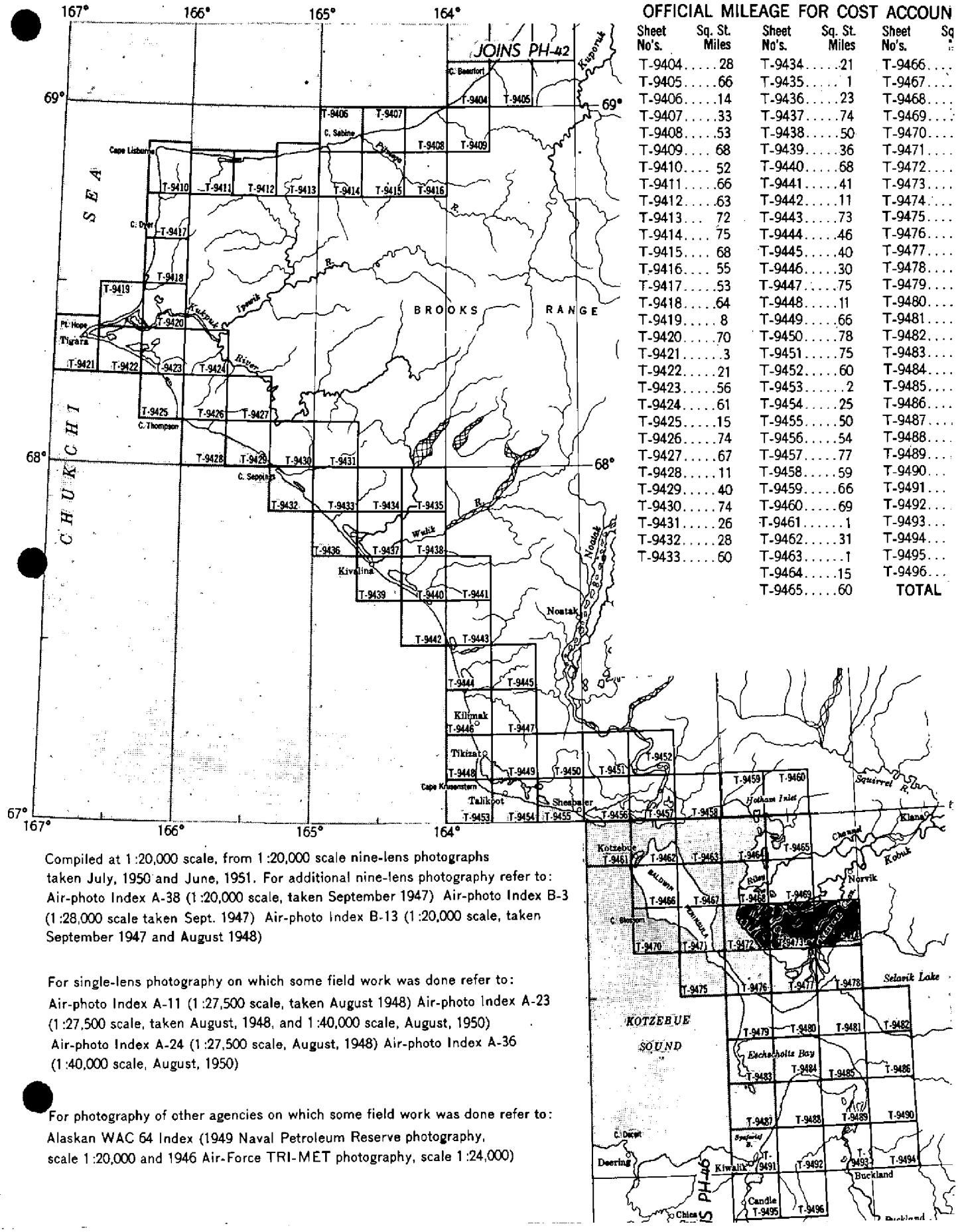
Remarks:

	Land Area	MHWL, over 200m	MHWL, under 200m
T-9472 =	35 sq mi	13 miles	44 miles
T-9473 =	80 sq mi	None	125 miles
T-9474 =	76 sq mi	5 miles	63 miles

M-2618-12(4)

TOPOGRAPHIC MAPPING PROJECT PH-28

ALASKA, Chukchi Sea, Kiwalik to C. Beaufort



OFFICIAL MILEAGE FOR COST ACCOUN

Sheet No's.	Sq. St. Miles	Sheet No's.	Sq. St. Miles	Sheet No's.	Sq
T-9404	28	T-9434	21	T-9466	
T-9405	66	T-9435	1	T-9467	
T-9406	14	T-9436	23	T-9468	
T-9407	33	T-9437	74	T-9469	
T-9408	53	T-9438	50	T-9470	
T-9409	68	T-9439	36	T-9471	
T-9410	52	T-9440	68	T-9472	
T-9411	66	T-9441	41	T-9473	
T-9412	63	T-9442	11	T-9474	
T-9413	72	T-9443	73	T-9475	
T-9414	75	T-9444	46	T-9476	
T-9415	68	T-9445	40	T-9477	
T-9416	55	T-9446	30	T-9478	
T-9417	53	T-9447	75	T-9479	
T-9418	64	T-9448	11	T-9480	
T-9419	8	T-9449	66	T-9481	
T-9420	70	T-9450	78	T-9482	
T-9421	3	T-9451	75	T-9483	
T-9422	21	T-9452	60	T-9484	
T-9423	56	T-9453	2	T-9485	
T-9424	61	T-9454	25	T-9486	
T-9425	15	T-9455	50	T-9487	
T-9426	74	T-9456	54	T-9488	
T-9427	67	T-9457	77	T-9489	
T-9428	11	T-9458	59	T-9490	
T-9429	40	T-9459	66	T-9491	
T-9430	74	T-9460	69	T-9492	
T-9431	26	T-9461	1	T-9493	
T-9432	28	T-9462	31	T-9494	
T-9433	60	T-9463	1	T-9495	
		T-9464	15	T-9496	
		T-9465	60	TOTAL	

Compiled at 1:20,000 scale, from 1:20,000 scale nine-lens photographs taken July, 1950 and June, 1951. For additional nine-lens photography refer to: Air-photo Index A-38 (1:20,000 scale, taken September 1947) Air-photo Index B-3 (1:28,000 scale taken Sept. 1947) Air-photo Index B-13 (1:20,000 scale, taken September 1947 and August 1948)

For single-lens photography on which some field work was done refer to: Air-photo Index A-11 (1:27,500 scale, taken August 1948) Air-photo Index A-23 (1:27,500 scale, taken August, 1948, and 1:40,000 scale, August, 1950) Air-photo Index A-24 (1:27,500 scale, August, 1948) Air-photo Index A-36 (1:40,000 scale, August, 1950)

For photography of other agencies on which some field work was done refer to: Alaskan WAC 64 Index (1949 Naval Petroleum Reserve photography, scale 1:20,000 and 1946 Air-Force TRI-MET photography, scale 1:24,000)

Summary to Accompany T-9472 through T-9474

Ph-28(47) covers the eastern shore of the Chukchi Sea in Alaska and runs from Candle on the Kiwalik River on the south to Cape Beaufort to the north.

There are ninety-four topographic quadrangles (T-9402 to T-9434 and T-9436 to T-9496) in this project.

T-9472 through T-9474 are topographic surveys which border on the southeasterly portion of Hotham Inlet and on the northwestern portion of Selawik Lake.

Each map manuscript consists of one sheet, 7½ minutes in latitude and 20 minutes in longitude, at a scale of 1:20,000, with a contour interval of 50 feet. A ~~cloth-backed lithographic~~ Cronaflex print of each map at the compilation scale will be registered with the descriptive report in the Bureau of Archives.

FIELD INSPECTION REPORT

(A-F)

2-20:

See separate report entitled:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

KOTZEBUE SOUND, ALASKA

Project Ph-28(47) July to Sept 1948

A. Newton Stewart, Chief of Party

RADIAL PLOT REPORT

21-30:

See Descriptive Report for quads T-9468 and T-9469, a combined report. The Radial Plot/Report therein covers the three quads of this report also, and is not repeated here.

COMPILATION REPORT

31. Delineation:

The entire area of the three quads of this report has been delineated on the Reading Plotter, model "B", in a single operation.

32. Control:

According to side-heading 23 of the Radial Plot Report, there was adequate horizontal control for a satisfactory plot. The vertical control was also adequate with the majority of the land area being very close to sea-level datum in the extensive Kobuk River delta. In addition, three V-stations were established by the field party and elevations computed for them after the plot had fixed horizontal distances to them; V-1111 and V-1113 on T-9473, V-1107 on T-9474, and none on T-9472.

33. Supplemental Data:

a. Field Inspection Photos:

20853, 20854, 20855, 20856, 20690, 20691, 20692, 20693.

b. Elevation computations:

"TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS IN THE AREA OF MAP MANUSCRIPTS T-9462, T-9463, T-9466, T-9467, T-9470, T-9471, and T-9475."

34. Contours and Drainage:

The instrument photographs were of very good photographic quality and no areas of questionable contours are left.

35. Shoreline and Alongshore Details:

Shoreline inspection was adequate considering the marshy and unstable nature of the shoreline in this river delta area. For this same reason no distinction has been made on the manuscripts between apparent and definite shoreline. No low-water or shoal lines were delineated, field or office.

36 Offshore Details: Not applicable.

37. Landmarks and Aids: None recommended - none exist.

38. Control for Future Surveys:

Three Topo stations and no Hydro stations were selected and photo-identified in the field, and have been located by the radial plot; FAWN, 1948, FACE, 1948 on T-9472, and POLE, 1948 on T-9474. See sub-heading 49.

39. Junctions:

All junctions are in agreement since these sheets have been compiled simultaneously with all adjoining quads as shown on page 5, the project layout diagram.

40. Horizontal and Vertical Accuracy:

The three maps of this report are at a scale of 1:20,000 and they meet the requirements specified by map standards for maps of that scale. These maps are compiled to meet the requirements for 50ft contour interval, but because of the lack of relief in the area the 25ft supplemental has been delineated also. It is believed these 25ft contours are accurate to half 25ft, but this should not detract from the fact that these maps are considered to be 50ft contour maps.

46. Comparison with Existing Maps:

No maps of comparable scale exist; the following map does cover the same area:

"SELAWIK, Alaska, Alaska Reconnaissance Topographic Series, Second Judicial Division, USGS, 1:250,000, 1951 edition."

47. Comparison with Nautical Charts:

No chart of comparable scale exists; the following chart does cover the same area:

"ARCTIC COAST, Alaska, No 9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 Nov 1950."

48. Geographic Name List: See next numbered page, page 11.

49. Notes for the Hydrographer: See unnumbered page following.

50. Compilation Office Review: See page 12 following.

Submitted by

Orvis N Dalbey

Orvis N.Dalbey,
Cartographer-Photogrammetric

Approved by

Louis J Reed

49. Notes for The Hydrographer:

T-9472

a. Topo Stations:

FAWN, 1948 - identified on photo 20854 - see 524 card
FACE,1948 - identified on photo 20856 - see 524 card

b. Hydro Stations: None

T-9473

None

T-9474

a. Topo Stations:

POLE, 1948 - identified on photo 20693 - see 524 card

b. Hydro Stations: None

GEOGRAPHIC NAMES

Survey No.

T-9472, 73, 74

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-9472										1
HOTHAM INLET										2
										3
										4
										5
										6
										7
										8
T-9473										9
										10
										11
										12
										13
										14
										15
										16
T-9474										17
NAZURUK CHANNEL										18
SELAWIK LAKE										19
										20
Kotzebue Sound } for titles										21
Kobuk River Delta } for titles										22
										23
										24
										25
										26
										27

Names approved
11-4-53.
L. Heck

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9472, 3, 4

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) ✓ 7. Photo hydro stations N 8. Bench marks N
9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points N

✓ = checked
N = non-applicant

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline ✓ 13. Low-water line N 14. Rocks, shoals, etc. N 15. Bridges N 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 ✓ 22. Planetable contours N 23. Stereoscopic instrument contours ✓ 24. Contours in general ✓ 25. Spot elevations ✓ 26. Other physical features N

CULTURAL FEATURES

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

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. N

(Reviewer)

Louis J. Reed
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.

None

Compiler

Supervisor

43. Remarks:

M-2623-12