9410 THRU 9416

9410 THRU 9416

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 (470) Office No.: T-9410 thru T-9416

LOCALITY

State: Alaska

General locality: Chukchi Sea

Locality: Cape Lisburne

194 51-52

CHIEF OF PARTY

Paul Taylor, Chief of Field Party

J. C. Sammons, Chief B'more Photo. Off.

~~E. W. Swanson, Div. of Photo., Wash., D. C.~~

LIBRARY & ARCHIVES

DATE: August 11, 1957

8-1870-1 (1)

CONFIDENTIAL

DATA RECORD

T - 9410

Project No. (II): Ph-28(47) Quadrangle Name (IV): See manuscripts

Field Office (II): Portland, Oregon Chief of Party: Paul Taylor

Photogrammetric Office (III): Washington, D.C. Officer-in-Charge: L.W. Swanson

Instructions dated (II) (III): Supplement 3 dated 4/12/51 Copy filed in Division of Photogrammetry (IV) Office Files

Method of Compilation (III): Nine-Lens Reading Plotters

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): AUG 10 1954 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 16 May 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~~

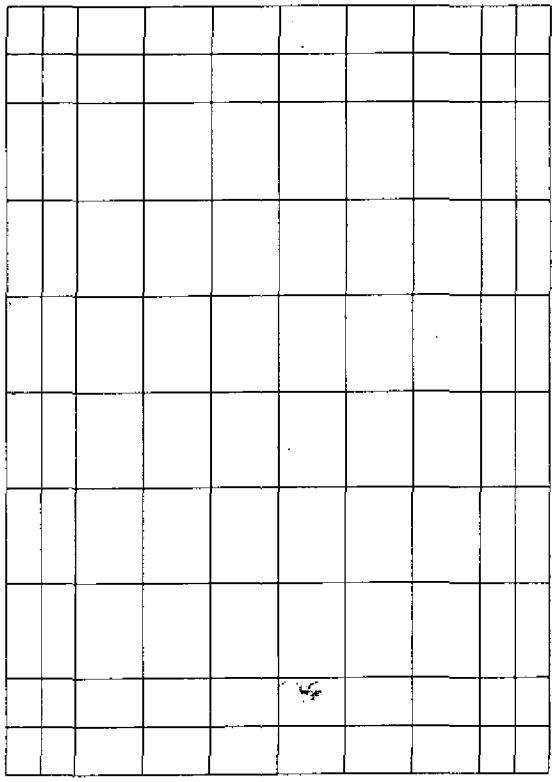
Plane Coordinates (IV): State: Zone:

Y= X=

Universal Transverse Mercator Grid, Zone 3, with 2500m intervals

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.



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

T-9410 T-9411	by:	Clarence E. Misfeldt on the Reading Plotter, model "A"
T-9412 thru T-9416	by:	Louis Levin on the Reading Plotter, model "B"

DATA RECORD

Field Inspection by (II): G. B. Torbert and C.H.Bishop Date: July 1951

Planetable contouring by (II): None Date: ——

Completion Surveys by (II): None Date: ——

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

The MHWL is dated 1951 since it was delineated on the plotting instruments guided by 1951 field identification of the shoreline on nine-lens field photographs.

Projection and Grids ruled by (IV): Austin Riley on the Reading Ruling Machine Date: 12 Oct 52

Projection and Grids checked by (IV): Howard D. Wolfe Date: 13 Oct 52

Control plotted by (III): Wayne L. Lineweaver Date: 2 Jun 53

Control checked by (III): Albert Queen Date: 8 Jun 53

Radial Plot ~~or Stereoscopic~~ Elmer L. Williams Date: 6 Nov 53

Control extension by (III):

verified by: Frank J. Tarcza 1 Dec 53

Stereoscopic Instrument ~~Compilation~~ (III): delineation Planimetry Clarence E. Misfeldt and Contours Louis Levin Date: 12 Mar 54

Manuscript delineated by (III): John B. McDonald Date: 5 Aug 54

Photogrammetric Office Review by (III): Louis J. Reed Date: 10 Aug 54

Elevations on Manuscript checked by (III) (III): Louis J. Reed Date: 10 Aug 54

M-2618-12(4)

Camera (kind or source) (III): USC&GS 9-lens, model "B", f = 8.25 inches

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
37936 thru 44	17 July 52		1:20,000	None
37949 thru 54	"		"	"
37957 thru 63	"		"	"
37996 thru 97	"		"	"
38037 thru 48	"		"	"

Tide (III)

Ratio of Ranges	Mean Range	~~Spring~~ diurnal Range
		.6'

Reference Station: Icy Cape

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV): P. Lach T-9410, E. Johnson T-9411, John H. Frazier T-9415, P. Lach T-9416 — Date: 6-22-56, 7-2-56, 6-13-56

Final Drafting by (IV): John H. Frazier T-9412, P. Lach T-9413, E. Johnson T-9414 — Date: 6-12-56, 6-27-56, 6-15-56, 6-22-56

Drafting verified for reproduction by (IV): W.O. Hallum — Date: 8-16-56

Proof Edit by (IV): — Date:

Land Area (Sq. Statute Miles) (III): See table in Remarks below

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

Shoreline (Less than 200 meters to opposite shore) (III): None

Control Leveling - Miles (II): None

Number of Triangulation Stations searched for (II): Recovered: Identified: 19

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

Number of Recoverable Photo Stations established (III): 9

Number of Temporary Photo Hydro Stations established (III): 3

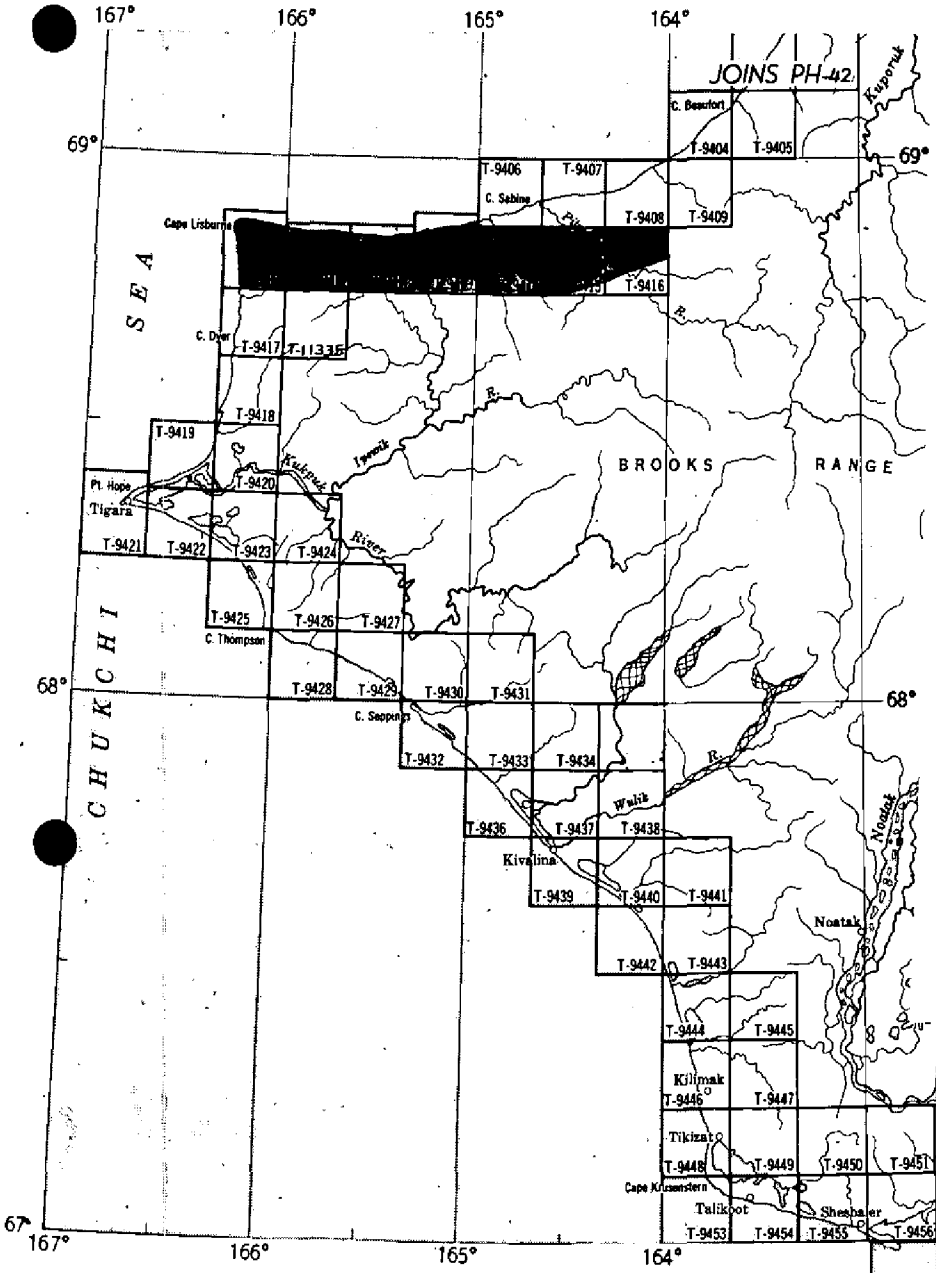
~~Number of Vertical Control Points established~~

Remarks:

Quadrangle	Area	Shore
T-9410	44 sq mi	15 miles
T-9411	65 "	8 "
T-9412	61 "	8 "
T-9413	65 "	8 "
T-9414	72 "	0 "
T-9415	66 "	0 "
T-9416	43 "	0 "

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-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	T-11335	

TOTAL 4

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 Descriptive
Report T-9410 through T-9416

Topographic maps T-9410 through T-9416 in project Ph-28 cover the coastal area of the Chukchi Sea, from Cape Lisburne, eastward to longitude 164° 00'. No shoreline is included on T-9414, T-9415 and T-9416. They are inland maps paralleling the coastline. These maps were compiled on the 9-lens Reading Plotter. Field operations preceding compilation included field inspection, establishment of horizontal control and the determination of elevations required to control a stereo-instrument project vertically. Compilation was at a scale of 1:20,000. Contours were drawn at a 50-foot interval with 25-foot interval supplemental contours. The maps were not field edited.

A cronar ~~A cloth backed lithographic~~ print of each map at manuscript scale and the combined descriptive report will be registered and permanently filed in the Bureau Archives.

FIELD INSPECTION REPORT

2-20: See separate report with title as follows:

SEASON'S REPORT

and

FIELD INSPECTION REPORT

Marryatt Inlet to Cape Beufort, Alaska

Project Ph-28(47)

Season 1951

Paul Taylor Chief of Party

RADIAL PLOT REPORT
(Consolidation)

The area of the seven quadrangles of this report is covered by portions of three separate radial plots that are reported as follows:

T-9410	see Descriptive Report for T-9417 & T-9418
T-9411	"
T-9412	See this report, next page.
T-9413	"
T-9414	"
T-9415	"
T-9416	See Descriptive Report for T-9404 thru T-9409

PHOTOGRAMMETRIC PLOT REPORT
Project Ph-28
Surveys T-9406 & T-9407; T-9412 to T-9415, incl.

21. AREA COVERED

This radial plot covers the areas of Surveys T-9406 and T-9407; T-9412 thru T-9415, incl. These are topographic surveys situated along the shore of the Arctic Ocean from Cape Lisburne to Cape Sabine.

22. METHOD - RADIAL PLOT

Vinylite sheets with polyconic projections in black and Universal Transverse Mercator grids in red; at a scale of 1:20,000, were furnished by the Washington office. No base sheets were needed.

All control stations and substitute stations were plotted using beam compass and meter bar.

A sketch showing the layout of these surveys and the distribution of photograph centers and control is attached to this report.

Photographs:

Nine-lens metal mounted photographs at a scale of 1:20,000 were used in this plot. The thirty (30) photographs used in this radial plot are numbered as follows:

37942 thru 37944 incl.
37949
37957 thru 37968 incl.
37972
37997
38037 thru 38048 incl.

The symbols used on the photographs were given in special instructions for all radial plots using nine-lens photographs which will be used later with a Reading Plotter.

Templets:

Vinylite templets were made from all photographs using a master templet furnished by the Washington office to adjust for errors due to chamber displacements. Radial lines were scratched on the templets with a needle point and the scratches filled in with china marking pencil. Red pencil was used for all shoreline (rectification) pass points and black pencil was used for all other radial lines.

Closure and Adjustment to Control:

The radial plot was constructed directly on the map manuscripts. A preliminary plot was laid to determine which photographs were badly tilted. Photographs 37967 and 38039 were by far the most tilted in the plot. Photograph 38039 was especially bad, and wad laid on top of the plot so that it had no very serious effect on the plot.

22. METHOD - RADIAL PLOT (cont'd)

Closure and Adjustment to Control (Cont'd)

The final plot was started at the western edge of Survey T-9412 where the positions of pass points and photograph centers had been established in the previous radial plot. The plot was extended eastward holding all control points.

Transfer of Points:

The positions of all centers, pass points, and control stations were pricked on the top templets and circled with 3 mm. blue circles. These positions were established on the remaining templets and on the map manuscripts by drilling down through them with a 0.01 inch jewelers drill. All points were circled on each templet as it was removed and on the manuscript.

23. ADEQUACY OF CONTROL

There is adequate control throughout this radial plot.

In interior areas, especially in Surveys T-9414 and T-9415, the positions established are weak but are believed to be within the required accuracy.

All the control stations were held except as follows:

1. A radial plotted position was established for Sub Point THIRTEEN, 1951. The station, THIRTEEN, 1951 was held in the plot.
2. Station SINGLE, 1951 and WOMEN, 1951 were held slightly off in the plot but in both cases the sub. pts. held.
3. Sub Pt. KIGIK was held off slightly but the station held.
4. Sub Pt. EESOOK, 1951, mentioned in a previous radial plot report as not held was replotted on the manuscript and held in this plot.
5. CURLY, 1951 and Sub Pt. CURLY, 1951 which have considerable elevation were not held on photograph 38039 which was badly tilted.

24. SUPPLEMENTAL DATA

None.

25. PHOTOGRAPHY

Photographic coverage was adequate for all areas of the surveys in this plot except for the southeastern corner of survey T-9415.

The definition of all photography is good.

Tilt determination was not considered necessary for photographs 37967 or 38039.

25. PHOTOGRAPHY (cont'd)

Two collimation marks are missing on photographs 38039 thru 38048. One is in chamber 4 and the other in chamber 8. Their lack may have contributed toward the difficulty encountered in making a tie between the shoreline flight and the interior flight.

26. VERTICAL CONTROL

The following discrepancies were noted during computations of elevations following the establishment of their positions in the radial plot:

PEAK 834 - The horizontal angle from THIRTEEN, 1951 misses the position obtained for PEAK 834 by several degrees. However, the elevation as computed from observations made from the other stations check with that obtained from THIRTEEN, 1951. Therefore, the elevation obtained from THIRTEEN, 1951 was used in weighing the corrected elevations.

PEAK 835 - The horizontal angle from CORWIN, 1951 missed PEAK 835. The horizontal angles from two other stations passed through PEAK 835. The elevation computed from CORWIN failed to check. A check of the photographs revealed another peak which the field man had probably observed from CORWIN, 1951. This peak was identified in the office and called PEAK 835 A.

PEAK 835-A. This peak is office identified. It has an unchecked elevation and should be used with caution.

PEAK 837 - This peak was pricked about 600 meters northwest of the point indicated by the field man on the field photograph. The horizontal angles indicated that it should so be moved. The elevation checks within a tenth of a meter.

PEAK 839 - The elevation obtained from observations made from MURKPUK ECCENTRIC, 1951 was accepted as an unchecked elevation because the horizontal angle checked.

The horizontal angles from KIGIK, 1951 and V-214 missed PEAK 839 by several degrees. Another peak was identified by this office, but the elevations did not check. Therefore, it appears that a different peak was identified from each of the three triangulation stations.

The observations from KIGIK and V-214 were rejected.

PEAK 843 - The elevation obtained for this peak from V-214 was rejected because it did not check with that obtained from three other stations by 85 meters.

The horizontal angle from V-214 to PEAK 843 actually passes through PEAK 850. Therefore, the data obtained for PEAK 943 from V-214 was used in computing the elevation of PEAK 850.

26. VERTICAL CONTROL (Cont'd

PEAK 845 - The point indicated on the field photograph by the field man doesn't agree with horizontal angles which intersect at a point about 900 meters to the south. Although the computed elevations to the peak indicated on the field photograph check very well from three triangulation stations, the elevation obtained from SPURR, 1951 failed to check by about + 8 meters. The elevation of the office-identified peak located near the intersection of the horizontal angles checks within half a meter from all four of the stations.

PEAK 848 - The elevation obtained for PEAK 848 from SABINE-ASTRO, 1951 failed to check by +6.1 meters. The horizontal angle also failed to check; therefore, the elevation from SABINE-ASTRO was disregarded.

PEAK 850 - This is a checked elevation because it is obvious from the horizontal angles that the observation to PEAK 843, so indicated by the field man, was really made to PEAK 850. The elevation obtained for PEAK 850 from SABINE-ASTRO checks that made supposedly to PEAK 843 by 0.5 meters.

V-2113 - The observation from V-215 to V-2113 was rejected because the horizontal angle missed the position of V-2113 by about 3°.

Respectfully Submitted
23 October 1953

E. L. Williams
E. L. Williams
Carto. Photo. Aid

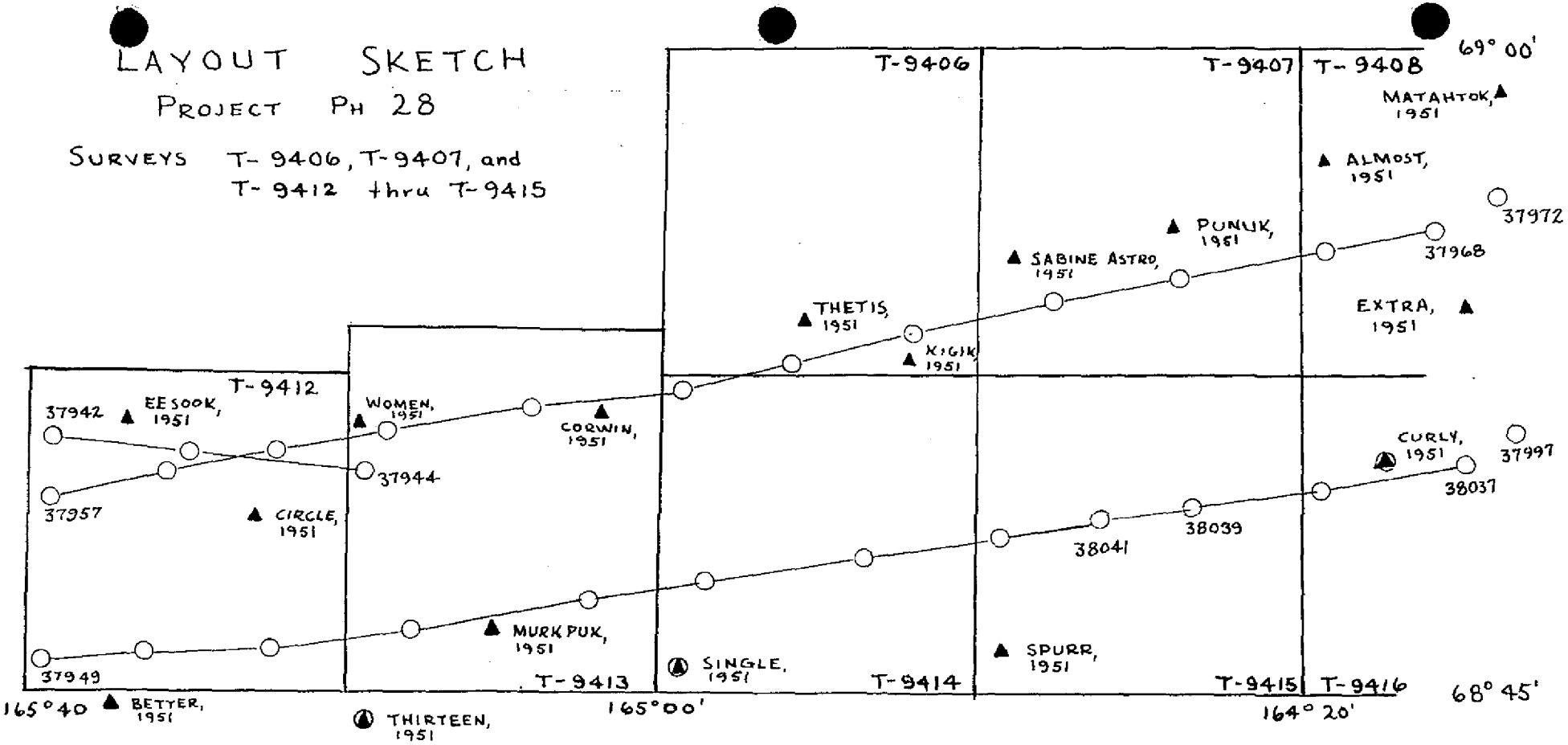
Approved & Forwarded
23 October 1953

Jack C. Sammons,
Capt. U.S.C. & G. S.
Officer in Charge

LAYOUT SKETCH

PROJECT PH 28

SURVEYS T-9406, T-9407, and T-9412 thru T-9415



○ Nine-lens office photographs

▲ Control stations identified

◭ Control stations not held in plot

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Photogrammetry

MAP T- 9410 PROJECT NO. Ph- 28 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE			DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS 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)
Sub Pt.		N.A.	68	52					629.3	(1229.8)		
UNION, 1951		1927	166	03					99.7	(571.0)		
	G-9180	"	68	52	19.945			16'	618.0	(1241.1)	✓	
UNION, 1951	p. 6		166	03	10.855				121.3	(549.4)		
Sub Pt.		"	68	52					536.9	(1322.3)		
WEVUK, 1951			166	08					572.8	(98.0)		
	G-9180	"	68	52	16.875			1586'	522.9	(1336.3)	✓	
WEVUK, 1951	p. 2		166	08	51.294				573.5	(97.3)		
Sub Pt.		"	68	52					912.3	(946.8)		
LISBURNE, 1951			166	12					623.5	(47.1)		
	G-9180	"	68	52	31.315			938	970.3	(888.8)	✓	
LISBURNE, 1951	p. 6		166	12	55.966				625.5	(45.1)		
Sub. Pt.		"	68	48					97.5	(1761.6)		
SEESAWK, 1951			166	10					368.0	(304.8)		
	G-9180	"	68	48	07.110			902'	220.3	(1638.8)	✓	
SEESAWK, 1951	p. 2		166	10	29.222				327.7	(345.1)		

1 FT. = .3048006 METER

COMPUTED BY: W.L. Lineweaver DATE 14 May 1953 CHECKED BY: E.L. Williams DATE 25 May 1953

M-2388-12

CONFIDENTIAL

Photogrammetry

MAP T- 9411 PROJECT NO. Ph- 28 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE			DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS 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)
Sub Pt.		N.A.	68	46				elev 2023'	105.2	(1753.9)		
MT. HAMLET, 1951		1927	165	57					82.7	(591.2)		
	G-9180	"	68	46	02.509			2034'	77.7	(1781.4)	✓	
MT. HAMLET, 1951	p. 6		165	57	07.394				83.0	(590.9)		
Sub Pt. "1"		"	68	51				3	877.2	(981.9)		
GUTUK, 1951		-	165	44				'	207.9	(463.3)		
Sub Pt. "2"		"	68	51				3	874.4	(984.7)		
GUTUK, 1951		-	165	44				'	242.1	(429.1)		
	G-9180	"	68	51	29.243			9'	906.1	(953.0)	✓	
GUTUK, 1951	p. 3	-	165	44	16.456				184.1	(487.1)		
Sub Pt.		"	68	50				953'	459.1	(1400.1)		
AHYOU, 1951		-	165	40					607.4	(64.4)		
	G-9180	"	68	50	13.108			980'	406.2	(1453.0)	✓	
AHYOU, 1951	p. 2	-	165	40	46.075				515.9	(155.9)		
	G-9180	"	68	52	01.431			368	44.3	(1814.8)	✓	
SHARPY, 1951	p. 2	-	165	58	36.590				409.1	(261.8)		
Sub Pt. "1"		"	68	48				1962	577.6	(1281.5)		
TUFFY, 1951		-	165	58					270.0	(402.7)		
Sub Pt. "2"		"	68	48				1966	566.6	(1292.5)		
TUFFY, 1951		-	165	58					283.3	(388.9)		
	G-9180	"	68	48	18.996			1962	588.6	(1270.5)	✓	
TUFFY, 1951	p. 2	-	165	58	24.784				277.9	(394.8)		

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1 FT. = .3048006 METER

COMPUTED BY: W.L. Lineweaver DATE 14 May 1953 CHECKED BY: E.L. Williams DATE 25 May 1953

M-2388-12

Photogrammetry

CONFIDENTIAL

MAP T-9412 PROJECT NO. Ph-28(47) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE °	'	"	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION elev.	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)
Sub. Pt. EESOOK, 1951		N.A. 1927	68	51				234'	303.7	(1555.5)		
			165	31					356.9	(314.4)		
EESOOK, 1951 ✓	G-9180 p.6	"	68	51	12.334			262'	382.2	(1477.0)		
			165	31	38.529				431.1	(240.2)		
Sub. Pt. "1" CIRCLE, 1951		"	68	49				930'	1737.4	(121.7)		
			165	21					488.5	(183.5)		
Sub. Pt. "2" CIRCLE, 1951		"	68	49				928'	1735.2	(123.9)		
			165	21					649.0	(23.0)		
CIRCLE, 1951 ✓	G-9180 p. 3	"	68	49	59.609			932'	1847.0	(12.1)		
			165	21	51.296				574.5	(97.5)		
Sub Pt. "1" BETTER, 1951		"	68	44				900'	1676.7	(182.5)		
			165	36					63.1	(611.4)		
Sub. Pt. "2" BETTER, 1951		"	68	44				928'	1419.9	(439.3)		
			165	36					106.5	(568.0)		
BETTER, 1951	G-9180 p. 2	"	68	44	42.890			950'	1329.0	(530.2)		
			165	36	21.520				241.9	(432.6)		

Grant Smith
M. Grant

Page 16

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: W. L. Lineweaver DATE 15 May 1953 CHECKED BY: E. L. Williams DATE 25 May 1953

CONFIDENTIAL

Photogrammetry

MAP T-9413 PROJECT NO. Ph-28(47) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION Elev.	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)
Sub. Pt. CORWIN, 1951		N.A. 1927	68 52		541'	312.6 (1546.5)	
			165 01			393.0 (277.9)	
CORWIN, 1951	G-9180 p. 3	N.A. 1927	68 52 07.982		547'	247.3 (1611.8)	
			165 01 39.387			440.4 (230.5)	
Sub. Pt. MURKPUK, 1951		"	68 46		1195'	1700.0 (159.1)	
			165 06			564.5 (109.0)	
MURKPUK, ECC., 1951		"	68 46		1198'	1679.7 (179.4)	
			165 06			519.3 (154.2)	
MURKPUK, 1951	G-9180 p. 3	"	68 46 54.199		1198'	1679.4 (179.7)	
			165 06 49.381			554.3 (119.2)	
Sub. Pt. THIRTEEN, 1951		"	68 44		764'	1844.0 (15.2)	
			165 17			122.2 (552.7)	
THIRTEEN, 1951	G-9180 p. 3	"	68 44 00.092		1092'	2.9 (1856.3)	South of map.
			165 17 14.240			160.2 (514.7)	
Sub. Pt. "1" WOMEN, 1951		"	68 51		357'	629.4 (1229.9)	
			165 16			349.0 (322.2)	
Sub. Pt. "2" WOMEN, 1951		"	68 51		388'	628.2 (1231.1)	
			165 16			550.5 (120.7)	
WOMEN, 1951	G-9180 p. 6	"	68 51 20.631		384'	639.3 (1220.0)	
			165 16 42.633			476.9 (194.3)	

Page 17

1 FT. = .3048006 METER

COMPUTED BY: W. L. Lineweaver DATE 15 May 1953 CHECKED BY: E. L. Williams DATE 25 May 1953

M-2388-12

Photogrammetry

CONFIDENTIAL

MAP T-9414 PROJECT NO. Ph-28(47) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE °	'	"	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS 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)
Sub. Pt. SINGLE, 1951		N.A. 1927	68	46					923.9	(935.2)		
			164	55					377.3	(296.8)		
SINGLE, 1951 ✓	G-9180 p. 3	"	68	45	31.435				974.0	(885.1)		
			164	55	59.065				663.6	(10.5)		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: W. L. Lineweaver DATE 15 May 1953 CHECKED BY: E. L. Williams DATE 25 May 1953

Photogrammetry

CONFIDENTIAL

MAP T-9415 PROJECT NO. Ph-28(47) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS 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)
Sub. Pt. SPURR, 1951			68 47			236.3 (1622.9)	
			164 36			563.6 (110.2)	
SPURR, 1951 ✓	G-9180 p. 4	N.A. 1927	68 46 24.824			769.2 (1090.0)	
			164 36 38.210			429.1 (244.7)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: W. L. Lineweaver DATE 15 May 1953 CHECKED BY: E. L. Williams DATE 25 May 1953

Photogrammetry

CONFIDENTIAL

MAP T-9416 PROJECT NO. Ph-28(47) SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE °	'	"	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS 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)
Sub. Pt. CURLY, 1951		N.A. 1927	68	50					1260.0	(599.1)		
			164	12					422.0	(249.7)		
CURLY, 1951	G-9180 p. 4	"	68	50	37.654				1166.7	(692.4)		
			164	12	29.128				326.1	(345.6)		

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: W. L. Lineweaver DATE 15 May 1953 CHECKED BY: E. L. Williams DATE 25 May 1953

COMPILATION REPORT

31. Delineation:

Contours and cultural features were delineated simultaneously on the Reading Plotters. All the land area of quads T-9410 thru T-9414 has been mapped, but T-9415 has a small area in the SE corner missing, and T-9416 lacks a triangular area being roughly the SE half of the south half of the sheet. The actual area delineated is shown in red on page 5; the unmapped area was not controlled for mapping purposes, nor was it covered with mapping photos.

32. Control: Adequate; see side-headings 23 in both plot reports.

33. Supplemental Data: See separate brochures entitled:

"TABULATION OF ELEVATIONS AND COMPUTATIONS OF ELEVATIONS BY MAP MANUSCRIPTS FOR VERTICAL CONTROL STATIONS"

34. Contours and Drainage:

Photograph quality was good for contouring purposes and no areas of questionable contours remain.

35. Shoreline and Alongshore Details:

The shoreline in the area of this report is very smooth and regular. Inspection was adequate and was used as a guide during instrument delineation. No low-water or shoal lines were located, office or field.

36. Offshore Details: Not applicable since none exist.

37. Landmarks and Aids: None were recommended by the fieldman.

38. Control for Future Surveys:

Nine photo-topo and three hydro-topo stations were field established and photo identified, and have been positioned by the radial plot. They are listed in side-heading 49.

39. Junctions:

All junctions are in agreement since all were compiled as segments of the same project. On page 5 it is indicated that no contemporary surveys exist along the south border of the area to which to junction.

40. Horizontal and Vertical Accuracy:

The maps of this report meet the standards established by National Map Accuracy Standards for maps having a scale of 1:20,000 and showing relief by means of a 50ft contour interval. The supplemental 25ft contours employed in the more level areas are of the same accuracy.

46. Comparison with Existing Maps:

"ALASKA RECONNAISSANCE TOPOGRAPHIC SERIES; SECOND JUDICIAL DIVISION, POINT HOPE, ALASKA", 1:250,000, USGS, 1952.

47. Comparison with Nautical Charts:

a. ARCTIC COATS, Alaska, No.9400, 1:1,587,870, May 1946, 6th edition, last correction date of 27 Nov 50.

b. Provisional Chart, CAPE PRINCE OF WALES TO POINT BARROW, CHUKCHI SEA, Alaska-Arctic Coats, No.9402, 1:750,000, May 1950, 1st edition.

48. Geographic Name List: See next page.

49. Notes for the Hydrographer: See unnumbered page that follows.

50. Compilation Office Review: See T-2 form following.

Submitted by:

Orvis N. Dalbey

Orvis N. Dalbey, Chief,
Nine-Lens Plotting Instrument Section

Approved and Forwarded by:

Louis J. Reed

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-9410 thru T-9416

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
T-9410										1
AHKAHLOOGEN CREEK AKLOEGOOK POINT										2
ARCTIC OCEAN CAPE LISBURNE										3
CHUKCHI SEA EEGAHROOK HILLS										4
EEKROAT PINNACLES KIAK CREEK	Kiak Creek (about lat 51')									5
KOOKLOOKTUK CREEK LISBURNE HILLS										6
NEAH CREEK NIAK CREEK	(just North of lat 68°45')									7
NOYAHLIK PEAK OAKPILAHTOOK BLUFF										8
OOKNICK CREEK SEESAWK BLUFF		Ookinik Creek Seesawkrook Bluff								9
SILIN CREEK WEWUK (Abandoned)		Selin Creek								10
T-9411										11
AHYOUGUTUK HILLS " LAKE										12
" RIVER ARCTIC OCEAN										13
CHUKCHI SEA LISBURNE HILLS										14
MT HAMLET EEGAHROOK HILLS	Eegahruk Creek									15
EENEEGIKSOOK CREEK										16
T -9412										17
AHYOUGUTUK HILLS AHYOUGUTUK LAKE										18
ARCTIC OCEAN CHUKCHI SEA										19
EESOOK CREEK SAPUMIK RIDGE	(Eesook)									20
T-9413										21
AKNASUK CREEK ARCTIC OCEAN										22
CHUKCHI SEA CORWIN MINE										23
KOOKROOK CREEK CORWIN BLUFF										24
T-9414										25
KIGIKTOWK CREEK THETIS CREEK										26
										27

GEOGRAPHIC NAMES

Survey No.

T-9410 thru T-9416 continued

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
T-9415										1
PITMEGEA ~~CREEK~~ River										2
										3
										4
										5
T-9416										6
NOONUKLOOK MT										7
PIGLUT CREEK										8
PITMEGEA ~~CREEK~~ River										9
				Names approved						10
				7-3-55. L. Heck						11
										12
										13
										14
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										26
										27

$(.

49. Notes for the Hydrographer:

a. Photo-Topo Stations:

T-9410 =	BAKE, 1951	identified on photo	22733	(1:20,000)
	NIAK, 1951	"	22732	"
T-9411 =	DIKE, 1951	"	48-0-219	(1:10,000)
	GUTUK AZ MK, 1951	"	22822	(1:20,000)
T-9412 =	RUTH, 1951	"	48-0-227	(1:10,000)
	*THIRTEEN AZ MK, 1951	"	BAR 349-085	
T-9413 =	EWLK, 1951	"	48-0-227	(1:10,000)
	MALE, 1951	"	48-0-229	"
	MURKPUK AZ MK	"	22816	(1:20,000)
T-9414 =	SINGLE AZ MK	"	22814	"
T-9415 =	None			
T-9416 =	None			

b. Photo-Hydro Stations:

T-9410 = No.166 identified on photo 22733 (1:20,000), and described as,"W endof the northerly of two rock ledges at Cape Lisburne, on the SW side of the Cape."
T-9411 = None
T-9412 = None
T-9413 = No.167 identified on photo 48-0-231 (1:10,000), and described as,"NE gable of a wooden house at Corwin Mine, the southerly of two houses."
T-9414 = none
T-9415 = None.
T-9416 = None.

* Just south off southern limits of sheet.

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T-9410 thru 9416

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 ✓ 8. Bench marks N
9. Plotting of sextant fixes N 10. Photogrammetric plot report ✓ 11. Detail points N

✓ = checked
N = non-applicable

ALONGSHORE AREAS
(Nautical Chart Data)

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

CULTURAL FEATURES

27. Roads N 28. Buildings ✓ 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. _____

Reviewer

Supervisor, Review Section or Unit
Louis J. Reed, Chief
Stereoscopic Mapping Branch
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

Review Report T-9410 through T-9416
Topographic Maps
14 February 1955

62. Comparison with Registered Topographic Surveys:

T-2337 rec. 1:1,000,000 1898

The area of these surveys is covered by T-2337 which is a reconnaissance sketch credited to the work of a native attached to the survey party.

63. Comparison with Maps of Other Agencies:

Point Hope, Alaska (Reconnaissance)
U.S.G.S., 1:250,000, 1952
DeLong Mountains, Alaska (Reconnaissance)
U.S.G.S., 1:250,000, 1951

No effective comparison can be made between these surveys and the U.S.G.S. surveys because of the small scale and generalized detail of the latter.

64. Comparison with Contemporary Hydrographic Surveys:

No hydrographic surveys by the Bureau have been accomplished in the area of these maps.

65. Comparison with Nautical Charts:

9400, 1:1,587,870, corrected to 6/30/52

There are no critical differences between the maps and the chart.

66. Adequacy of Results and Future Surveys:

These maps are adequate for use in hydrographic surveys and the construction of nautical charts. These maps meet the National Standards of Map Accuracy.

Reviewed by:

K. N. Maki

K. N. Maki

APPROVED:

L. C. Landy
Chief, Review Section
Photogrammetry Division

for Wallace A. Bruder
Chief, Nautical Chart Branch
Charts Division

L. W. Swanson
Chief, Photogrammetry Division
5 Aug 57

Chief, Coastal Surveys Division