8072 8073

8072 8073

8072 8073

Diag. Cht. No. 9103.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

# DESCRIPTIVE REPORT

*Type of Survey* Topographic

*Field No.* Ph-41(49)S *Office No.* T-8072
T-8073

LOCALITY

*State* Alaska

*General locality* Kuskokwim Bay

*Locality* Goodnews Bay

1949-50

CHIEF OF PARTY
A.N.Stewart, Chief of Field Party
L.J.Reed, Div. of Photo.,Wash.,D.C.

LIBRARY & ARCHIVES

DATE June 19, 1958

8-1870-1 (1)

DATA RECORD

T- 8072 and T-8073

Project No. (II): Ph-41(49)S Quadrangle Name (IV):

Field Office (II): Platinum, Alaska Chief of Party: A. Newton Stewart

Photogrammetric Office (III): Washington, D.C. Officer in Charge: radial plot = Lester C. Lande
compilation = Louis J. Reed

Instructions dated (II) (III): 3 March 1949 Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading 9-lens Plotters

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

Scale Factor (III):

Date received in Washington Office (IV) OCT 1 3 1954 Date reported to Nautical Chart Branch (IV): Oct. 24 1957

Applied to Chart No. Date: Date registered (IV): 25 April 1958

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

Geographic Datum (III): NA 1927 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=

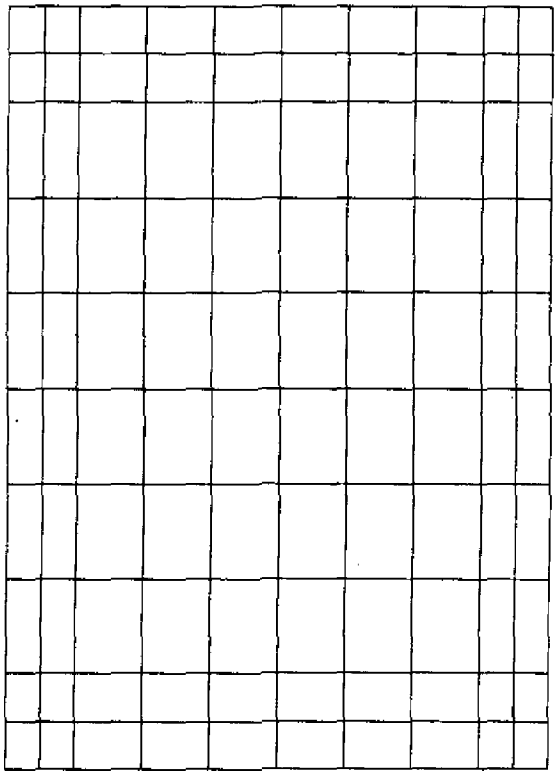
Universal Transverse Mercator Grid with 2500 meter interval

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)

No contouring in field during 1949.

Entire area compiled by Clarence E. Misfeldt on the Reading 9-lens Plotter, model "A".

# DATA RECORD

Field Inspection by (II): Date:

Shoreline and shoreline stations by: B.Kurs 3 June 1949
Inland horizontal control by : V. Serena, R.Spies 26 June 1949
Vertical control by : C.Bishop 16 July 1949

Planetable contouring by (II): R.Skelton Date:
J.Chamberlin
B.Kurs
C.Baldwin

Completion Surveys by (II): Date:

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

MHWL is dated 1949 since it was delineated on the 9-lens plotter using 1949 field inspection as a guide.

Projection and Grids ruled by (IV): Austin Riley on the Reading Ruling Machine Date: 16 Sep 53

Projection and Grids checked by (IV): Howard D. Wolfe Date: 18 Sep 53

Control plotted by (III): Lester C. Lande Date: 20 Sep 53

Control checked by (III): Neil S. Schultz Date: 22 Sep 53

Radial Plot ~~or Stereoscopic~~ Control extension by (III): Samuel D. Blankenbaker Date: 28 Oct 53

Stereoscopic Instrument ~~compilation~~ Planimetry delineation by: Clarence E. Misfeldt (III) Contours Date: 11 May 54 Date:

Manuscript delineated by (III): John B. McDonald Date: 4 Oct 54

Photogrammetric Office Review by (III): Louis J. Reed Date: 14 Oct 54

Elevations on Manuscript checked by (II) (III): Louis J. Reed Date: 14 Oct 54

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

PHOTOGRAPHS (III)

| Number | Date | Time | Scale | Stage of Tide |
|---|---|---|---|---|
| 28401-4 | 8 Aug 50 | 14:40 | 20,000 | .8' below MHHW |
| 28410-07 | " | 14:50 | " | " |
| 28421-25 | " | 15:00 | " | " |
| 28426-31 | " | 15:05 | " | " |

Tide (III)

| | Ratio of Ranges | Mean Range | Spring Range |
|---|---|---|---|
| Reference Station: | | | |
| Subordinate Station: | | | |
| Subordinate Station: | | | |

Washington Office Review by (IV): Lina T. Stevens Date: 6 May 1953

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): T-8072 = 25 sq mi; T-8073 = 60 sq mi

Shoreline (More than 200 meters to opposite shore) (III): T-8072 = 38 mi.; T-8073 = 11 mi.

Shoreline (Less than 200 meters to opposite shore) (III): T-8073(only) = 10 mi.+

Control Leveling - Miles (II): none

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

* Number of BMs searched for (II): Recovered: Identified:

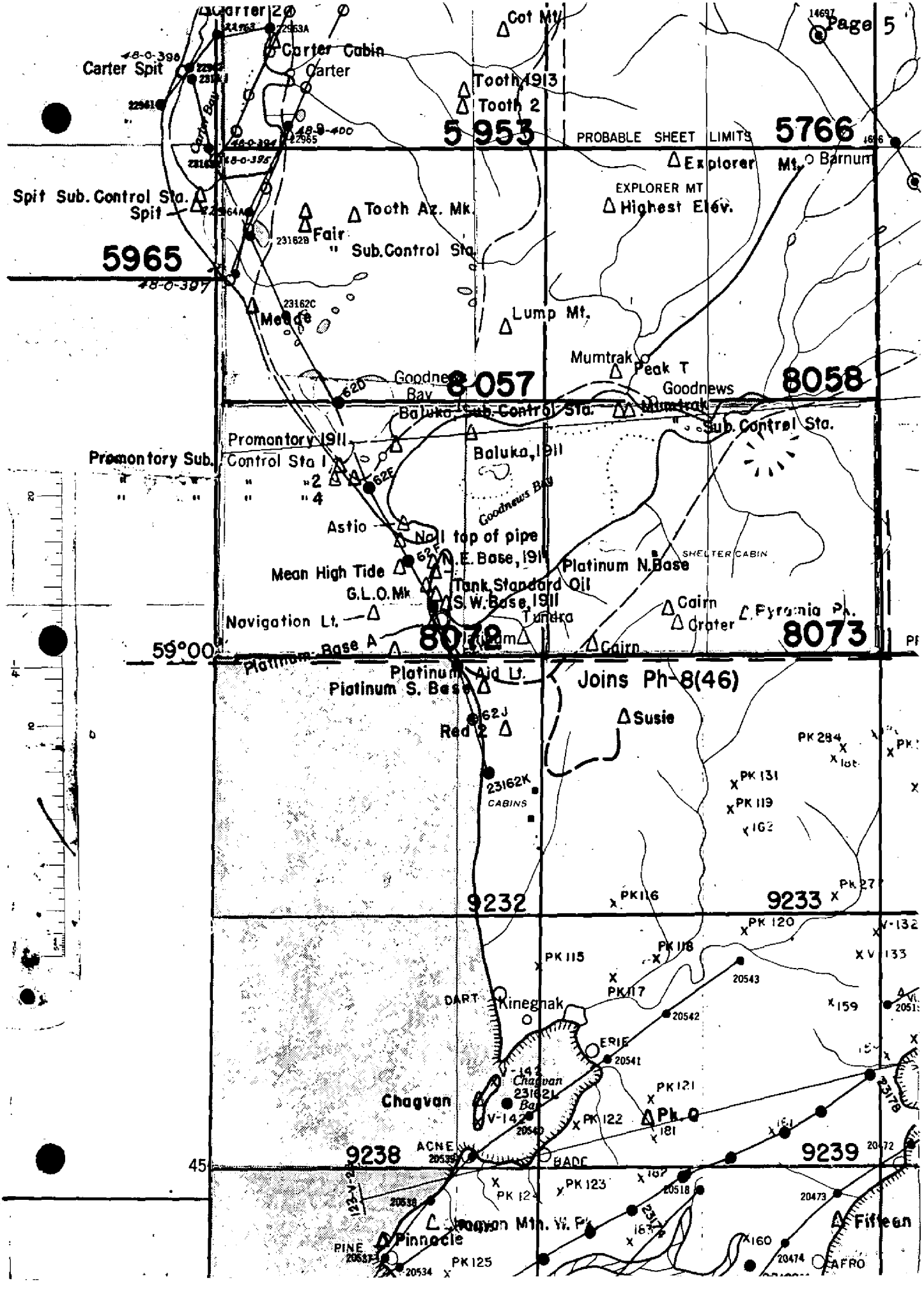
Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks: * See Project Report, section TOPOGRAPHIC SHEETS.



M-2618-12(4)


Carter 2
Carter Cabin
Carter
Carter Spit
48-0-396
Cot Mt.
Tooth 1913
Tooth 2
5953
PROBABLE SHEET LIMITS
5766
Explorer Mt.
Barnum
EXPLORER MT
Highest Elev.
Spit Sub. Control Sta.
Spit
Tooth Az. Mk.
Fair
" Sub. Control Sta.
5965
48-0-397
Meade
Lump Mt.
Mumtrak
Peak T
Goodnews Bay
8057
8058
Goodnews
Mumtrak
Baluka Sub. Control Sta.
Sub. Control Sta.
Promontory 1911
Promontory Sub.
Control Sta 1
" "2
" "4
Baluka, 1911
Goodnews Bay
Astio
Nail top of pipe
N.E. Base, 1911
Platinum N. Base
SHELTER CABIN
Mean High Tide
G.L.O. Mk
Tank Standard Oil
S.W. Base, 1911
Navigation Lt.
Tundra
Cairn
Crater
Pyramid Pk.
59°00'
8072
8073
Platinum Base A
Platinum Aid Lt.
Platinum S. Base
Joins Ph-8(46)
Susie
Red 2
23162K
CABINS
PK 284
PK 131
PK 119
PK 116
9232
9233
PK 120
PK 115
PK 118
PK 117
DART
Kinegnak
20543
20542
ERIE
20541
Chagvan
Chagvan Bay
PK 121
PK 122
Pk. 0
9238
ACNE
BADE
9239
PK 123
PK 125
Chagvan Mtn. W. Pk.
Pinnacle
PINE
20534
Fifteen
AFRO
20474
20473
20518
45

Summary to Accompany T-8072 and 8073

Project Ph-41(49), Kuskokwim Bay and River, has two sections: Ph-41(S) consists of twelve topographic maps extending from Platinum (59° 00') to Kwinhagak (59° 45'); and Ph-41(N), twenty-two planimetric maps, extending from Kwinhagak to the vicinity of Bethel (60° 52-1/2').

The field work was carried out as a combined operation between Photogrammetry and Geodesy (project G-949) during the season of 1949 and was a continuation of the Bristol Bay project, 1949.

T-8072 and T-8073 are the most southerly in this project and embrace the Goodnews Bay area. They join T-9232 and T-9233, respectively, in project Ph-8(49).

1. Preface:

# FIELD INSPECTION REPORT

2-20: See separate report entitled:

PROJECT REPORT

AERIAL PHOTOGRAPH CONTROL AND INSPECTION

KUSKOKWIM BAY, ALASKA

Project Ph-41(49) May to July, 1949

A. Newton Stewart, Chief of Party

filed in Project Report in Library

Project Ph-41(49)

Photogrammetric Plot Report

21. Area Covered:

The topographic manuscripts included in this radial plot are in the Kuskokwim Bay area bounded by Goodnews Bay on the south and the village of Kwinhagak on the north.

| | | | |
|---|---|---|---|
| 8072 | 8058 | 5921 | 5727 |
| 8073 | 5953 | 5966 | 5728 |
| 8057 | 5965 | 5779 | 5726 |

22. Methods:

Vinylite base grids which will subsequently serve as manuscripts were ruled at a scale of 1:20,000 with polyconic projections and 2500 meter UTM grids.

Nine lens metal mounted 1:20,000 scale photographs were used in the plot.

| | | | | |
|---|---|---|---|---|
| 28384 | through | 28395 | 28453 | |
| 28378 | " | 28382 | 28454 | |
| 28400 | " | 28404 | 28456 | through 28460 |
| 28407 | " | 28410 | 28464 | |
| 28412 | | | 28467 | |
| 28413 | | | 28578 | through 28581 |
| 28415 | | | 28575 | |
| 28417 | through | 28424 | | |
| 28427 | " | 28434 | | |

The templets were made from vinylite stock using master calibration templet No. 27380 to adjust for transforming errors. A No. 80 twist drill was used to drill through the templets. All drill holes on the templets have been indicated with a 3.0 mm. diameter circle.

A total of 42 horizontal control stations on North American 1927 Datum (adjusted) were used as control points in assembling the plot. 32 points were held within o.3 mm. The disposition of points not held is discussed in section 23 of this report. A sheet showing the tolerance of each point is included with the report.

The section of the radial plot that falls on T-8073 is weak in comparison with the major part of the plot in regard

to good intersections of radials for photogrammetric points. During preliminary assemblies it was found to be impossible to hold Crater substation along with the rest of the horizontal control and at the same time maintain good intersections for photogrammetric points. In addition it was found that Crater substation had to be held fairly close in order to make a reasonable junction with the photogrammetric points on manuscript T-9233 established by the radial plot for Ph-8. The field identification of Crater substation is classified as "positive". The substation (~~Cairn~~ (cairn)) was field identified on clear "620" photographs and "positive" transfers to office nine lens photographs were made. The decision was made to hold Crater substation.

Due to the weakness in the plot mentioned in the preceding paragraph and to a lack of horizontal control, the easternmost flight (28427 through 28434) is considered to be of ~~substation~~ (substandard) accuracy east of the 161° 26' line of longitude. The templets for this flight were assembled with the remainder of the plot; however, only photograph centers and points of known elevation were drilled and circled on the manuscripts. Manuscript T-9233 was a part of the Ph-8 radial plot and has been compiled. T-9233 and the radial plot for T-8073, T-8058 and T-5766 are considered to be of substandard accuracy east of the 161° 26' line of longitude.

No compilation east of this line

This plot is on N.A. 1927 datum (adjusted). Junctions were made with a Portland Office radial plot and a radial plot laid in this office. These manuscripts (T-5727; 9232; 9233) are on N.A. 1927 unadjusted datum. An average datum difference was attained from triangulation stations in the junction areas. The shift from the old to the new adjusted positions is to the north and east. This difference was plotted and circled to the north and east of polyconic projection intersections in the junction areas on the new manuscripts. Acetate templet stock overlays used during radial plotting to recover adjusted positions from manuscripts on unadjusted datum may be used by holding the grid intersection on these overlays to the plotted and circled positions on the new manuscripts. Blue circles on these overlays represent the adjusted position of photogrammetric points obtained by contemporary plots. The red circles represent the positions obtained by the subject plot.

23. Adequacy of control:

The attached index shows the density and distribution of horizontal and vertical control in the area and those points held in the plot. Both horizontal and vertical control were generally adequate, and only 10% of the vertical control was rejected.

Of the ten stations not held in the plot, two stations, Pyramid Peak and Explorer Mountain, have been rejected by

Geodesy.

Field inspection errors appear to be the reason why Tundra (outside the manuscripts in this plot), Lump Mountain, Tooth-2 azimuth mark subpoint, Twin Mountain, Low Conical Hill, Twin Az. mark sub. pt. Highest Elevation (Peak, 140) and North Yoke Mountain did not hold. Vertical control stations V-124, V-123, V-128, and V-138 were not computed and plotted because V-123 and V-124 were outside the photograph coverage, and V-128 and V-138 could not be identified. All data incidental to these position computations were observed during the 1949 field season and are in the project file under Ph-41 (49) south.

24. Supplemental Data:

"Zenith Distances for Kuskokwim Bay", 1949 field season; Horizontal control for Ph-41 (49) So. Kuskokwim Bay, 1949 field season; Project Report "Aerial Photograph Control and Inspection for Ph-41 (49) by A. N. Stewart.
(Filed in Project Report in Library)

25. Photography:

No transforming irregularities are apparent and the photography is good. The images on some of the barren peaks were difficult to see, but for the most part the photographs were not difficult to prepare for radial plotting.

26. Vertical Control:

All computations submitted on the 29D Forms are based on the elevations submitted by Geodesy in May 1952. The final adjustment was made in August 1952. A summary of the differences between Geodesy's final adjustment, and field elevations, and the hand level elevations obtained by the photogrammetric field party is on page 62 of the report "Aerial Photograph Control and Inspection for Ph-41 (49)". See copy marked "A" on front. The elevations shown on the topo recovery cards submitted by the field party are handlevel elevations and there is still an unaccounted for discrepancy between the field party (photogrammetric) elevations for certain control stations and the elevations obtained by the final adjustment from Geodesy. (What this means is that there is a difference in vertical datum between elevation carried through the triangulation and elevations detailed between photogrammetric field party by handleveling to the High Water Line and then correcting to Mean Sea Level. This situation is summarized on page 62 on the Field Report (see reference above) it amounted to only about 2½ feet.)

27. Horizontal Control:

Reference is made to correspondence file 711-rs in a letter dated 26 October 1950 to Portland concerning disposition of Geographic positions. Paragraph 12 states that Geographic positions of control stations should be omitted from these Descriptive Reports, and also the G.P. of the datum station shall be omitted from the data records.

The Geographic positions of these stations are therefore withdrawn and can be obtained from the project file on request.

28. Topographic Stations:

The substation for topographic station Yoke T-5727 was located by the radial plot. The home station was not plotted on the manuscript. It should be checked after contouring to determine if the azimuth station Baluka could be seen from the substation. See form 524 for topo station Lump. Two positions are shown for topographic station Zinc. The positions were plotted from T-8072 the substation and the 3-point fix shown on the back of the 524 form. For station Oboe see the 524 form and page 60 of T-5965 "Aerial Photograph Control and Inspection".

29. Single lens Plot:

A single lens plot was assembled independently from the nine lens plot on the south spit of Goodnews Bay. The photo stations established by this plot are listed in the summary accompanying this report.

Submitted by
S. G. Blankenbaker

Approved by
L. C. Lauda

SUMMARY OF PHOTO-STATIONS
ESTABLISHED BY RADIAL PLOT
(page 1 of 2)

T-8058

| "V" Stations | Peaks | | |
|---|---|---|---|
| V-139 sub. station | No. 30 | No. 243 | No. 241 50 147 |
| V-124 and V-123 (computed) | 244 | 242 | 48 |
| | 38 | 37 | 230 |

Outside the 161° 26' line of longitude No. 245; No. 137

T-5953

| Topographic Stations | "V" Stations | Peaks | |
|---|---|---|---|
| NEST sub. pt. | V-136 (sub.pt. ~~No. 2~~ No. 1) | No. 209 | No. 233 |
| EDAM " " | V-137 (sub.pt.) | 208 | 41 |
| GRIT " " | | 207 | |

T-5965

OBOE - topographic sta.

T-5766

Pks - No. 232 and No. 240

T-5728

| "V" Stations | Peaks | |
|---|---|---|
| V-1007 | No. 213 | No. 219 |
| V-1008 | 215 | 220 |
| V-1009 | 217 | |
| V-138 (computed | | |

T-5726

| "V" stations | Topo. Stations |
|---|---|
| V-149 | PINK |
| V-1015A | |

T-8072 (single lens plot)

WOLD, 1938
HYDRO STATIONS - No. 7203; No. 7202; No. 7201 see p.13
NE/SW Ranges
E/W Ranges

(nine lens plot)

| Topographic Stations | Hydro Stations |
|---|---|
| ZINC sub. pt. | No. 7206 |
| ALUM " " | 7205 see p.13 |
| FACE " " | 7204 |
| BOAT " " | |
| BRAT " " | |
| LUMP " " | |
| BUZZ | |

HOPE (not located by radial plot)

T-8073

Topographic Stations

EDGE Sub. pt.
MUCK " "
FISH " "

Vertical Control Stations

Pks. Nos. 246, 22, 23, 24, 25, 28, 29, 26

Outside the 161° 26' line - Pks. Nos. 247; 27; 279

T-8057

Topographic Stations

TRAP sub. pt.

"V" Stations

V-127 sub. pt.
V-126 " "
V-128 (computed)

Peaks

No. 48A
42
234

T-5727

"V" Stations

V-1015
V-147

Topo. Stations

KING
JACK
YOKE sub. sta.
JAKE " "

T-5921

Peaks

Nos. 214, 218, 235

T-5779

Topographic Stations

VOLT
ARCH sub. pt.
DUST " "

"V" Stations

V-135 (sub.pt.No.1)

Peaks

No. 139

Hydro (#100 on photo 23162G)
7201 Platinum Aid Light. (Sealed beam light on Platinum Commercial Co. store)
7202 (#126 on photo 23162G) NW gable Platinum Road House
7203 (#128
7204 (#129 on photo 42-2-V4, 25ft) Highest part of small isolated bare ridge on side of bluff.
7205 (#130 on photo 42-2-V4, 50ft) Intersection of sharp bare ridge and grass-line.
7206 (#131 on photo 42-2-V4, 30ft) W. gable of large cache on piles

Ft. p. 20

HORIZONTAL CONTROL
(page 1 of 2)

T-8072

| | |
|---|---|
| 1. Cupola Goodnews Bay Mining Co. Whse. | Held |
| 2. Goodnews Bay navigation light | .2 mm |
| 3. Platinum N. Base | Held |
| 4. Largest Tank of Four, Standard Oil Co. of Calif. | Held |
| 5. Astro | .2 mm |
| 6. Promontory | .2 mm |
| 7. Baluka (1948 sub. sta.) | Held |
| 8. Tundra | .5 mm |
| 9. Platinum S. Base (S. of 8072) | Held |

Platinum Base A (sub.pt.) and Goodnews Bay SW Base were held in the single lens plot. T-8072.

T-8073

| | |
|---|---|
| 1. MUMTRAK (sub. sta.) | Held |
| 2. CRATER (sub. sta.-CAIRN) | Held |
| 3. SUSIE (S. of 8073) 1 cut | Held |
| 4. PYRAMID PEAK | 1.0 mm |

T-8057

| | |
|---|---|
| 1. Peak "T" | Held |
| 2. Lump Mountain | 0.9 mm |
| 3. Tooth-2 AZ. MK. (sub. pt.) | 2.6 mm |
| 4. FAIR | Held |
| 5. MEADE | .2 mm |
| 6. Highest elevation (Peak 210) | .3 mm |

T-8058

No horizontal control

T-5965

| | |
|---|---|
| 1. SPIT (sub. pt.) | .3 mm |

T-5953

| | |
|---|---|
| 1. TOOTH-2 | .3 mm |
| 2. COT MOUNTAIN | Held |
| 3. CONE MOUNTAIN | Held |
| 4. CARTER-2 | Held |
| 5. SECOND (sub. pt.) | Held |

T-5766

| | |
|---|---|
| 1. EXPLORER MOUNTAIN | 2.8 mm |

T-5779

| | |
|---|---|
| 1. BEND-2 (sub. pt.) | .2 mm |
| 2. JACKSMITH-3 | .2 mm |
| 3. TWIN | 1.5 mm |
| 4. S.W. TWIN MOUNTAIN | .2 mm |
| 5. N.E. TWIN MOUNTAIN | .3 mm |
| 6. LOW CONICAL HILL | 1.0 mm |
| 7. TWIN AZ. MK. (sub. pt.) | .5 mm |

T-5921

| | |
|---|---|
| 1. SHARP | .4 mm |
| 2. Highest Elevation (Pk. 140) | .6 mm |

T-5728

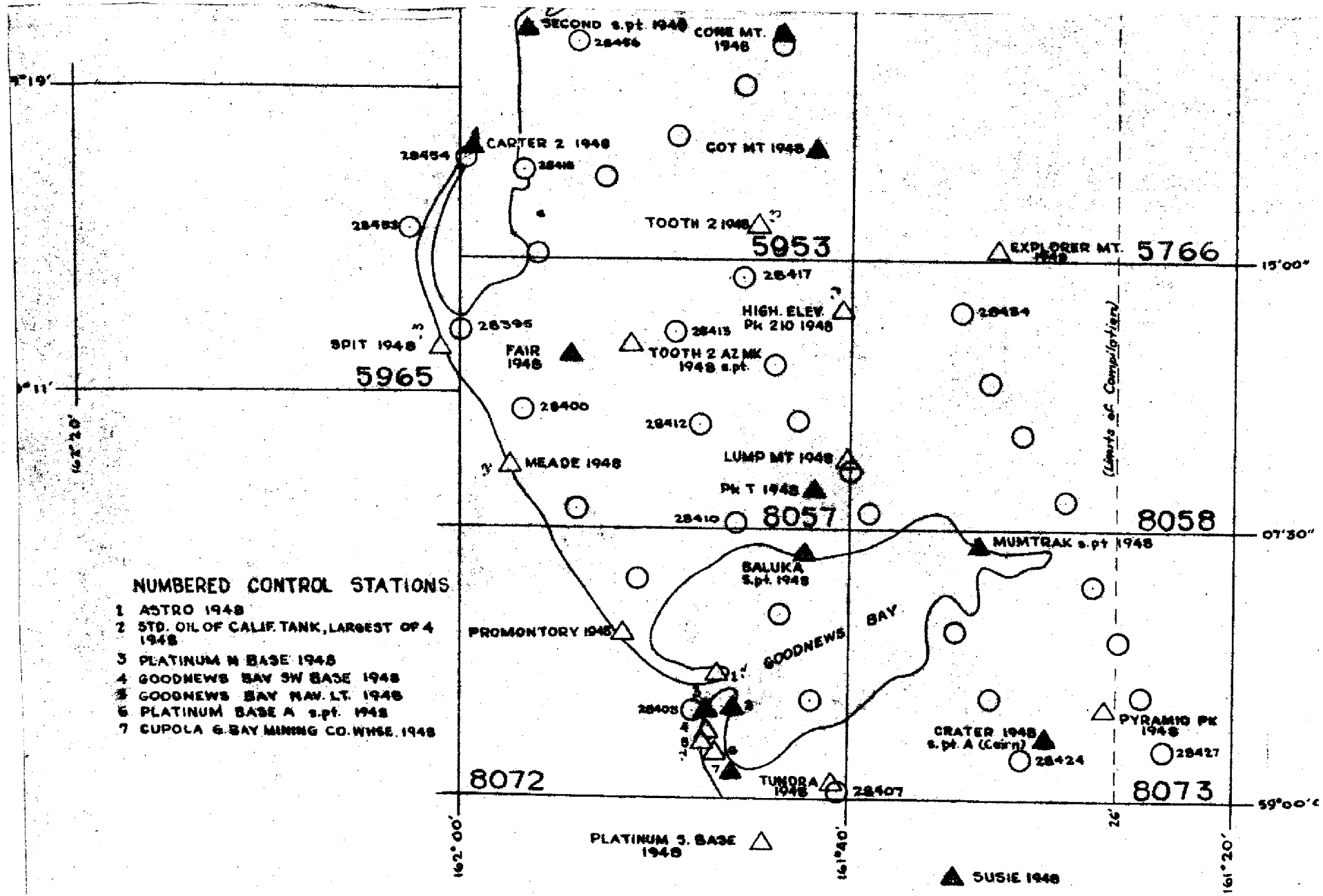
| | |
|---|---|
| 1. SNOW GULCH (Sub. pt. -1948) "2 cuts" | Held |
| 2. N. YOKE | .7 mm |
| 3. S. YOKE | Held |
| 4. END | .3 mm |

T-5727

No horizontal control

T-5726

| | |
|---|---|
| 1. KWINHAGAK (sub. pt.) "2 cuts" | .3 mm |
| 2. DWINHAGAK CHURCH SP. (N of 5726-Topo) "2 cuts" | Not Held |
| 3. AROLIK | Held |
| 4. AROLIK (sub. pt.) | Held |
| 5. KWIN (N. of 5726) "2 cuts" | Held |


SECOND s.pt. 1948
28456
CONE MT. 1948
CARTER 2 1948
28454
28418
COT MT 1948
28453
TOOTH 2 1948
5953
EXPLORER MT. 1948
5766
15'00"
28417
HIGH. ELEV. Pk 210 1948
28454
28395
28415
SPIT 1948
FAIR 1948
TOOTH 2 AZ MK 1948 s.pt.
5965
28400
28412
LUMP MT 1948
MEADE 1948
Pk T 1948
28410
8057
8058
07'30"
MUMTRAK s.pt 1948
BALUKA s.pt. 1948
PROMONTORY 1948
GOODNEWS BAY
28403
CRATER 1948 s.pt. A (Cairn)
28424
PYRAMID PK 1948
28427
8072
TUMORA 1948
28407
8073
59°00'
PLATINUM 3. BASE 1948
SUSIE 1948
162° 00'
161°40'
161°20'
(Limits of Compilation)
NUMBERED CONTROL STATIONS
1 ASTRO 1948
2 STD. OIL OF CALIF. TANK, LARGEST OF 4 1948
3 PLATINUM N BASE 1948
4 GOODNEWS BAY SW BASE 1948
5 GOODNEWS BAY NAV. LT. 1948
6 PLATINUM BASE A s.pt. 1948
7 CUPOLA G. BAY MINING CO. WHSE. 1948

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

# NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED | TO BE DELETED — STRIKE OUT ONE

Washington, D. C. Feb. 8, 1951

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by Ray H. Skelton

L. C. Lande

S/ A. Newton Stewart *Chief of Party.*

| STATE | | | POSITION | | | | | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | LATITUDE | | LONGITUDE | | DATUM | | | | | | |
| CHARTING NAME | DESCRIPTION | SIGNAL NAME | ° ′ | D.M. METERS | ° ′ | D.P. METERS | | | | | | | |
| BUILDING | N.W. Gable Platinum Road House (hydro No. 7202) | | 59 00 | 1529 | 161 49 | 65 | N.A. 1927 | Radial Plot T-8072 | 2/5/51 | x | x | x | 9302 9103 |
| OIL TANK | Center largest tank (Tank, Largest of 4, 1948) | | 59 02 | 1706.6 | 161 49 | 11.0 | " | Triang. | 1948 | x | x | x | " |
| BALUKA PK. | Top of Pk. adjacent N. shore Goodnews Bay Mapped as Beluga Hill (Baluka, 1911, 1948) | | 59 06 | 1326.0 | 161 44 | 899.1 | " | Triang. | 1948 | x | x | x | " |

Page 17

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating*

Retain for Descr. 8072

Form 567
April 1945

# DEPARTMENT OF COMMERCE
## U. S. COAST AND GEODETIC SURVEY

## NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED / TO BE DELETED — STRIKE OUT ONE

Washington, D. C. February 8, 1951

I recommend that the following objects which have *(have not)* been inspected from seaward to determine their value as landmarks be charted on *(deleted from)* the charts indicated.

The positions given have been checked after listing by Ray H. Skelton

L. C. Lande
S/ A. Newton Stewart *Chief of Party.*

| STATE / CHARTING NAME | DESCRIPTION | SIGNAL NAME | POSITION LATITUDE ° ′ | LATITUDE D.M. METERS | LONGITUDE ° ′ | LONGITUDE D.P. METERS | DATUM | METHOD OF LOCATION AND SURVEY No. | DATE OF LOCATION | HARBOR CHART | INSHORE CHART | OFFSHORE CHART | CHARTS AFFECTED |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Beacon | W object of E-W range Goodnews Bay | T-8072 3ma | 59-01 | 84 | 161-49 | 762 | N.A. 1927 | Radial Plot T-8072 | Feb.5 1951 | x | x | x | 9103 9302 |
| Beacon | E object of E-W range Goodnews Bay | " | 59-01 | 81 | 161-49 | 462 | " | " | " | x | x | x | " |
| Beacon | SW object of SW-NE range Goodnews Bay | " | 59-01 | 783 | 161-50 | 148 | " | " | " | x | x | x | " |
| Beacon | NE object of SW-NE range Goodnews Bay | " | 59-01 | 1062 | 161-49 | 893. | " | " | " | x | x | x | " |
| | | | | | | | | | | | | | |
| Light | Sealed beam lt. Platinum Aid Light - on store | Hy 7201 Vol II P.278 3ma 3-14-58 | 59-00 | 1516.0 ~~1498.8~~ | 161-48 | 938.4 ~~2.8~~ | " | Triang. 1948 | 1948 | x | x | x | " |
| FR | Goodnews Bay Navigation Light | | 59-01 | 1173.1 ~~90.0~~ | 161-50 | 309.3 ~~3.5~~ | " | " | 1948 | x | x | x | " |
| | | | | | | | | | | | | | |
| | The "Beacons" listed were located in 1938 on H-6317 on Rhodes datum by R. W. Knox. | | | | | | | | | | | | |
| | They were located on this survey T-8072 with 1:10,000 scale single lens and are | | | | | | | | | | | | |
| | considered good positions. RJF | | | | | | | | | | | | |

Page 18

This form shall be prepared in accordance with Hydrographic Manual pages 800 to 804. Positions of charted landmarks and *nonfloating*

COMPILATION REPORT

31. Delineation:

Instrument delineation was accomplished on the Reading 9-lens plotter controlled by positions and elevations established by the radial plot. The entire area of both sheets was compiled except for the 6' of longitude on the eastern edge of T-8073, where photo coverage was nil.

32. Control:

Reference side-heading 23, this report, page 9. In general, both types of control were sufficient

33. Supplemental Data: Complete in side-heading 24, page 10.

34. Contours and Drainage:

The quality of the photography was suitable for contouring purposes and no areas of questionable contours remain.

35. Shoreline and Alongshore Deatils:

The shoreline in this vicinity is very regular and very little field inspection was necessary. Shallow areas were indicated thru office delineation.

36. Offshore Details: Not applicable.

37. Landmarks and Aids:

Refer to Forms 567, pages 17 and 18, this report.

38. Control for Future Surveys:

Stations are listed under side-heading 49, next page.

39. Junctions:

All junctions are in agreement, to the north with T-8057 and T-8058 of the same project, to the south with T-9232 and T-9233 of a contemporary project, while to the east and west no junctioning was possible.

40. Horizontal and Vertical Accuracy:

Assuming the radial plot to be of standard accuracy, the horizontal accuracy of the completed compilation meets the requirements for maps of 1:20,000 scale. As for vetical accuracy, the basic elevations were a bit erratic and needed selecting during contouring, but a result was obtained that is considered to meet standards for a 50ft contour interval.

46. Comparison with Existing Maps:

No large scale maps have ever before been compiled of this area.

47. Comparison with Nautical Charts:

The largest scale chart of this area is NO.9103, KUSKOKWIM BAY at 1:200,000, which is too small a scale for comparison purposes.

48. Geographic Name List: See page 21.

49. Notes for the Hydrographer:

See separate unnumbered page which follows page 21.

50. Compilation Office Review: See form T-2, page 22.

Submitted by:

Orvis N. Dalbey

Orvis N. Dalbey, Chief,
9-lens Compilation Section.

Forwarded by:

Louis J. Reed

Louis J. Reed, Chief
Stereoscopic Mapping Branch
Photogrammetric Engineer

GEOGRAPHIC NAMES

Survey No.

T-8072 & 73

| 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-8072 | | | | | | | | | | 1 |
| GOODNEWS BAY | | | | | | | | | | 2 |
| BELUGA HILL | | | | | | | | | | 3 |
| ~~BIG LAKE~~ Nanvakfak Lake | | | | | | | | | | |
| KUSKOKWIM BAY | | | | | | | | | | 4 |
| NORTH SPIT | | | | | | | | | | |
| SOUTH SPIT | | | | | | | | | | 5 |
| PLATINUM | | | | | | | | | | |
| SMALLS ~~RIVER~~ Creek | | | | | | | | | | 6 |
| TUNDRA CREEK | | | | | | | | | | |
| | | | | Names approved 5-11-53 L.H. | | | | | | 7 |
| | | | | | | | | | | 8 |
| | | | | | | | | | | 9 |
| T-8073 | | | | | | | | | | 10 |
| ~~CARTER HILL~~ Crater Hill | | | | | | | | | | |
| FLAT MOUNTAIN | | | | | | | | | | 11 |
| GOODNEWS | | | | | | | | | | 12 |
| GOODNEWS BAY | | | | | | | | | | |
| GOODNEWS RIVER | | | | | | | | | | 13 |
| PUYULIK CREEK | | | | | | | | | | 14 |
| PUYULIK MTS | | | | | | | | | | |
| PYRAMID MTS | | | | | | | | | | 15 |
| SOUTH FORK | | | | | | | | | | |
| TUNDRA CREEK | | | | | | | | | | 16 |
| UFIGAG CREEK | | | | | | | | | | |
| Knight Mt. | | | | Names approved 5-11-53 L.H. | | | | | | 17 |
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49. Notes for the Hydrographer.

## T-8072

a. Topo Stations:

ALUM 1949; see form 524 and photo 23162G
BOAT 1949; " " " " " 23162G
BRAT 1949; " 23162F
BUZZ 1949; " 42 2 V5
FACE 1949; " 42 2 V4
HOPE 1949; " 23162F
LUMP 1949; Could not be positioned by radial plot
NEWS 1938; Not shown on manuscript - too congested
ZINC 1949; see form 524 and photo 23162G and 42 2 R5
WOLD 1938; See CONTROL STATION IDENTIFICATION card, 23162H
E-W Range, Front: See form 524 and photo 23162G
E-W Range, Rear : " " 23162G
NE-SW Range, Front: See form 524 and photo 23162G
NE-SW Range, Rear : " " 23162G

b. Hydro Stations:

7201, 02, 03, 04, 05, and, 06. see p. 13

## T-8073

a. Topo Stations:

EDGE 1949; see form 524 and photo 42 2 R8
FISH 1949; " " 42 2 V9
MUCK 1949; " " 42 2 R7
CRAM 1949; Disk exists but could not be plotted.

b. Hydro Stations: None

Form T-2

# PHOTOGRAMMETRIC OFFICE REVIEW

T- 8072 & 73

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 ✓

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

✓ = checked
N = non-existant

## ALONGSHORE AREAS

(Nautical Chart Data)

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

## 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 ✓

## 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 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
Topographic Maps T-8072 and T-8073
6 May 1955

62. Comparison with Registered Surveys:

No previous survey covers this area.

63. Comparison with Maps of Other Agencies:

USGS Goodnews, 1:250,000, 1951 (Reconn.)

The manuscripts are in general agreement with the quadrangle.

64. Comparison with Contemporary Hydrographic Surveys:

There is no recent hydrographic survey for this area. The latest is H-6317, 1938.

65. Comparison with Nautical Charts:

9103 1:200,000 1916, corr. October 1950

T-8072 and T-8073 supersedes the chart for shoreline and planimetry in their common areas.

66. Accuracy:

These maps comply with project instructions and meet the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED BY:

L C Lundy
Chief, Review Section I
Photogrammetry Division

Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division

# NAUTICAL CHARTS BRANCH

SURVEY NO. T. 8072

## Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|---|---|---|---|
| 1958 | 9103 | L.S.S. | ~~Before~~ After Verification and Review 3116 |
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

# NAUTICAL CHARTS BRANCH

SURVEY NO. T.8073

## Record of Application to Charts

| DATE | CHART | CARTOGRAPHER | REMARKS |
|---|---|---|---|
| 1958 | 9103 | L.S.S. | ~~Before~~ After Verification and Review SMA |
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.