

4632

Form 504
Ed. June, 1928
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director U. S. COAST & GEODETIC SURVEY
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State: Alaska

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DESCRIPTIVE REPORT

Topographic
Hydrographic

Sheet No.
#F

4632

LOCALITY

Behm Canal

Rudyard Bay

1931

CHIEF OF PARTY

F. L. Peacock

DESCRIPTIVE REPORT

TO ACCOMPANY SHEET "F"

RUDYERD BAY, BEHM CANAL, S. E. ALASKA

SEASON 1931.

FRED. L. PEACOCK, H. & G. ENGR.,

CHIEF OF PARTY.

DESCRIPTIVE REPORT

TO ACCOMPANY SHEET "F"

RUDYERD BAY, BEHM CANAL, S. E. ALASKA.

SCALE: 1:20,000.

INSTRUCTIONS: Dated March 24, 1931.

The area covered by this sheet includes all of Rudyerd Bay, except the first one and a half miles at its entrance, where it joins Behm Canal.

The general aspect of the shore in Rudyerd Bay, is rocky and bold, with several steep, often vertical grey and brown cliffs rising sheer from the water's edge to heights in excess of one thousand feet, with deep water at the base. The tops of the hills are in general rounded and extend above the timber line to heights between three and four thousand feet, snow-covered except in summer.

LANDMARKS: There are so many bare and conspicuous cliffs in this area that any descriptions or list of positions of them would confuse the navigator instead of aiding him. The points and indentations as shown on the sheet are easily recognizable, and present no navigational difficulties.

CONTROL: Twenty-two stations of the 1931 scheme of triangulation for Rudyerd Bay are included in the area covered by this sheet. All of these stations were used for control of the topography. In addition, thirty-three hydrographic stations were established by the topographer and used in three supplementary schemes of planetable triangulation, as follows: six stations in the Punchbowl (Southwest corner of sheet); thirteen stations in the South Arm (Southeast part of sheet); fourteen stations in the North Arm (Northeast part of sheet, extension in Northwest corner). These schemes gave adequate control without the use of any traverse. The positions of these stations are in the list of planetable positions.

DISCREPANCIES: Upon comparing the 1931 survey of Rudyerd Bay with that of 1891, the two were found to disagree in both latitude and longitude, in the following manner: the new survey places all features about 285 meters North and about 855 meters East of their old positions.

This is considered to be due to the difference in the datums used in the old and new schemes of triangulation in the region.

FORM LINES: A few elevations were determined by standard methods, but no form lines were drawn on account of the lack of time available near the close of the season.

Respectfully submitted,

Roger C. Rowse

Roger C. Rowse,
H. & G. Engr.,
C. & G. Survey.

APPROVED:

F. H. Hardy

F. H. Hardy,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

LIST OF PLANETABLE POSITIONS.

<u>STATION</u>	<u>LATITUDE</u>			<u>LONGITUDE</u>		
	o	'	m.	o	'	m.
Bank	55	33	824	130	47	893
Chat	55	32	1679	130	48	408
Drop	55	32	1642	130	47	172
Each	55	32	88	130	47	1000
Firm	55	32	194	130	46	784
Gran	55	31	971	130	46	580
Ace	55	34	32	130	41	51
Box	55	35	1269	130	42	181
Cut	55	35	427	130	41	289
Deb	55	34	761	130	41	298
Epo	55	36	1765	130	42	327
Fly	55	34	322	130	41	126
Gas	55	33	954	130	40	750
Har	55	33	320	130	40	611
Ike	55	33	522	130	40	406
Jix	55	33	1249	130	40	425
Kid	55	34	1330	130	41	566
Lug	55	34	194	130	40	608
Mat	55	34	1035	130	40	831
Nig	55	34	1818	130	41	146
Oat	55	36	1520	130	41	697
Pip	55	37	740	130	41	906
Rot	55	37	1070	130	42	382
Sun	55	37	1116	130	41	1000

<u>STATION</u>	<u>LATITUDE</u>			<u>LONGITUDE</u>		
	o	'	m.	o	'	m.
Tik	55	38	214	130	42	160
Use	55	37	1622	130	41	831
Van	55	38	503	130	41	386
Web	55	38	429	130	41	837
Yap	55	38	720	130	40	968
Zev	55	38	843	130	40	580
Art	55	38	366	130	40	430
Bit	55	38	1424	130	38	676
Cod	55	39	438	130	39	414

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4632

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "F"

REGISTER NO. 4632

State Alaska

General Locality Behm Canal

Locality Rudyerd Bay

Scale 1:20,000 Date of survey Aug. 4 - Sept. 26, 1931.

Vessel EXPLORER

Chief of Party Fred. L. Peacock

Surveyed by Roger C. Rowse

Inked by Roger C. Rowse

Heights in feet above M.H.W. to ground to tops of trees

~~Contour, Approximate contour, Form line interval~~ feet

Instructions dated March 24, 1931.

Remarks: