

4510

Form 504	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
C. & G. SURVEY L. & A. APR 16 1930	
State: ALASKA	Acc. No.
11-5013	
DESCRIPTIVE REPORT.	
C	
Topographic Sheet No.	4510
LOCALITY:	
S. E. ALASKA	
WRANGELL NARROWS	
VIC. OF BEECHER PASS	
79 1929	
CHIEF OF PARTY:	
E. V. Eickelberg	

DESCRIPTIVE REPORT  
TO ACCOMPANY SHEET "C"

BEECHER PASS

AUTHORITY:  
February 19th, 1929.

Director's Instructions dated

LIMITS: The Southern end of this survey begins at a point 400 meters East-North-East of Point Lockwood, Latitude  $56^{\circ} 33.5'$ , Longitude  $132^{\circ} 57.3'$ , extending Northward to Latitude  $56^{\circ} 37.2'$ , and westward to Longitude  $133^{\circ} 04.4'$ .

GENERAL DESCRIPTION: The shoreline between high and low water is composed mostly of boulders and gravel, with mud and sand in some places, clearly indicated on the sheet. Back of the high water line the ground is heavily wooded, with trees growing very close to the water's edge, except in some few places as shown on the sheet, where there is a small expanse of grassy land.

LAND MARKS: All stationary Aids to Navigation were located by triangulation with one exception; the beacon on the north-western end of Woewodski Island was located by plane table and is listed as a signal for use in hydrography. The above mentioned Aids include beacons and lights. Buoys were located by plane table, and were not inked in. On this sheet, there were three buoys, all in Wrangell Narrows, just east of Keene Island. Their locations are given in the accompanying list of signals.

CONTROL: The control for this sheet was furnished by triangulation stations of the U. S. Engineers, and the U.S.C. & G.S. The Aids to Navigation were also cut in by plane table, but were not used as control for this survey.

SURVEY METHODS: The survey was completed by regular plane table methods. Shore line run in by rod readings, offlying features located and noted on the sheet. Signals used in hydrography were located by three or more cuts, or by rod readings. Control was plentiful, allowing a complete check on each traverse. There were no discrepancies.

In Wrangell Narrows, the survey was revision. The high water line was run in by regular plane table methods, and all changes noted. The original shore line as shown by photostat # 3111, was left on the sheet in pencil.

Form lines were checked in Wrangell Narrows, and with a few additional elevations, were transferred as found on photostat # 3111.

The form lines in Woewodski Island were completed to the westward from a junction with photostat # 3111.

The curves of equal elevation are given for every 50 feet, and refer to Mean High Water.

CHANGES IN REVISION SURVEY: At station HEL the shore line of the present survey shows a building out of the previous survey of approximately 28 meters.

Just east of Keene Island Beacon, the shoreline shows a building out of approximately 20 meters.

In the vicinity of triangulation stations BON, 54, and station DORT, the shore line has built out. In each case the shore line of the present survey has built out beyond the shore line of the previous survey. These changes are possible, due to the boulder strewn condition of the shore line, and could have been washed there by passing steamers.

Near station WAL, the change is quite evidently due to loss of azimuth during the previous survey. In this vicinity, during the present survey, there was rigid control in the near vicinity, and the change doubly checked.

MAGNETICS: Magnetic observations were made at triangulation station 64, 57, 51, BLY and FAIR, with a plane table declinoire. A comparison was made by observations obtained with a compass declinometer at triangulation station 57, BLY, and FAIR. The index correction to the declinoire was computed and noted on the sheet.

RANGES: A range is shown in pencil on the sheet - a line just north of station DED, drawn in a north-westerly direction through the most north-easterly tree on the small island, south-west of Keene Island, and a small distinct tree top, showing as a knob with a cone shaped tree on each side of it. This range served in taking the EXPLORER from Wrangell Narrows into Beecher Pass.

PLANE TABLE POSITIONS: A list of objects with a short description located for use in hydrography is submitted with this report.

Respectfully submitted,

*Leonard C. Johnson*

Leonard C. Johnson,  
Jr. Hydrographic & Geodetic Engr.

STATISTICS

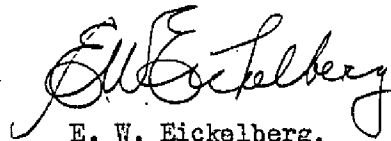
TO ACCOMPANY DESCRIPTIVE REPORT OF SHEET "C"

BEECHER PASS

Area surveyed in square statute miles (approximately) .....	12.0
Length of shore line in statute miles.....	30.0
Length of low water line in statute miles.....	18.0
Length of shore line of rivers in statute miles.....	0.0
Length of shore line of creeks in statute miles.....	0.0
Length of shore line of ponds in statute miles.....	0.0
Length of roads in statute miles.....	0.0
Scale of Sheet "C", Beecher Pass.....	1:10,000

APPROVAL SHEET  
TO ACCOMPANY SHEET "C"  
BEECHER PASS, ALASKA.

Sheet has been examined and is approved. The range for entering Beecher Pass described, can not be definitely described, and the passage is very narrow, but can be used with local knowledge.

  
E. W. Eickelberg,  
Chief of Party, C. & G. S.

## LIST OF SIGNALS

TO ACCOMPANY DESCRIPTIVE REPORT OF SHEET "C"

BEECHER PASS, ALASKA

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
			(825)		(916)
BIM	W. W. Boulder	56° 36'	1031	132° 58'	108
			(212)		(159)
PIL	Piling	56 36	1644	132 57	865
			(---)		(818)
SAP	Rag on bush.	56 37	234	132 58	205
			(102)		(401)
BAN	Banner.	56 36	1754	132 58	623
			(179)		(321)
TRU	Rag on stick	56 36	1677	132 58	703
			(330)		(209)
BOG	Whitewash	56 36	1526	132 58	815
			(462)		(1024)
LE	Rag on stick	56 36	1394	132 59	0
			(486)		(932)
EL	Banner on tree	56 36	1370	132 59	92
			(492)		(871)
PO	Cloth on bush	56 36	1364	132 59	153
			(462)		(756)
STAR	Rag on bush	56 36	1394	132 59	368
			(282)		(605)
GIB	Rag on tree	56 36	1574	132 59	419
			(507)		(497)
NASH	Banner	56 36	1349	132 59	527
			(777)		(299)
RES	Rag on bush	56 36	1079	132 59	725
			(1291)		( 57)
LOCO	Whitewash	56 36	565	132 59	967
			(1270)		(989)
FORD	Banner in tree	56 36	586	133 00	35
			(1483)		(732)
ATE	Dressed tripod	56 36	373	133 00	292
			(967)		( 69)
HAD	Whitewashed boulder	56 36	889	132 58	955
			(1011)		(813)
CHEV	Banner	56 36	845	132 59	211
			(1153)		(925)
BUK	Rag on tree	56 36	703	132 59	99
			(1784)		(486)
EX	W. W. boulder	56 36	72	132 59	538
			(1422)		(754)
LAC	Fox sign	56 36	454	132 59	270
			(1500)		(254)
SET	Whitewash	56 36	356	132 58	770
			(978)		(824)
GAB	Gable of small house.	56 36	878	132 59	200

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NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
BEG	Fox sign (low)	56° 36'	(1689) 167	133° 00'	(593) 431
GID	Banner	56 35	(572) 1284	132 58	(730) 294
FLA	Flag	56 35	(936) 920	132 58	(166) 858
IN	Banner on bush	56 35	(1022) 834	132 59	(861) 163
TAF	Whitewash	56 35	(996) 860	132 58	(844) 180
FAT	Whitewash	56 35	(1337) 519	132 58	(868) 156
ON	Whitewash	56 35	(1204) 652	132 58	(463) 561
BIG	W. W. boulder	56 34	(917) 939	132 58	(975) 49
HEL		56 34	(730) 1126	132 58	(331) 693
MAR	Whitewash	56 34	(1006) 850	132 58	(384) 641
SAM	Whitewash	56 34	(1319) 537	132 57	(125) 900
CAP	Rag in tree	56 34	(1391) 465	132 58	(898) 126
HIL		56 34	(1514) 342	132 57	(241) 784
JAP	White rag	56 34	(1811) 45	132 58	(672) 352
HUS	Banner	56 33	(275) ---	132 57	(646) 379
BEN	Whitewash	56 33	(615) ---	132 57	(633) 392
WAGE	Fox sign (high)	56 35	(1042) 814	133 03	(980) 44
SAM	Fox sign	56 35	(970) 886	133 02	(476) 548
OAK	Fox sign	56 35	(903) 953	133 02	(692) 332
NAT	Fox sign (high)	56 35	(817) 1039	133 02	(931) 93
JAB	Fox sign on house	56 35	(680) 1176	133 02	(896) 128
TUD	Fox sign (low)	56 35	(513) 1343	133 02	(695) 329
FIT	Fox sign (low)	56 35	(451) 1405	133 02	(393) 631
BAD	W. W. boulder	56 35	(440) 1416	133 02	(306) 718
IMP	Banner on reef	56 35	(325) 1531	133 02	(127) 897
HAT	Fox sign (low)	56 35	(510) 1346	133 02	( 48) 976

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
SLO	Fox sign (high)	56° 35'	(555) 1301	133° 03'	(744) 280
VIM	W. W. boulder	56 35	(532) 1324	133 03	(638) 386
CAD	Pole and rag	56 35	(596) 1260	133 03	(483) 541
DOC	Fox sign	56 35	(730) 1126	133 03	(357) 667
RUT	Fox sign	56 36	(1552) 304	133 02	(299) 725
SAP	Whitewashed cliff	56 36	(1542) 314	133 02	(527) 497
PUN	Fox sign (high)	56 36	(1543) 313	133 02	(533) 491
TIT	Whitewashed pole	56 35	( 93) 1763	133 02	(410) 614
WON	Whitewash	56 36	(1607) 249	133 02	(960) 64
CAL	Top of dead tree	56 36	(1664) 192	133 02	(934) 90
NET	W. W. boulder	56 36	(1758) 98	133 02	(933) 91
UKE	Fox sign (high)	56 36	(1725) 131	133 01	( 87) 937
MOB	Fox sign (high)	56 36	(1678) 178	133 01	(259) 765
NIX	Fox sign (high)	56 36	(1767) 89	133 01	(252) 772
KEN	Signal banner	56 36	(1626) 230	133 01	(365) 659
JOG	Fox sign (low)	56 36	(1530) 326	133 01	(611) 413
VET	W. W. boulder	56 36	(1485) 371	133 01	(399) 625
TON	W. W. ledge	56 36	(1336) 520	133 01	(286) 738
YEG	W. W. boulder	56 36	(450) 1406	133 02	(868) 156
SIN	Rag on tree	56 36	(768) 1088	133 01	(107) 917
UMP	Banner on bush	56 36	(989) 867	133 01	(383) 641
HAM	W. W. boulder	56 36	(1310) 546	133 01	(573) 451
FOT	W. W. boulder	56 36	(1327) 529	133 01	(947) 77
EYE	Fox sign (low)	56 36	(1548) 308	133 00	( 78) 946
DEDE	W. W. boulder	56 36	(1410) 446	133 00	(232) 792
CUD	W. W. boulder	56 36	(1467) 389	133 00	(430) 594



NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
			( 37)		(536)
WAX	Fox sign (high)	56° 35'	1819	133° 00'	488
			(223)		(222)
CAT	Fox sign	56 35	1633	133 00	802
			(269)		( 40)
KOW	Whitewashed house	56 35	1587	133 00	984
			(175)		(610)
EGG	W. W. boulder	56 35	1681	133 01	414
			(492)		(681)
TIP	Whitewashed root	56 35	1364	133 01	343
			(493)		(518)
WET	Pole and flag	56 35	1363	133 01	506
			(406)		(393)
JEFF	Fox sign	56 35	1450	133 01	631
			(167)		(120)
TAG	W. W. boulder	56 35	1689	133 01	904
			(800)		( 49)
FOXY	Banner on reef	56 35	1256	133 01	975
			(1000)		( 24)
YID	Banner on reef	56 35	856	133 01	1000
			(637)		(466)
PORT	W. W. boulder	56 35	1219	132 59	558
			(655)		(180)
YUP	W. W. boulder	56 35	1201	132 59	844
			(906)		(116)
WAL	Signal banner	56 35	950	133 00	908
			(971)		(630)
GEM	W. W. boulder	56 35	885	133 01	394
			(994)		(355)
TAN	Signal banner	56 35	862	133 01	669
			(1126)		(221)
ROB	Rag on pole	56 35	730	133 01	803
			(1260)		(294)
LEG	Rag on bush	56 35	596	133 01	730
			(1268)		(145)
CAPE	Rag on bush	56 35	588	133 01	879
			(1524)		(937)
PAT	Rag on bush	56 35	332	133 02	87
			(1637)		(139)
MEG	Boulder	56 35	219	133 01	885
			(1764)		(705)
DOT	Rag on bush	56 35	92	133 02	319
			(1702)		( 32)
TUB	Small house gable	56 35	154	133 02	992
			( 53)		(567)
NOT	W. W. boulder	56 34	1803	133 03	457
			(185)		(631)
GUS	Rag on bush	56 34	1671	133 03	393
			(375)		(639)
GET	Signal banner	56 34	1481	133 03	385
			(247)		(201)
PAM	Whitewashed cliff	56 34	1609	133 03	823
			(339)		( 64)
MAD	Pole with flag	56 34	1516	133 03	960

NAME	DESCRIPTION	LAT.	D.M. METERS	LONG.	D.P. METERS
CAPE	W. W. boulder	56° 34'	(386) 1470	133° 04'	(830) 194
TAP	Fox sign	56 35	(1053) 803	133 03	(441) 583
SAW	W. W. ledge	56 35	(1018) 838	133 03	(389) 635
LEO	Fox sign (high)	56 35	(1107) 749	133 03	(586) 438
FIG	Fox sign (low)	56 35	(1109) 747	133 03	(770) 254
HAH	Smoke pipe on house	56 34	(1643) 213	133 04	(919) 105
GABE	Gable of mine stamp building	56 34	(1654) 202	133 04	(1006) 18
BENT	Bn. Woewodski Island	56 34	(370) 1486	133 04	(662) 362
	Red buoy N.E. of entrance to Beecher Pass, in Wrangell Narrows	56 35	(187) 1669	132 58	(513) 511
	Nun buoy east of south end of Keene Island.	56 35	( 65) 1791	132 58	(439) 585
	Can buoy east of south end of Keene Island	56 36	(1840) 16	132 58	(534) 690
OIL	Samll house	56 36	(811) 1045	132 58	(616) 408
DED	Dead tree	56 35	(1510) 346	132 58	(879) 145
FOX	Fox sign	56 36	(1693) 163	132 58	( 92) 932
TIS	Tide staff	56 35	(416) 1440	132 59	(645) 379

Titled.

Form 537a  
11-5813

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO. 4510

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. "C"

REGISTER NO. 4510

State ALASKA

General locality WRANGELL NARROWS, S. P. ALASKA

Vicinity of Beecher Pass

Locality PART OF WRANGELL NARROWS - BEECHER PASS

Scale 1:10,000 Date of survey August - September 1929

Vessel EXPLORER

Chief of Party E. W. Eickelberg

Surveyed by L. C. JOHNSON

Inked by L. C. JOHNSON

Heights in feet above high water to ground ~~to tops of rocks~~

~~Contours, approximate contour~~, Form line interval 50 feet

Instructions dated February 19th, 1929

Remarks:

GPO

94  
95  
96