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C. & G. SURVEY
L. & A.
FEB 28 1916
Acc. No.

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: _____

11-5613

DESCRIPTIVE REPORT.

Top. Sheet No. *3562.*

LOCALITY:

191

CHIEF OF PARTY:

3562

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
E. LESTER JONES, SUPERINTENDENT

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DESCRIPTIVE REPORT

To accompany

TOPOGRAPHIC SHEET

OF the

BENDEL & TURNER ISLANDS,

SHUMAGIN ISLANDS, SOUTHWEST ALASKA.

Surveyed during August, September & October, 1915.

Scale:- 1/20,000

Party of U. S. J. Patterson,

H. B. Denson, Ass't., Commanding

I. E. Dailey, Ass't., Topographer for contours Bendel Id.

M. O. Nelson, Aid, Topographer -shoreline Bendel Id.

M. E. Levy, Aid, Topographer -shoreline Turner Id.

R. J. Auld, Aid, Topographer -shoreline Turner Id.
& contours Turner Id.

Sheet # 1
Number of Sheets is

T-3562

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET OF BENDEL AND TURNER ISLANDS, SHUMAGIN ISLANDS, SOUTHWEST ALASKA.

LIMITS. Both Bendel and Turner Islands are included between Lat. N. 55°-00' & 55°-06', & Long. W. 159°-45' & 159°-52'.

GENERAL DESCRIPTION OF COAST. The shoreline of Bendel Island, the northern one of the two islands, may be said to be an alternation of rocky points and shallow bights with boulder beaches. The points are usually the bold cliff-faced terminations of the mountain and hill ridges; with the bights forming the valley bases. The shore-cliffs to the N'ard of the E x W elongation of the island, rarely exceed 500 ft. in height, while the S outhern shore offers several shore cliffs exceeding 600 ft., the one in the center being 1 250 ft. The southern shore and southwest promontory present a very rugged appearance, and awash and HW rocks abound to a distance of 200 meters offshore.

OUTLYING DANGERS. By holding 300 meters offshore all rocks may be cleared, altho the kelp patches extend out as far as 1/4 mile offshore. The most prominent offshore rock is that one on the Southeast tangent of Bendel Id.

GENERAL DESCRIPTION OF COAST OF TURNER ISLAND. The shoreline of Turner Island is characterized by the precipitousness of its shore cliffs, which form a solid wall of rock along the south and southwest shore. In general the drainage slopes are toward the Northeast, so that there are three shallow bights along the East shore, with boulder beaches. Numerous awash and H W rocks lie offshore and extend out as far as 400 meters. Small-boat landings may be made safely during the daytime nearly anywhere when the weather is reasonable.

OUTLYING DANGERS. By holding 400 meters offshore all rocks may be cleared. Frequent kelp patches indicate the distance to be held offshore.

ANCHORAGES. There are no anchorages on either of these islands.

SURVEY METHODS. The usual type of Coast Survey Plane Table Outfit was used exclusively. The shoreline of Bendel Island from signal "Jar" running E & S was traversed to tri. signal "Wet", on a piece of backed brown paper, and later transferred to the smooth sheet. This was done because the shoreline ran off the original topographic sheet, and the Bendel-Turner topographic sheet was not available until later.

The shoreline of Turner Island was mainly traversed, and since the traverses were not tied in at the southern extremity there is a possibility of some little error in the shoreline. The closure was prevented by weather conditions which made it advisable for the ship to leave the working grounds a few days earlier than had been planned.

M. O. Nelson
Aid. C. & H.

Statistics.

	Turner	Bendel	Total
Area, square statute miles	2.2	4.0	6.2
Shore line " "	9.0	10.5	19.5
Rivers, creeks " "	1.4	3.1	4.5
Lakes, ponds " "	1.5	1.6	3.1
Number Top. Stations	23	30	53
Top. Signals Located	24	23	47
Number Elevations determined	38	40	78

Plane Table Positions

<u>Object and description</u>	<u>Lat.</u>	<u>D.M.</u>	<u>Long.</u>	<u>D.P.</u>	<u>Height</u>	<u>Remarks</u>
<u>BENDEL ISLAND</u>						
HW Rock on N-Pt. Tan	55°05'	1351	159°47'	493	12	Top
HW " "		629	46	421	10	Top
HW " "		412		105	25	Top of Inner Rock
Double Arched Rock	04	400	45	222	40	Seaward Tangent
Guano cov'd Rock 200 m. off SE Tan. Bendel Island		15	44	1060	02	Top
Off Rock	03	1570	46	220	10	Top
" "		1340	47	829	15	Top
" "		1695	48	785	12	Top
" "	04	256	49	755	10	Highest Point
" "		758		775	15	" "
Pinnacle Rock		1170		621	25	" "
Tri. Pin. on Point	05	728	48	1060	10	" "
<u>TURNER ISLAND</u>						
Triangular Pinnacle Δ Tal	55°02'	1012	159°51'	578	55	
Pinnacle Rock off shore	01	955	50	802	40	
" " " "	00	1487	50	05	35	H.p. highest pin. in group.
Rock off shore	01	130	48	692	07	Flat top c.p.
Pinnacle Rock off shore	01	1290	48	685	167	H.p.
" " " "	02	400	49	471	85	" pinnacle

Applied to compilation 8859 Dec. 1942 J.M.A.