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D	EPARTMENT OF COMMERCE
[U. S. COAST AND GEODETIC SURVEY
{	, Director
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a. .	
State	e:Washington
	DESCRIPTIVE REPORT
Topo	graphic E
Hydro	graphic Sheet No. 4450
	LOCALITY
Wε	est Coast
_	_
<u>V</u>	ape Johnson
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	I I
•	CHIEF OF PARTY
•	CHIEF OF PARTY R. D. Horn e

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C. & G. SURVEY L. & A. OCT 31 1929 Acc. No.

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DESCRIPTIVE REPORT TO ACCOMPANY SH	EET "E"
_CAPE_JOHNSON_TO_OZETTE	
Party of R.D. Horne, Instructions	_dated May 16,1929
Scale 1:20,000	
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DESCRIPTIVE REPORT TO ACCOMPANY SHEET "E"

CAPE JOHNSON TO OZETTE

Party of R.D. Horne, Instructions dated May 16,1929, Scale 1:20000

GENERAL DESCRIPTION:

The bluff rises sharply from the high water line, and is heavily wooded except for one or two places where slides have bared the spope.

A small rocky beach along the base of the bluff permits passage on foot at nearly all stages of the tide, altho at a few places the bluff rises too steeply, and the rocks at the base are not numerous enough to permit passage at high water.

The area inside of the outer reef-like rocks is foul, and at low tide numerous small rocks are visible.

SURVEY METHODS:

A traverse was started from a three point fix on the rocky ledge below signal John, and checked in at signal Walk with a five meter error. Cuts were taken to off-lying rocks, and all features were located to within several hundred meters of Walk.

Respectfully forwarded,

Roland D. Horne, Chief of Party.

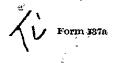
Gilbert R. Fish, Topographer

Respectfully submitted,

Aid, C.& G.Survey.

SHEET "E"
PLANE-TABLE POSITIONS

	ct & Description	Lat.	D?M.	Long.	D.P.	Height	Remarks	
Bot	Face of point	47-59	1164	124-40	710	10'	٠.	
Ann	Rock	47- 59	926	124-40	1137	52	Top	
Mil	Boulder on beach	47-59	803	124-40	5 34	8		
Sma	Rock, small	47-59	460	124-40	436	6		
Rol	Rock	47-58	1738	124-40	368	59	Top	
Wif	Rock, green	47-58	1416	124-40	328	62,-	Top	
Cop	Face of bluff at small rky.point	47- 58	853	124-40	523	13		
Gee	Face of bluff at corner	47-58	171	124-40	683	1 5		
Hump	R ock	47-58	208	124-40	1183	127	Highest pt	t.



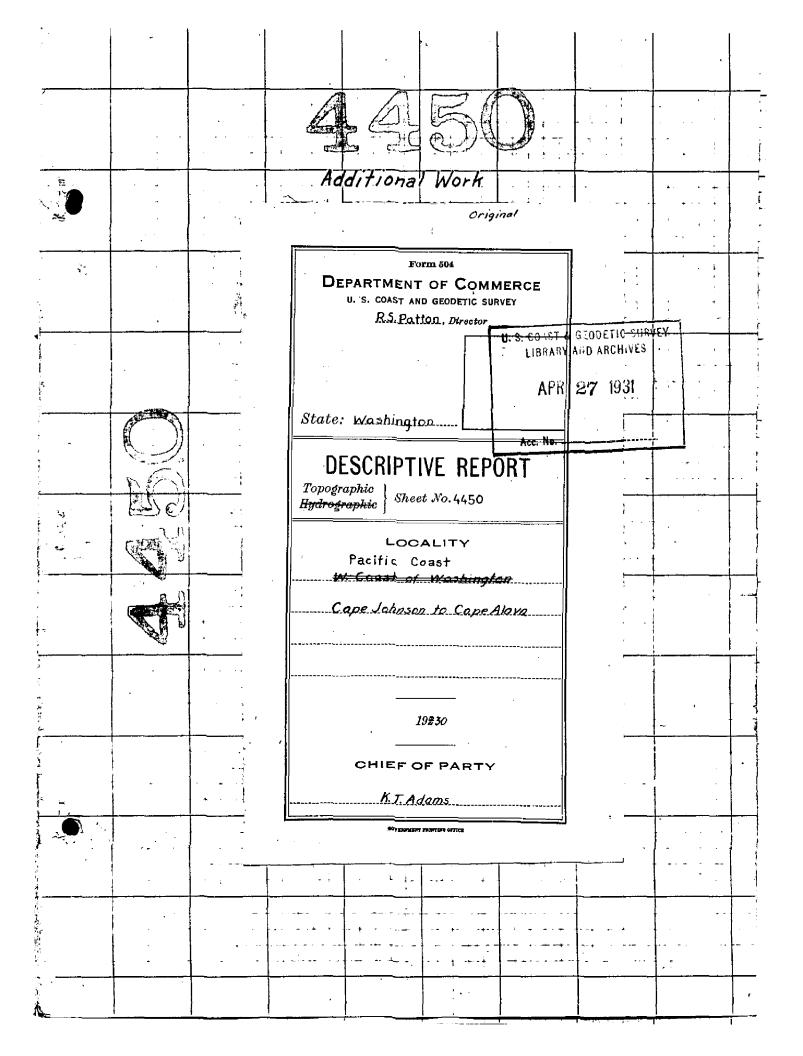
DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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 Letter
REGISTER NO. 4450
state Washington
General locality Olympia Peninsular West Coast.
Locality Cape Johnson to Ozzette to
Scale /20,000 Date of survey October, 1929
Vessel
Chief of Party Roland D. Horne
Surveyed by Gilbert 17. Fish
Inked by
Heights in feet above 1/W to ground to tops of trees
Contour Approximate contour Form line interval 20 feet
Instructions dated May 16, 1929
Remarks: Incomplete (2 miles shoreline finished)
D. B. GOVERNMENT PRINTING OFFICE: 1926



DESCRIPTIVE REPORT to accompany Topographic Sheet No. 4450 Scale 1:20,000

Cape Johnson to Cape Alava, Washington.

Date of Instructions:

April 16, 1930.

Date of Survey:

August 21 - October 11, 1930.

Chief of Party:

K. T. Adams, H & G Engineer.

Topographer:

G. R. Fish-1929; A. N. Stewart-1930.

LIMITS: This sheet includes the shore line and off-lying rocks from Cape Johnson, Latitude 47°- 58', to Bodelteh Islets or Cape Alava, Latitude 48°- 11'.

The topography from the southern limit to station Walk was done in 1929 by G. R. Fish, and the remainder in 1930 by A.N. Stewart.

This report covers the work done in 1930.

CONTROL: The control consists of triangulation stations established by R. D. Horne in 1929 and by K. T. Adams in 1930. These are at intervals of one to four miles along the coast. Two first order stations established in 1913 on Carroll and Ozette Islands were used. During the season of 1930 several prominent rocks were located by triangulation, and a marked station was established on Umatilla Reef.

METHODS: The survey was made from camp at intervals along the coast, the party working in each direction from camp as far as practicable.

The entire coast line was surveyed by traversing from one triangulation station to the next, the hydrographic signals being built and located at the same time.

The traverse errors were as follows:
From Walk to Hid, 6 meters, which was adjusted proportionaly.

From Hid to Face, 2 meters, not adjusted.

From Face to Sand, 40 meters. This was adjusted by cutting in, from three places, the signals and rocks located at intervals of a half mile along the coast while running the traverse. These cuts were obtained from station Sand, from a rock a half mile south of Sand, and from the ship. On the rock a three point fix was obtained on triangulation stations. Here a sextant and three arm steel protractor, both previously adjusted, were used. At the time the cuts were obtained from the ship she was lying dead in the water about three quarters of a mile north of Face and one and one half miles off shore. Three officers on the ship were reading angles simultaneously, two getting a three point fix on triangulation stations and a third the cut. Cuts obtained from the three places intersected very satisfactorily, and the shore line was adjusted to the new positions of the signals and rocks close inshore.

From Sand to Indian, No error. From Indian to Alava, No error.

Plane table set-ups were made on Jagged and Carroll Islands. The station on Umatilla reef was occupied and numerous cuts taken to aid in the location of the Bodelteh Islets.

The eastern shore of Ozette Island was located by establishing a number of whitewashes and cuttingthem in in connection with the traverse along the coast. On the north end of the island a position for a set-up was obtained by intersection and resection. From this point a traverse was run around the west side of the island and connected in to one of the points located from shore. The closing error here was two meters, left unadjusted.

The Bodelten Islets were located by numerous cuts and by rowing around the islets to sketch in the shore line.

STATISTICS: Statute miles of traverse: 15.2

Statute miles of shore line: 20.1 (3.1 additional

in 1929)

Working days: 13 Men in party: 4

GENERAL DESCRIPTION: In general the coast is rocky and irregular, but with no large indentations. The high water line and bluff line were largely coincident, and this was a factor in

slowing up the progress of the party. Nearly every day an hour or two was lost during the high tide and more time than that if there happened to be a rock point to get around. Marked set-ups were several times destroyed during high tide because of rocks rolling in the surf.

The low water line in most places lies at some distance off-shore. The area between high and low water lines is in general rocky. Sand beaches are found for a distance of about a mile on both sides of the point on which Hid is located, in the indentation between signals Stew and Big, southeast of Sand for one and one-third miles, north of Sand for a short distance, and around Cape Alava. Along the rocky stretches it was necessary to run the traverse outside the high water line. In such places it was often very difficult to get proper .cuts to off-lying low rocks and breakers on account of a heavy surf.

There are numerous rocks of varying height and rocks awash all along the coast out to a distance of one to two miles from the high water line. At the outer limits of these rocks are Jagged Island, Carroll Island, White Rock, Ozette Island, Bodelteh Islets, and Umatilla Reef. Of these, Carroll Island, Ozette Island, and the two highest of the Bodelteh Islets are wooded.

All the hills on shore visable from sea are heavily wooded and there is an almost impenetrable underorush. At times it was attempted to go through this brush in getting around a point at high tide. It was found next to impossible, even for a man carrying no load.

On that part of the sheet done by G. R. Fish no wooded sections are shown. However, it is known that it is wooded similarly to that north of it.

The form line interval used on shore is twenty reet. This is the interval with which the sheet was started in 1929. On the larger islands an interval of fifty feet has been used because of lack of space for twenty foot intervals.

A small amount of fine gold is round all along the coast, but not in paying quantities.

REMARKS: Close in to the eastern shore of Ozette Island there is a small anchorage used during the fishing season by small boats. There is room enough for about four boats. The channel leads in from the southern end of the island and is very narrow. The fishermen have planted no buoys as markers, but go through a lane, only a few feet wide, marked by thick kelp on both sides.

The wreck of the Austria shown on Chart No. 6265, near Wahyah Islet, has broken up and washed ashore. There are only a few remaining pieces. These are lying flat and half burried in sand and are hardly noticeable even to one walking along the shore.

The Ozette Indian village on Cape Alava has been practically abandoned and most of the shacks are falling apart. There are only two in use, and those, only part of the time. good trail leads from the village to Lake Ozette where there are a number of homesteaders. There are small boats in the lake and by crossing one can make connections with the bus lines on the highway. It was reported that during the summer months mail was taken twice a week from the Village to the lake, but this was unconfirmed.

The hydrographer found no indication of the breaker three-tenths of a mile North-White rock. At low water a total of six cuts with a very good intersection were obtained. breaker does not always show even at low water.

Mention might be made of the sand beach south of station Sand, on which airplaines have landed a few times on pleasure trips. This is possible only when the tide is comparatively low. At such times the beach is wide, almost flat, and hard.

Carroll Island, is sometimes locally called Keyhole Island, because of an arch through one corner. This is not visable from seaward.

Respectfully submitted,

a. Menton Stewart

A. Newton Stewart. Jr. H & G Engineer.

ANS/s

Forwarded, approved:

K. T. Adams,

Chief of Party,

Steamer GUIDE.

Plane Table Positions Sheet No.4450.

	Lat	itude	Longi	tude	•
Object	ο,	DM3s	0 ,	DP's	
			7	7	
Bald Id.	47-59	<u> 1597(256)</u>	124-41	935(309)	Outer peak, 299' bare.
Rock, top of		917(936)	124-43	442(802)	4', near Jagged Id. Topo Sig. TOP.
Carroll Id.		610(1243)	124-43	491(753)	225', highest part, wooded.
Rock, top of		349(1504)	124-43	407(837)	4',S. of Corroll Id. Topo Sig. CAN
Rock, top of	48_00	739(1114)	124_43	621(623)	134', N.W. of Carroll Id. Topo
	ļ			T	signal PAN.
Rock, top of	47-59	1379(474)	124-41	576(668)	183',SE of Bald Id., bare
Rock, " "	48-00	17(1836)	124-41	621(623)	90' NE of Bald Island.
TIOOM 1	48_00	258(1595)	124-40	1070(174)	83" Wooded, near WALK
	48_00	838(1015)	124-40	868(37 6)	99 . 1 Mi. NE of WALK, Topo, Sig. DOG
Dump, Mine	48-00	1664(189)	124-40	798(446)	Abandoned, Topo, Sig. DUMP
. Shack	48-00	1836(17)	124-40	825(419)	W. gable of Northern of two shacks
Doole to	1000	30501445		[Topo. Signal GAB
Rock, top of		1250(603)	124-42	62(1181)	1 Mi.NE of Carroll Island.
Rock " "	48-00	1319(534)	124-41	832(411)	4.
Troom	48-02	1308(545)	124-41	102(1141)	70' Topo, Signal DE
110043	48-03	244(1609)	124_41	412(831)	46 Topo. Signal ELF
1100#5	48-03	1635(218)	124-42	46(1196)	4'. Mi. NW of Face.
Rock," ".	48-04	140(1213)	124-41	821(421)	21*
₹ Rock,"	48-04	343(1510)	124-41	984(258)	40'
Rock, awash	48-04	1621(232)	124-42	721(521)	Bares 7' Low water, Topo. Sig. WEST
Rock,"	48-05	760(1093)	124-41	704(538)	15', S end of indentation.
Shack	48-05	1073(780)	124-41	268(973)	N. Gable
Rock, top of	48-06	747(1106)	124-41	720(521)	10'
Rock," "	48-06	521(1332)	124_41	721(520)	18'
Shack	48-07	440(1413)	124-41	1027(214)	Center of
Rock, top of	48-07	1100(753)	124-42	834(407)	on which SAND is located.
Rock," "	48-07	168(1685)	124_42	997(244)	Mi S. of SAND, high part of S.
					end approximately 25'.
	48-06	1060(793)	124-43	1188(53)	<u>l'</u>
Rock," "	48-07	814(1039)	124-43	1030(211)	Reef 2/3 Mi. S of White Rock, S
					of two highest'. 5'.
	48-07	928(925)	124-43	966(275)	Reef 2/3 Mi. S. of White Rock, N
of-two-higher	H	158(1695)	124-43	103(1038)	of two highest: 7'
Rock," "		4 5(1010)	124=42	654 (587)	18' (
Rock," "	48-08	43(1810)	124-42	654(587),	321
Rock," "	48-08	493(1360)	124-42	933(307)	68'
Rock," "	48-08	447(1406)	124-42	1050(190)	26†
Rock," "	48-08	506(1347)	124-42	1000(242)	20'
	48-08	816(1037)	124-43	215(1025)	52'
Rock," "	48-08	1021(832)	124-43	1225(15)	37 *
Rock," "	48-08	1106(747)	124-43	39(1201)	481
Rock," "	48-09	150(1703)	124-43	779(461)	63'
Clump of tree	s 48_10	656(1197)	124-44	854(386)	Center of SE Corner Ozette Id.

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	,\$					
	-	Latit	ude	Longitud		
Object		• •	DM's	0 1	DP's	
_Rock, to	of	48-09	1008(845)	124-45	290(950)	Topo. Sig. TIM.
Rock, 2	***	48-10	1065(788)	124-45	959(281)	141', Bodelteh Islets.
Rock,"	29	48-10	1374(479(124-46	298(942)	Center,4', off Bodelteh
Rock,"	17	48-10	1725(128)	124-44	575(665)	Islets, Topo. Sig. HI 3', Topo. Sig. FLAT, NE
Rock,"	Ħ	48-09	579(1274)	124-45	462(778)	Bodelteh Islets. NE of two Rks. W of
Rock,"	Ħ	49-09	497(1356)	124-45	520(720)	Ozette Island. SW of two Rks. We of
Rock,	17	48-01	281(1572)	124_40	1078(165)	Ozette Island. 68°. Topo Sig. RAT.
Rock,"	17	48-01	411(1442)	124-40	1093(150)	36', Topo.Sig. COW.

Topographic Sheet No. 4450.

List of Signala

Signal	Latitud	e DM•	Longitude	DP	Remarks
-	(0.0)	707 (7040)	304.40	200042003	9
Abe	48_01	791(1062)	124_40	1070(173)	<u> </u>
Art	48-04	354(1499)	124_41	992(250)	W.W.
Be	48 -9 1	1552(301)	124_40	1105(138)	Cloth banner
Big	48-06	111(1742)	124_41	538(703)	₩.
Blu	48-08	1745(108)	124_43	210(1032)	W. W.
Bode	48-10	1.091.6(759.6)	124_45	8256(4142)	Tall tree
* 3	1 1	_			Bodelteh Islets.
Cal	<u>4</u> 8≟00	987 (8 66)	124_40	769(475)	W.W.
. Can	48-00	349(1504)	124-43	407(837)	Top of Rock 4*
	İ				S. of Carroll Id.
Cat	48_00	692(1161)	124-43	419(825)	9.
Cow .	48-01	411(1442)	124_40	1093(150)	Top of Rock 36
De	48-02	1308 (545)	124-41	102(1141)	Top of Rock 70'
Dog	48-00	837(1016)	124_40	868(376)	Top of Rock 99'
Dump	48-00	1664(189)	124-40	798(446)	Mine dump, abandoned
Ear	47-59	1575(278)	124-41	1008(236)	W.W.
Elf	48-03	244(1609)	124_41	412(831)	Top of Rk. 46.
Fin	47=59	863(990)	124_43	814(430)	W.W.
Flat	48-10	1725(128)	124_44	575 (665)	Top of Rock 3'
Gab	48-00	1836(17)	124_40	825(419)	W. gable, N. of two
ر ال					shacks.
Ge	47-59	1642(211)	124_41	716(528)	W.W.
Gul	48-06	1249(604)	124_41	882(359)	Rock awash.
Hi	48-10	1374(479)	124_46	298(942)	Top of rock 4'
Hit	48-04	1254(599)	124_41	807(435)	Cloth Banner.
Pan	48-00	739(1114)	124_43	621(623)	134'Rk.N.W. Carrollid.
Rat	48-01	281(1572)	124_40	1078(165)	Top of rock 68*
See	48-02	884(969)	124_40	1196(47)	W.W.
Stew	48-05	279(1574)	124-41	823(419)	Cloth Banner
/ Tâm	48-09	1008(845)	124-45	290(950)	Top of Rk. near
	10-07				Ozette Island.
Toe	47-59	1129(724)	124-43	684(560)	W.W.
Тор	47-59	917(936)	124-43	442(802)	Top of 45Rk. near
105	71-07	241 (200)	101	220,000,	Jagged Island.
Wash	48_06·	1644(209)	124_41	713(528)	Stump on beach.
West	48-04	1621(232)	124_42	721(521)	Rock awash, bares
พธรษ	±0=0±	TOUTINOUL		'nrionri	7' Low water.
	ļ	,			, 1011 110 001 1

REG. NO.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

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	
REGISTER NO. 4450	
State WASHINGTON	
General locality H . W. Court Pacific Coast	
Locality Cape Johnson to Cape Alava	1
Scale 1:20,000 Date of surveyAugust 21, Oct. 11 19 30	
Vessel GUIDE	
Chief of Party K. T. Adams,	
Surveyed by A. N. Stewart	÷-
Inked by A. N. Stewart	
Heights in feet above H. W. to ground _to_tops_of_trees_	
Contour, Approximate contour, Form line interval 20 feet on	
Instructions dated April 16, 1930	Isl and s
Remarks: Sheet started by R. D. Horne in 1929.	

GPO