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Form 504	
DEPARTMENT OF COMMERCE	l
U. S. COAST AND GEODETIC SURVEY	ļ
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₩ % 8. SULVE L. & A.	
State: Washington Acc. No.	
DESCRIPTIVE REPORT Topographic Sheet No. 4306	
LOCALITY	
Grays Harbor	
Copalis Head to GapeElizabeth	
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192 7	
CHIEF OF PARTY	,
T.J.Maher	

DESCRIPTIVE REPORT to accompany

TOPOGRAPHIC SHEET "B" 4306

Coast of Washington Copalis Head to Cape Elizabeth

> U.S.C. & G.S.S. GUIDE 1927

> > Thos. J. Maher Chief of Party.

to accompany

TOPOGRAPHIC SHEET "B"

AUTHORITY - Orders to Thos. J. Maher, H & G Engineer, dated: March 5, 1927.

LIMITS - This sheet covers the coast of Washington from Copalis Head, latitude 47° 09' to Cape Elizabeth, latitude 47° 22'.

CONTROL - Control for the survey is furnished by stations located by third order traverse at about two and one-half mile intervals.

METHODS - The ordinary plane table method was used for executing the survey.

The trail indicated north of Taholah was sketched on the sheet after the survey, from notes observed when travelling the trail.

The half mile stretch of road close by the beach, between stations North and Hix, was sketched by similar notes.

Points on the low water line were obtained at practically all places at extreme low water, and this line is well located.

The traverse for the road, north of latitude 47° 18', was run by orienting, by declinatoire and reading single distances, between stations South and Dub.

Praverses were all short and closed within the allowable limits. The traverse from station North to station Quinault was run before station Quinault had been computed; this traverse was in error, about 20 meters in azimuth. It was adjusted by swinging in on station Quinault.

The abruptness of the beach does not lend the country favorably to obtaining elevations nor form lines. As many elevations as could be determined without too great delay in the progress of the work were obtained.

GENERAL DESCRIPTION - In general the shore is steep to, with well defined high water line. From Copalis Head to Point Grenville the beach is sand and about 200 meters wide. The stretch from Copalis Head to the Moclips River is generally soft and very treacherous for automobile travel. From a point one mile north of the Moclips River the beach can be travelled at all times except at extreme high water, with safety, as far as Grenville Bay. North of Point Grenville beach travel by automobile is out of the question; the beach is of soft sand and only about 40 meters wide as far as the Quinault River. North of the Quinault River, the shore is extremely rocky and steep to. It is impossible to travel the beach on foot beyond a point one-half mile north of the Quinault River at any time, except at extreme low water. The three points where stations Wing, Pan and Pot are located are similarly impassable. Cape Elizabeth can be passed only with great difficulty, and only when there

is little sea, and at extremely low water. The Indians recognize this, and have constructed a trail leading from Moclips to Queets, to make this stretch passable. North of Cape Elizabeth, the point 400 meters from the Cape, is passable only at extreme low tide. At impassable stages of the tide best use of the time available can be made by travelling the Indian trail from the Quinault River as far as station Taholah, where the beach can first be approached by a precipitous descent. It takes two and one-half hours to travel this trail. From station Wing to station Taholah, the shore is as nearly vertical as a natural formation can be, at an even height of about 200 feet.

The road from Pacific Beach to Moclips is well graded and improved. Beyond Moclips, as far as station Fin, it is passable at all times. North of here the road has just been completed and opened up and is not in good condition. Use can be made of the beach as far as station Ded, and beyond here of the old road, which is passable at all times as far as Taholah. The trip from Pacific Beach to Taholah can be made in 40 minutes.

From Point Grenville north to station Not, the shore is a vertical bluff at an even height of about 110 feet.

In general the country is well wooded. Appropriate legends appear on the sheet.

Cape Elizabeth is readily recognizable from the south. When fairly close to shore, Point Grenville is not so easily recognized. Grenville Arch Rock is not as easily recognized from the south as the two in Grenville Bay, because of their lighter color.

Coast Pilot Notes, furnished by the Commanding Officer of the Ship GUIDE, 1927, give information on the general aspect of the coast from offshore.

RIVERS, CREEKS AND TOWNS - Jo Creek is of no industrial importance. During the beach tourist season rowboats frequent it's waters in the lower part, which is affected by tide for three-quarters of a mile inland; up to the Aberdeen road. Bacific Beach is connected with Aberdeen by a good graded road, and also by the Southern Pacific Railroad. It is of no commercial importance, but is a favorite beach resort. A large hotel and many cottages furnish accommodations for visitors.

Moclips is a resort similar to Pacific Beach. There are several saw-mills located here.

The Moclips River, like Jo Creek, practically dissapears in the sand before it reaches the sea. The river is dammed at Moclips and is used for floating logs.

The Coast Pilot Notes adequately describe Taholah. (see the preceding).

The Quinault River bar can be crossed by boats and launches drawing but a few feet of water. The Indians disport themselves crossing the bar in their canoes, most of which are equipped with

small motors. They also travel by poling their cances as far as Lake Quinault. Lately, however, the motor truck is used to transport these cances over the highways, and the descent of the river only is made. Licensed Indian pilots made these trips, carrying tourists from Lake Quinault to Taholah.

The Quinault River is noted for it's salmon fishing, which is the main occupation of the Indians.

NEW PLACE NAMES - Pacific Beach and Sunset Beach. Both are well established local names.

Quinault is also spelled Quinaielt on government signs posted within the reservation.

CHANGE OF COAST LINE - The most noticeable change is at Pacific Beach, where Jo Creek has eroded the bluffon the north to an extent alarming to the inhabitants.

No particular change over the old survey, which does not show much detail, is noticeable at Point Grenville, nor to the north. But the steepness of the bluffs, with indications of continual erosion, shows that the shore is receding. This is particularly true north of the Quinault River, where debris is continually falling.

GENERAL - A list of plane table positions and of landmarks for charts is appended.

Respectfully submitted,

E. H. Bernstein, H & G Engineer,

USC & GSurvey.

APPROVED:

Thos. J. Maher, Chief of Party.

Inspected and Jound adequate

Estecis, mar 8,1928

LIST OF PLANE TABLE POSITIONS SCALED FROM TOPOGRAPHIC SHEET "B".

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	Prop.			_			20	*	· ••*
	DESCRIPTION			Dall. meters			meters	feet	•
*	臣	:	떮	۳ ک	Longitude	1	ğ	44	· ·
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OBJECT	<u>X</u>		LATITUDE	\ \	. 🗟	,	Å	HEICHT,	REMARKS
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		0			0	•			· · · · · · · · · · · · · · · · · · ·
PAT	cross boards	47	09	885	124	11	495	15	·
	large tripod	47	09	1705		11	682	12	on dead tree stump below high water line.
LAR	yellow bluff		10				762	50	peak of triangular shaped yellow bluff.
	tripod		10				872	30	same as station Roosevelt.
	ross boards	47		46			1016		
HIL		- T-(377			990	30	front gable of gray house.
	house		11						
DOG	cross boards		11	950			1191		
T0	stump		11				1254		
POP	cross boards		11		124			12	
MOM	cross boards	47	12	-		12		12	on tree stump below h.w. line.
SHA	shack		12	371		12	92	10	lone new shack.
HOP	tank		12	865		12	102	30	southernmost water tank at Pacific Beach.
CAN	cross boards		12	1500		12	389	18	an old telegraph pole.
ABE	tree	47	13			12	630		
BOY	cross boards		13			12	677		on tree.
PIL	•••••		13			12	706		pile of white rocks.
	chimney		13			12	841	50	single chimney on big gray roof.
NEW	house, west		70	1310		123	OHA	~	STIRTS OUTITIES OUT OFF STAN TOOM!
Wille	gable	AD	14	202		12	982	o'n	Nemant and mast southern bears at Marling
niiaa	_	#1					999	00	Newest and most southern house at Moclips.
	chimney		14	377		12			chimney west of McCammon Hotel, Moclips.
CUP	cupola		14	975			1196	טט	Cupola on Meclips R. R. station.
	a) big signal	47		681	124		302		on prominent eroded cliff.
	b) big signal		15	703		13	303	60	
	house		15	•		13	473		front gable of southern of two Indian houses.
BO	cross banners		15	1436		13	617		on tangent tree.
HAX	shack	47	16	14		13	676	15	small gray lone shack.
BAD	cross boards		16	1049		13	1022	12	on leaning tree trunk.
ZED	cross boards		16	1652					on tree trunk.
YU	sign board			•					
	signal	47	17	449	124	14	155	18	large surface signal.
SEE	white wash		17						roof of wrecked house.
MON	rock		17						white washed monument like rock.
DED	tree	۸ŋ	18		194				tall dead tree in Grenville Bay.
	D ock	-21			Teva				
			18	515	3.04		576		rock, whitewashed, on promontory.
IN	island		18	46	124				top of east island, Grenville Bay.
	island		17						top of west island, Grenville Bay.
	tree	47	18	327		16			end and tall lone tree on Point Grenville.
BIG	rock		18	472		16	972	100	tip of big rock, 150 meters off Pt.Grenville.
AET	yellow bluff	47	17	92	124	13	1167	110	peak of very prominent yellow bluff at
			-						Wreck Creek.
HIX	sign board si	g47	19	114	124	16	1093	100	big surface signal on bluff.
FACE	white wash	-	19	1110	124	17	146	15	whitewashed blotch on face of bluff.
	•		-					-	

LIST OF PLANE TABLE POSITIONS SCALED FROM TOPOGRAPHIC SHEET "B". Page 2.

OBJECT	DESCRIPTION	LATITUDE		D.M. meters	LONGITUDE		D.P. meters	HEIGHT, feet	REMARKS
		0	*	· · · · · · · · · · · · · · · · · · ·	0	•			
not	signboard sig	47	20	225	124	17	459	100	big surface signal near north edge of bluff.
DUB	cross boards		20	606		17	642		line.
STU	tree stump		20	956		17	800	12	white washed 5' stump, 12' high, below HW
SPIP	church spire		20	1423		17	894	20	church at Taholah.
PII	pile		20	1711	124	18	171	3	Inwater 200 met of Quinquil R. wouth
STUME	tree stump	47	21	115		18	235	15	prominent tree stump, and projecting alisty
WING	whitewash		21	317		18	578		on projecting cliff.
PAN	whitewash		21	435		18	873	20	on projecting cliff.
POT	whitewash		21	478		18	1079	30	on projecting cliff.

DEPARTMENT OF COMMERCE

DIVISION OF CHARTS, F £ No. ----

Thos. J. Maher

U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Steamer GUIDE, 508 Custom House,

San Francisco, Calif., November 21 ..., 19 27

SUPERINTENDENT, U. S. COAST AND GEODETIC SURVEY:

The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted:

Chief of Party. Method of Longitude. Latitude. Charts affected. DESCRIPTION. deter-mination. Datum.

D. M. meters D. P. meters. Red bluff 47 10 1591 124 11 930 N.A 6002 topog. 47 12 1117.0 124 12 278.5 N.A 6002 triang. Hotel gable 47 17 92 124 13 1167 6002 Yellow bluff N.A topog R R station cupola 47 14 975 124 12 1196 N.A. topog 6002

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

C. & G. SURVEY L. & A. DEC 80 1927 Acc. No.

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. B

REGISTER NO.

4306

WASH INCTON General locality Geast of Washington Grays Harbor Locality Copalis Head to Cape Elizabeth Scale 1:20,000 Date of survey June-July 1927. Stoamer GUIDE Chief of Party Thos. J. Maher Surveyed by E. H. Bernstein E. H. B. Inked by.... Heights in feet above H. W. to ground to tops of trees Contour: Mpgroximate contour, Form line interval 60 feet March 5 Instructions dated.....

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. <u>B 4306</u>
State WASHINGTON
General locality . Coast of Washington
Locality .Copalis.Head to Cape Elizabeth
Chief of party Thos. J. Waher
Surveyed by . E. H. Bernstein
Date of survey .July, 1927
Scale 1:20,000
Heights in feet above .high water
Contour interval . 50 feet.
Inked by E.H.B Lettered by . E.H.B
Records accompanying sheet (check those forwarded): Photographs,
Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet

Remarks: