## 9636, 96365 COMBINED

Diag. Cht. No. 6002-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Topographic & Shoreline

Field No. Ph-62 Office No. T-9636

LOCALITY

State Washington

General locality Grays Harbor

Locality South Bend - Range Point to

Raymond

19450-57

CHIEF OF PARTY F.Natella, Chief of Field Party E.H.Kirsch, Balto. Photo. Office

LIBRARY & ARCHIVES

DATE December 17, 1959

B-1870-1 (1)

## DATA RECORD

T-9636

Project No. (II): Ph-62(49) Quadrangle Name (IV):

Field Office (II): Raymond, Washington

Chief of Party: Fred Natella

Photogrammetric Office (III): Baltimore, Md.

Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 30 MARCH 1951
3 AUGUST 1951 15 FTBRUARY 1982 13 MAY 1982

Copy filed in Division of Photogrammetry (IV)

2291 34UL 1

Method of Compilation (III): Air Fhotographic (multiplex)

Manuscript Scale (III): 1:17,000 (topographist) reoscopic Plotting Instrument Scale (III): 1:17,000 (topo.) 1:10,000 (shoreline)

1:10,000 (shoreline)

Scale Factor (III):

1.000

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 9/10/58

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Mean sea level except as follows: Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

PONY 2, 1953

Lat.: 46° 41' 40.269"

Long.: 123° 47' 56.418"

Adjusted. Unadjusted

Plane Coordinates (IV):

State:

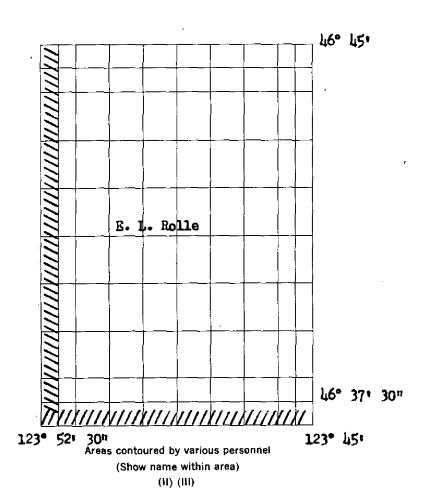
Zone:

Y=

X=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.



Form T-Page 2

## DATA RECORD

Field Inspection by (II): Interior: John H. Winniford	Date: AugSept. 1953
Shoreline: William R. Kachel Gordon R. Combs  Planetable contouring by (II):	JulAug. 1953 Date:
Completion Surveys by (II): CHARSH, BSHOP  Mean High Water Location (III) (State date and method of location):	Date: AVG. 1957
11 July 1950 (Photogrammetric)	
Projection and Grids ruled by (IV): Jack Allan	Date: 7 Sept. 1953
Projection and Grids checked by (IV): H. D. Wolfe	Date: 8 Sept. 1953
Control plotted by (III): A. K. Heywood *D. M. Brant	Date: 15 Jan. 1954 15 Jan. 1954
Control checked by (III): D. M. Brant  #A. K. Heywood	Date: 19 Jan. 1954 19 Jan. 1954
Radial Plot or Stereoscopic Control extension by (III):  E. H. Taylor  E. L. Rolle  Planimetry  Planimetry	Date: 2 Feb. 1954 5 Nov. 1954 Date: 10 Feb. 1954 11 Feb. 1954
Stereoscopic Instrument compilation (III): #E. L. Rolle \$/2  Contours E. L. Rolle	11 Feb. 1954 Date: 5 Nov. 1954
Manuscript delineated by (III): E. L. Rolle  * E. L. Rolle	Date: 15 Mar. 1955 12 Mar. 1954
Photogrammetric Office Review by (III): J. D. McEvoy  # J. D. McEvoy	Date: 24 June 1955 24 June 1955
Elevations on Manuscript J. D. McEvoy	Date: 15 June 1955

\*Applies to 1:10,000 shoreline survey only.

checked by (II) (III):

Camera (kind or source) (III):

Number	Date	PHOTOGRAPHS (III) Time (PST)	Scale	Stage of Tide
51-0-7147 thru 719	The Author of the Control of the Con	1320	1:40,000	5.0' above MLLW
51-0-7170 thru 717	74 "	1313	11	5.01 11 11
50-0-1776 thru 177	78 7/11/50	1606	1:24,000	7.31 " "
50-0-1797 thru 180	)1 "	1619	11	7.31 " "
50-0-1829 thru 183	30 #	1639	11	7.21 11 11
50-0-1841 thru 181	12 "	1647	n	7.21 11 11

## From Predicted tables

Tide (III)

Di-urnal

Reference Station: Aberdeen, Wash. Subordinate Station: South Bend

Subordinate Station:

Subordinate Station.

Washington Office Review by (IV): A.K. Hornood

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 43

Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 80

Number of BMs searched for (II): 27

Number of Recoverable Photo Stations established (III): 8

Number of Temporary Photo Hydro Stations established (III): none. Ratio of Mean Spring Range Range Ranges 7.8

Date:

Date:

Date:

Recovered: Recovered:

Identified: 11

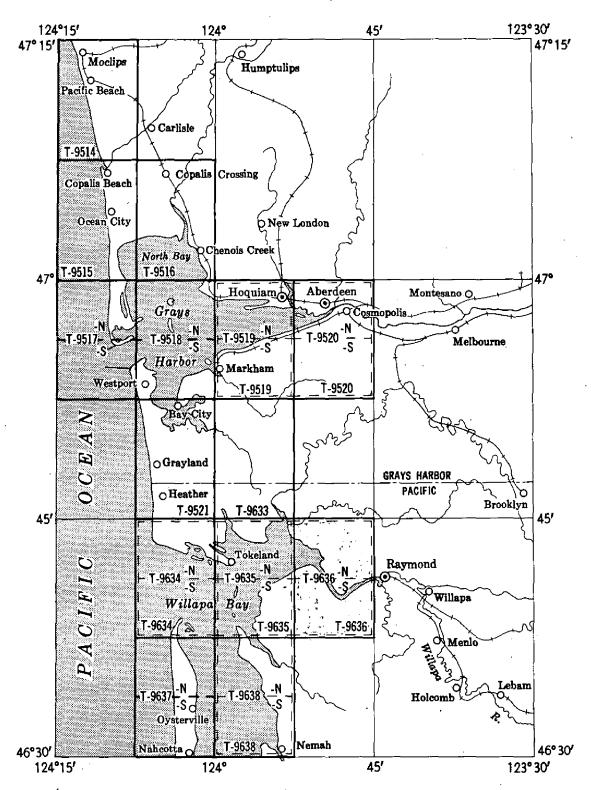
Identified: 24

Remarks:

## TOPOGRAPHIC AND SHORELINE MAPPING PROJECT PH-62 (49)

## WASHINGTON, Grays Harbor - Willapa Bay

Compilation scales 1:10,000 and 1:20,000



TOPOGRAPHIC MAPS: T-9514, T-9515, T-9516 T-9519, T-9520, T-9521, T-9633 to T-9636 and T-9638, (scale 1:20,000), T-9517-N, T-9517-S, T-9518-N, T-9518-S, T-9637-N, T-9637-S, (scale 1:10,000),

SHORELINE SURVEYS: T-9519-N, T-9519-S, T-9520-N, T-9634-N, T-9634-S, T-9635-N, T-9635-S, T-9636-N, T-9636-S, T-9638-N, T-9638-S, scale 1:10,000,

## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-9636

Topographic Map T-9636 is one of 14 similar maps in Project PH-62. It covers most of Willapa River.

This is a multiplex project in advance of hydrographic surveys to be made in the area.

The field operations preceding compilation included complete field inspection. The establishment of some additional horizontal control and the determination of elevations necessary to control a multiplex project vertically.

Both a topographic and a shoreline survey was made of this area.

The topographic compilation was at a scale of 1:17,000. The manuscript consists of one vinylite sheet  $7\frac{1}{2}$  in Latitude and  $7\frac{1}{2}$  in Longitude.

The shoreline survey consisted of two sheets T-9636N and T-9636S at a scale of 1:10,000. Each sheet being 3 3/4, in Latitude and  $7\frac{1}{2}$ , in Longitude.

The entire map was field edited. It does not meet the National Standards of Map Accuracy. It is to be published by the Geological Survey as a standard topographic quadrangle at a scale of 1:62,500 without an accuracy statement.

The registered copies under T-9636 will include cronar film positives of the topographic manuscripts and each of the shoreline maps.

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

CONTROL RECORD

COAST AND GEODETIC SURVEY

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784 (BACK) 1.000 FORWARD SCALE FACTOR. DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD DATUM CHECKED BY. D. M. Brant 1:10,000 SCALE OF MAP\_1:17,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. 579-7) 394.9) 54.9 (610.4) 500 (222.6)34.4) 51.9 (1789.5)(452.9) 113.1) (1037.7)275.4) (1816.1)513.2) (1806.8)(1039.1)(0.116 ) (4.97) (537.7)618.9) 766.0) 731.2) 947.2) (BACK) FORWARD 543.5 813.6 879.8 905.5 961.3 737.8 822.6 695.9 509.2 5.9 63.3 762.0 1220.4 1405.9 1800.8 665.1 1409.3 815.1 656.4 36.7 1812.4 1053.1 1818.3 1577.3 57.416 45.225 58.318 15.640 25.583 LONGITUDE OR x-COORDINATE 58.885 38.695 26.396 30.881 58.694 41.412 29.32h 26.349 45.528 49.532 32.734 2,080 23.959 01.187 01.488 02.049 35.854 LATITUDE OR y-COORDINATE A .287 34.707 PROJECT NO. Ph-62 39 9 약 9 39 9 乌 沅 \$ 옶 8 9 3 9 9 2 ಡ 옄 口 17 3 4 댸 16 123 91 123 9 123 16 123 9 123 9 123 9 123 옃 123 16 123 91 123 3 123 9 123 DATUM N.A. 1927 = F = E E E E £ = 5 ㅌ SOURCE OF G-5788 p-772 260 773 p. 762 763 762 772 772 761 761 (INDEX) 2 = = = E ġ, å å, ċ å å SOUTH BEND FIRE STATION TOWER, APEX SOUTH BEND, H. CRON SOUTH BEND PACIFIC COUNTY COURT HOUSE DOME, FINIAL, 1939 SOUTH BEND, LONG ISLAND OYSTER CO. BLACK STACK, 1939 SOUTH (USE), 1939 SOUTH BEND, WIND-MILL TOWER, 1939 MAP T-9636 SOUTH BEND, CATH 1 FT = 3048006 METER 2 (USE), STATION POTTER, 1939 STACK, 1939 RANGE, 1939 PORT, 1939 VANE, 1939 SANDY 1939 1939 62

14 January 1954

DATE

DATE 5 January 1954

COMPUTED BY A. K. Heywood

FORM 164 (4-23-54)

STATION	FORM 164 (4-23-54)			U.S. DEP	ARTMENT ESCRIPT	U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	V	COAST AND GEODETIC SURVEY	SURVEY	
STATION	MAP T. 9636		PROJEC	T NO.	-p-62			MAP	10,000	trimer o
Ref (UEE), 1939   P-766   N.A.   46   42   03.683   113.7 (1719.0)   CUEE), 1939   P-763   R.A.   46   40   59.882   Rado.	STATION	SOURCE OF INFORMATION (INDEX)		LATITUDE	OR x-COO	RDINATE #	DISTANCE FF OR PROJECTIC FORWARD	OM GRID IN FEET.		N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE FRO FORWARD (BACK)
(UEB), 1939   "   1927   123 51 25.077   532.8 (714.9)   1840.1 (3.6)   1840.1 (3	STEWART (USE), 1939	0-5788 p. 761	N.A.	917		33.683	113.7	(1739.0)		
Checked By 1939   1, 123   1			1927	123	as.	25.077	532.8	(7/11.9)		
Part	(IISE).	=		917		59.882	1849.1	(3.6)		
B.T.   B.   B.   B.   B.   B.   B.   B		å	•	123		38.272	175.8	(1099.3)		
A BAY BEACON	PANK, BET. CASE MILL	7	/	971	/	27.16	1598.3	(254.4)	和	Roner
A. BAY BEACON " Log Log 18.781 579.9 (1272.8) CONTROL CALLED CONTR	1 & MILL NO.2, 1939	o.	_	123		19.23	408.7	( 866.5)	0250	As CONTACOL
1937   123   52   11.266   139.4   (1035.2)   10.040   10.05.4	WILLAPA BAY BEACON		7	94		18.781	579.9	(1272.8)	10 30 T	SIGNATTO AS
1937	The Clause a	691.d	•	123		11.268	239.4	(1035.2)	" DUNA	A RIVER DAMPAREN 22 AMI
1937   Goff E   Life	WILLAPA BAY BEACON	=		917		26.236	810.1	(1042.6)	NON	DESIGNATED AS
1937   Goof E		p. 770		123		30.018	637.6	( 636.9)	"WILLAS	F
1939   125.0   123   144   22.157   470.1   802.8)   195.0	61,	G of E	/=	977		18.4190	1312.0	(5,042)	古古	_
1939 G-5786 " 46 39 47.738 1474.1 (378.6)  1939 " 762 " 123 46 49.561 1053.6 (221.9)  1939 " 761 " 46 42 25.804 796.8 (1055.9)  15E), 1939 " 762 " 123 49 31.314 665.2 (609.3)  15E), 1939 " 762 " 46 40 46.266 1428.6 (424.1)  15E), 1939 " 762 " 46 41 41.858 1292.5 (560.2)  1939 " 760 " 123 45 55.996 1190.1 (85.1)  1939 " 760 " 123 43 58.555 1244.1 (30.7)  1939 " 760 " 123 52 02.941 (52.5 (1212.3))  1939 " 760 " 123 52 02.941 62.5 (1212.3)  1940 The Brant Date 14 Jan. 1954	/	Monte	*	123		22.157	470.1	(802.8)	0550	AS HOR, GALTH
1939 " " 46 49.561 1053.6 (221.9)  1939 " 46 42 25.804 796.8 (1055.9)  IEE), 1939 " 46 40 46.266 1428.6 (424.1)  ISE), 1939 " 46 40 46.266 1428.6 (424.1)  ISE), 1939 " 46 41 41.856 1292.5 (560.2)  ISE), 1939 " 763 " 123 43 58.555 1244.1 (30.7)  ISE), 1939 " 760 " 123 43 58.555 1244.1 (30.7)  ISE), 1939 " 760 " 123 52 02.941 62.5 (1212.3)  CHECKED BY. A. K. Heywood DATE 31 DEC. 1953 CHECKED BY. D. M. Brant DATE 14 Jan. 1954.		9-5788		917		17.738	1474.1	(378.6)		an.
1939 " "		p. 702		123		19.501	1053.6	( 221.9)		
1939 " "	COOP. 1939			94		₹.804	796.8	(1055.9)		
1939 " "		p. 761		123		31.314	665.2	( 609.3)		- 8
1939 " " 46 40 49.927 1541.7 (311.0)  1939 " 46 41 41.858 1292.5 (560.2)  1939 " 763 " 123 43 58.555 1244.1 (30.7) ()\$5,0 AS 40°C, CANTROL  1939 " 760 " 123 43 58.555 1244.1 (30.7) ()\$5,0 AS 40°C, CANTROL  1939 " 760 " 123 52 02.941 62.5 (1212.3)	מנטג (ממה) אווס		•	947		16.266	1428.6	( 424.1)		
1939 " "	101 Mash, 1737	p. 762		123		14.264	303.2	( 972.0)		
1939   "	DAV (HSR), 1939	=	=	917		19.927	15年,7	(311.0)		
1939   "	or the stand and	p. 762		123		55.996	1190.1	(85.1)		
123   43   58.555   1244.1   ( 30.7)   0550   0547701   0570   0570   0547701   0547		/		94		11.858	1292.5	( 560,2)	ち	7 PROVEET
", 4. K. Heywood DATE 31 Dec. 1953 CHECKED BY. D. M. Brant DATE 1h Jan. 1954	1	p. 763	=	123		58.555	1244.1	(1.06)	1355C	2, 5
P. 760 " 123 52 02.941 62.5 (1212.3)  SHETER  Y. A. K. Heywood DATE 31 Dec. 1953 CHECKED BY. D. M. Brant DATE 14 Jan. 1954	HEROM. 1930	•		977	,	18.342	1492.8	(360.0)		
DATE 31 Dec. 1953 CHECKED BY. D. M. Brant DATE 11 Jan. 1954		p. 760		123		176.20	62.5	(1212,3)		
	COMPUTED BY: A. K.	Heywood	DA		sc. 195	33	В		M. Brant	

MAP T. 9636		PROJEC	PROJECT NO. Ph=62	Ph-62	р-62	SCALE 0	1:10,000 SCALE OF MAP 1:17,000	000	SCALE FACTOR 1.000	OR 1.000
STATION	SOURCE OF INFORMATION (INDEX)	The second secon	LATITUDE	OR y-CO	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROOR PROJECTION FORWARD	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GALD OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
JOHNSON LIGHT	G-5788 p. 771	N.A. 1927	917	24 2	08.200	253.2	(1599.5)			
KNOB 2 (USE) 1939	= 240		94	9 9	12.017	371.1	(1481.7)			
LOGGER, 1939	n. 6el.		94	1,7	31.270	965.6	( 887.2)			
MAILBOAT SLOUGH (LIGHT) LIGHT,			123	1 1 8	13.486	416.4	(1436.3)			
MAILBOAT SLOUGH MAIL) 1939		•	123	170	29.813	920.6	(1186.6)	How o	DESIGNATIO AS	(Sae (Buasaean
OFERA 2, (USE) 1939	" 191 d	•	123	39	50.026	1544.8	(308.0)			9
PONY 2, 1953	Field	•	947	4 5	40.269	1243.5	( 609.3)			
MILLAPA RIVER RANGE FRONT LIGHT 27,		•	123	3 4	34.470	1064.4	( 788.3) ( 99h.h)			-
WILLAPA RIVER RANGE REAR LIGHT 27,			123	77 05	44.590	1376.9	(475.8)			9 -
RANGE FRONT BN., (RANGE) 1939	0-5788 p. 771	•	123	13 69	24.265	749.3	(1203.5)	How SESSI	ESTGNATTO AS	WONDERDON HI
H ZINE, 1939	G-5788 p. 761		123	140	43.646	1347.7	( 505.0)			<b>B</b>
SNAG, 1939	" p. 763	•	123	17	10.179	314.3	(1538.4)		1	
1 FT. = . 3048006 METER E. L. ROlle	. Rolle		DATE 25 March 1955	March	1955	CHE	CHECKED BY. H. P. Bichert.	. Eicher	DATE	25 March 1955

FÖRM **164** (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

MAP T9636		PROJE	PROJECT NO.	Ph-62		1:10,000 SCALE OF MAP_1:17,000	1:10 MAP 1:17	000	SCALE FACTOR	J.000 €
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR \$\mu\$-COORDINATE LONGITUDE OR \$x\$-COORDINATE	OR #-COC OR x-CO	RDINATE ORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	GRID IN FEET. INE IN METERS (BACK)	DATUM	N.A. 1927 - DATUM.  DISTANCE FROM GRID OR PROJECTION LINE IN MÉTERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Mubby, 1939	G-5788 p- 760	N.A. 1927	123	£3	10.049	1 1	(1542.4)			
D 62, USE, 1937	South Benda Penda Penda		123	£ 33	54.352		(174.4)			
SB 3, 1936	n D•A4	=	123	র র	22.550	}	(1156.4)			
Keilog, 1953	Field Comp.	=	123	<b>9</b> %	45.745		( 440.2) ( 836.3)			
MINNIE, 1953	E	E	123	<b>i</b> i	59.136	1826.1	( 26:7)			
					-	-				
										-
										10 -
			i							
COMPUTED BY. A. K. HEYWOOD	. Неумоод	<u>_</u>	DATE 12 Jan. 1951	m. 19	7,	CHECK	CHECKED BY. D. M. Brant	. Brant	DATE 15 Jan. 1954	com. 1954

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

COAST AND GEODETIC, SURVEY CONTROL RECORD.

1:10,000

FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS COMM-DC-5784 (BACK) 1,000 FORWARD 10a . SCALE FACTOR DISTANCE FROM GR.D OR PROJECTION LINE IN METERS (BACK) N.A. 1927 - DATUM FORWARD DATUM SCALE OF MAP 1:17,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, 455.2) 73.8) 35.3) 225.1) 81.5) 853.6) 19.1) 354.8) 534.8) ( 630,2) (1130.4)(9.069) 622.8) 159.0) 301.7) (1491.2) 962.4) 831.6) (272.5) (1,8241) 565.1) (1791.8)(513.9) (1129.7)(BACK) FORWARD 761.2 583.9 119.3 1318.7 723.0 644.3 1201.1 919.9 973.0 361.6 441.3 95.6 61.0 1193.8 1397.5 1251.5 1287.6 722.3 890.3 1255.7 1230.0 1817.4 1693.7 1050.3 LONGITUDE OR x-COORDINATE. LATITUDE OR # . COORDINATE L524, 105.93 1,175,313,66 PROJECT NO. Ph-62 3 얽 2 덗 9 9 3 弱 9 3 3 3 듸 Ę 9 3 4 3 H 크 4 ᅜ 3 123 123 123 9 123 91 123 2 123 9 123 9 123 9 123 123 9 3 9 3 123 DATUM N.A. 1927 E **E** = E = Ξ = = = **=** \$ SOURCE OF (INDEX) Trav. Comp. Comp. # = = C E = E MAP T- 9636 HENDERSON, 1939 Sub\_Sta\_KNOB 2 (USE) 1939 STATION Sub Sta SOUTH (USE) 1939 Sub Sta "A" SANDY 2 (USE) Sub Sta "B" SANDY 2 (USE) POTTER, 1939 LOGGER; 1953 PONY 2, 1953 Sub Sta "B" Sub Sta "A" Sub Sta "B" Sub Sta "A" Sub Sta " Sub. Sta Sub Sta Sub Sta 4000 I-61 808 19-X

DATE 6 Jan. 1954

CHECKED BY: A. K. Heywood

6 Jan. 1954

DATE....

COMPUTED BY D. M. Brent

1 FT. - . 3048006 METER

FORM 164 (4-23:54)

U.S. DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT

FORM 164 (4-23-54)

CONTROL RECORD

COAST AND GEODETIC SURVEY

FROM GRID OR PROJECTION LINE IN METERS COMM- DC- 5784: (BACK) 1:000 FORWARD 10 b DATE 15 Jan. 1954 SCALE FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) N.A. 1927-DATUM ٠, FORWARD DATUM CHECKED BY: D. M. Brant 1:10,000 SCALE OF MAP 1:17,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET. (28:5) (382.1) (1226.3)(1,16.2) (6.966) 732.5) 876.7) (1,08.5) (1005, 7)(1009.0)(BACK) FORWARD 1470.7 48.5 791.7 397.3 1444.2 269:5 1436.5 266.2 1414.3 527.1 PROJECT NO. Ph-62 LONGITUDE OR x COORDINATE LATITUDE OR J. COORDINATE 14 Jan. 1954 1,177,597.44 486,729.lu ဌ 듸 묎 = £ 2 읔 3 97 123 3 123 9 123 9 123 DATE.... DATUM 1927 E = = ¢ SOURCE OF ... Trav. "O" COMPUTED BY A. K. Heywood Field (INDEX) Comp. Comp. Þ = MAP T. 9636 1 FT. = 3048006 METER STATION Sub Sta MINNIE, 1953 KELLOG, 1953 Sub Sta "A" CUT 1939 Sub Sta "B" CUT 1939 HERON, 1939 Sub Sta Sub Sta e i

## COMPILATION REFORT Project Fh-62 T-9636

Field Inspection Report - Bound with Descriptive Report for T-9633.

Photogrammetric Plot Report - Bound with Descriptive Report for T-9637.

## 31. DELINEATION

Reduction on film positive of 10,000 shoreline manuscript was used to delineate shoreline and alongshore area of 17,000 quad. Multiplex was used for delineation of contours and inshore areas. Detail points were dropped by multiplex along the shoreline on 10,000 scale manuscript which was compiled from photographs graphically.

## 32. CONTROL

Refer to Photogrammetric Flot Report for discussion of horizontal control.

Most of this area is covered by heavy woods making it difficult to read ground elevations.

## 33. SUPPLEMENTAL DATA

Land Plats:
Township No. 14 North, Range No. 9 West

"" 10 "

" 13 " " " 9 "

" 13 " " 10 "

## 34. CONTOURS AND DRAINAGE

Refer to item 34 of Compilation Report for T-9516.

Model 7146 - 47 could not be levelled as a unit. When favoring the elevations at the corners, those in the center of the model were about 20 feet high. Since the east quarter of the model was beyond the project limits, we accepted a solution which left this portion of the model low while the remainder of the elevations could be held.

An elevation was needed in the southwest corner of model 7149-50. We furnished this by having read a multiplex elevation when its adjoining model 7148 - 19 was set. In turn, another multiplex elevation had to be dropped in 7149 - 50 for use in SW corner of model 7150 - 51. It is realized that in heavily wooded areas such as these, it is difficult if not impossible for the field party to furnish all elevations as needed for precise levelling of the models.

Model 7170 - 71 because of its extensive timber and lack of Vertical control is probably the weakest model in the quad.

The discrepancy overlay has been marked as an aid for suggested checks during the field edit.

## 35. SHORELINE AND ALONGSHORE DETAILS

As discussed in the field report, shoreline and adjacent areas were apparently difficult to interpret. Inspection was followed during the compilation as closely as possible. Limits of marsh and grass in water in most cases was interpreted from the photographs.

## 36. OFFSHORE DETAILS

The numerous offshore details are believed to be fairly complete. Some additions and corrections are expected to be made during the hydrographic survey.

## 37. LANDMARKS AND AIDS

Forms 567 were forwarded 5 April 1954 for Landmarks and Aids. During the hydrographic survey which followed, Form 567 for five (5) additional landmarks to be located by multiplex was furnished to this office. Three (3) of these are off the east limits of the survey. Although all the additional landmarks had been identified on the field inspection photographs, none had been listed on Forms 567 furnished us by the original field party, nor had identification forms been received. We have now located these objects and another Form 567 is submitted herewith.

## 38. CONTROL FOR FUTURE SURVEYS

Topo station TER listed in field inspection report as on quad T-9635, should be on quad. T-9636.

Topographic stations BAN, DIKE and DRUM are off the east limits of the survey. A new position for BAN was established by multiplex. The 1939 position of DRUM was verified. DIKE had not been identified by the field party.

A list of recoverable topographic stations on this survey was submitted on 5 April 1954 with "Notes For the Hydrographer."

## 39. JUNCTIONS

Junction has been made with survey T-9635 to the west.

There are no contemporary surveys to the north, south or east of this quad.

## 40. HORIZONTAL AND VERTICAL ACCURACY

Refer to item 34 of Compilation Report for T-9516.

## 46. COMPARISON WITH EXISTING MAPS

AMS Quadrangle Aberdeen, Sheet 1277 III, Series V-791, scale 1:50,000 published, First Edition 1938, Second Edition 1947.

## LT. COMPARISON WITH NAUTICAL CHARTS

Chart No. 6185, scale 1:40,000 published 1952 (36th edition) correction date Oct. 6, 1952.

Respectfully submitted 300 June 1955

Approved and Forwarded

Joseph D. McEvoy Carto. Photo. Aid

E. H. Kirsch, Officer-in-Charge Baltimore District

## PHOTOGRAMMETRIC OFFICE REVIEW

T- 9636

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line 14. Rocks, shoals, etc 15. Bridges 16. Aids
to navigation 17. Landmarks 18. Other alongshore physical features 19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
Instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features
CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
40. Joseph D'Mc Evong New / Trike
Reviewer SupplyIstr, Review Section or Unit
41. Remarks (see attached sheet)
,
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.
Compiled Supervisor
43. Remarks: 6/12/3

## GEOGRAPHIC NAMES LIST

Bone River

Camenzind Road Cemetery Road Church Road

Donaldson Creek

Eklund Park deleted by Full Edil

Fredrickson Slough

I I Slough

Johnson Slough

Kellogg Slough

Mailboat Slough

North Fork Palix River Northern Pacific

Old South Bend Raymond Road

Potter Slough

Raymond Range Point

Skidmore Slough Smith Road South Bend South Bend Falix River Road Stuwart Slough Correction by Field Edit. STUART

U. S. 101

Wash. State 12 Welsh Ranch Willapa Harbor Airport Willapa River

## DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

POST-OFFICE ADDRESS:

West Coast Field Farty

TELEGRAPH ADDRESS:

P.O. Box 585

8 December 1954

EXPRESS ADDRESS:

San Mateo, California

To:

Officer in Charge

Baltimore Photogrammetric Office U. S. Coast & Geodetic Survey

518 East 32nd Street, Baltimore 18, Maryland

Subject:

Landmarks for charts, Willara Bay - Project CS-362 (Ph-62)

Reference: Chart Letter No. WCFP-54-8, dated 25 October 1954.

A copy of referenced chart letter is enclosed.

Your attention is called to the five (5) objects for which only approximate positions were listed. These objects were identified on the field photographs which were forwarded to your office on 27 October 1954. The manuscripts furnished this party did not cover this area, and final locations could not be determined.

> C. A. George CDR., USC&GS OinC, West Coast Field Farty

Enclosure (1)

co; The Director

Form 567 April 1945

## OF COMMERCE DEPARTMEN OF COMMERC U. S. COAST AND GEODETIC SURVEY

# NOWING MANAGOR LANDMARKS FOR CHARTS

STRIKE OUT ONE TO BE CHARTED WAS PRINGED TO BE CHARTED TO B

Saltimore, Maryland

15 June

. 19 55

I recommend that the following objects which have not) been inspected from seaward to determine their value as landmarks be charted on (determine their value as landmarks be

The positions given have been checked after listing by Henry P. Fichert

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## NONFLOATING AIDS GRALMINDMARKS FOR CHARTS

TO BE CHARTED STRIKE OUT ONE

Saltimore, Maryland

25 Peb.

1861

I recommend that the following objects which have not been inspected from seaward to determine their value as landmarks be

Henry P. Elchert The positions given have been checked after listing by charted on (alexandrations) the charts indicated.

CHARTS AFFECTED Chief of Party. 6185 `# Ü 2 TEAHORE CHART MENORE CHARL × H 34 × M 14 M M × M HARBOR CHART LOCATION 1953 DATE C 0 . . • E. H. Kirsch METHOD OF LOCATION ACATION BURVEY NO. T-9636 1-83 ¥ . . . DATUM 1927 \* C 1203.0 1203.0 D. P. RETER 21.802 02.852 60.6 00.151 30.019 1158.0 1215.6 212.11 54.516 13.185 102.15 239.5 30.08 2007 638.7 LONGITUDE \* S જ 9 5 9 POSITION र 2 S K ス S 53 123 ٥ 53 133 S 3 123 123 D.M. MÉTERS 1376.9 727.9 1004.4 29.811 920.5 05.201 26.236 510.1 18.784 23.574 13:459 580.0 34.470 24.265 253.2 4.00.5 158.2 769.3 LATITUDE \* ÷ 4 겈 2 옄 4 4 겈 3 걸 얼 o 2 B 2 2 4 3 2 2 9 2 SIGNAL Range Front Willaps River Range Front A Willaps Kiver Hange Hear Range Boar 19, 1953) Willaps Biver Daybeacon (Willaps River Daybeacon 28, 1953) Willaps River Daybeacon Willage River Lt. DESCRIPTION ( A #111apa River Daybeacon 37, 1953) Willape River ybeacon 37, 1953) Lt. 27, 1953) ie. 27, 1953) MASHITATOR 33, 1953) 22, 1953) 30, 1953) 26, 1953) 1 CHARTING NAME 517 **5** STATE いり 图/ 語ノ 터 ] 韶 Z 語ノ 3

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating المائم الإنجاب ويستحدثوا المائد مهوائه الأرامية الأماهيم والمالية الأدامة مائها ودورائرا وإناكاتها ورائي المراها المراهد المراهد المراهد المراهدة والأفافي ووسوه المارية والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة والمراجعة FIELD EDIT REPORT

Project Ph-62

T-9635 and T-9636

1 August 1957

V. R. Sobieralski, Chief of Party

## 51. Methods

Field edit of these maps was done in accordance with Letter Instructions for Field Edit, Project Ph-62, dated 1 June 1955, and Notes to the Field Editor on the discrepancy prints. The work was accomplished in June and July 1957.

All planimetric features have been edited. Deletions and additions have been made on Field Edit Sheet Nos. 1, 2 and 3 (T-9636) and Field Edit Sheet No. 1 (T-9635).

Notes to the field editor on the discrepancy prints have either been answered on the print itself or cross-referenced to the proper source of information.

In general, violet ink has been used for elevations and contour corrections made by planetable, whereas barometric elevations and contour changes have been indicated with red ink. One planetable traverse in T-9635 on the south side of the Bone River was inadvertently inked with red ink. Deletions have been made with green ink. Red ink has been used to check, correct and add cultural features.

No section corners or points on line were located in T-9635.

The following section corner in T-9636 was recovered and located by planetable:

Section Corner 32, 33, 5, 4 T14, 15N R9W, located on Field Edit Sheet No. 1.

The following section corners and points on section lines were recovered and identified on 1:20,000 scale field photographs:

Point	\$44.	Identified	on Photo
Forme			
Section Corner 29, 28, 32, 33	Phase P	51 0 7173	
TIAN RYW		ing and the second	
n n 31, 1, 6		51 0 7173	
2 T13,14N R9,10W	75	**************************************	

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	н	<b>R</b>	ø,	10/11 T14N R9W	51	0 7149	
	n	Ħ	p)	11 T14N R9W		0 7149	
				14.			

Field edit information has been noted on the discrepancy prints, Field Edit Sheets I through 3 in T-9636, Field Edit Sheet No. 1 in T-9635 and on the following 1:20,000 scale field photographs:

Photograph	Information
51 0 7173	Section Corner
51 0 7174	Section Corner
51 0 7148	Buildings at west edge of Raymond
51 0 7149	Point on section line
51 0 7150	Point on section line
51 0 7171	Point on section line
51 0 7172	Terminal of submarine cable
- 51 0 7205	Terminal of submarine cable
51 0 7303	Terminal of submarine cable and buildings
51 0 7304	Shoreline in Bay Center and buildings

State Highway 13-A is being extended westward from the Airport Road at Willapa Harbor Airport and the present contract will take it to North River. Construction is now in progress and all of the road that could be located by planetable at the time of field edit has been located on Field Edit Sheet No. 1. Contract plans for the section from Airport Road to North River were obtained from the Washington State Highway Commission and are included with the field edit data. The following road survey stations have been located on the sheet by planetable methods: Stations 267/00, 296/56, 324/50, 335/50, 340/50, 406/00. It is believed that these stations will anable the compiler to align the new road on the map.

## 52. Adequacy of Compilation

No inadequacies were noted in the compilation and it will be complete with the application of the field edit data.

## 53. Map Accuracy

No deficiencies in horizontal accuracy were noted during field edit operations.

Vertical accuracy tests were run in both sheets. In T-9636 the tests were along the Palix River - South Bend Road and along Church Road. Of the one hundred and five points tested by planetable, one hundred and one points or ninety-six percent of them were within one-half contour interval. Of fifteen points tested by barometric leveling, only sixty percent were within one-half contour interval. One would naturally expect the contours to be fairly accurate along the roads but inaccuracies are to be expected in the wooded areas where checking is extremely difficult and highly impractical. It is believed that this map will not conform to national map accuracy standards for a 40-foot contour interval because a large area of the map is wooded.

Three accuracy tests were run in the southeast corner of T-9635. Of ninety-three points tested by planetable, only seventy-six percent were within one-half contour interval. Of twelve points tested by barometric leveling, only eight points or sixty-seven percent were within one-half contour interval.

The accuracy tests have been abstracted and are submitted with this report.

## 54. Recommendations

No recommendations are made.

## 55. Examination of Proof Copy

A proof copy of these maps may be sent to the following named persons for examination:

Mr. I. W. Pottu County Court House South Bend, Washington Mr. L. S. Mathews County Court House South Bend, Washington

Mr. Pottu is the Pacific County Engineer and Mr. Mathews is the office engineer for Pacific County.

The only discrepancy in geographic names that was noted is the spelling of Stuart Slough, near the west edge of T-9636. The correct spelling is STUART rather than STUWART as it is spelled on the map.

Approved:

Respectfully submitted:

V. Ralph Sobieralski LCDR C&G Survey Chief of Party Charles H. Bishop Cartographer C&GS

## REVIEW REPORT T-9636 TOPOGRAPHIC August 25, 1958

## 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

335	1:20,000	1852
2045	1:20,000	1890
2105	1:10,000	1891
2106	1:10,000	1890

This map supercedes all previous surveys for use in construction of nautical charts.

## 63. COMPARISON WITH MAPS OF OTHER AGENCIES

AMS Aberdeen Sheet 1277111, 1:50,000 2nd edition 1947

## 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

None

## 65. COMPARISON WITH NAUTICAL CHARTS

Chart 6185 1:40,000 11/25/57

## 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

Two vertical accuracy tests were run by planetable along roads. One test was run by barometric leveling through woods.

The planetable tests checked very well. The barometric test which was run through heavy woods did not meet standards.

Since a greater portion of this area is dense woods this manuscript will not meet the standards of map accuracy for contours.

The horizontal accuracy was checked during field edit and proved satisfactory.

This manuscript complies with all instructions and may be used as a base for chart construction.

## 67. SHORELINE SURVEYS

Shoreline manuscripts T-9636N, T-9636S scale 1:10,000 cover the same areas as shown on the topographic manuscript.

The surveys are in agreement.

Reviewed by

Approved

Chief, Review Section Photogrammetry Division

Chief, Nautical Chart Branch Charts Division

Coastal Surveys Div.

## NAUTICAL CHARTS BRANCH

## SURVEY NO. <u>T-9636 N</u>&S.

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
9-14-79	18504 (4185)	D.C. Larson	Betwee After Verification and Review
	(6185)		Has been superseded RCS
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A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.