

6449

U. S. COAST & GEODETIC SURVEY  
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Form 504  
Ed. June, 1928

## DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton., Director

State: Washington

## DESCRIPTIVE REPORT

Topographic

~~Hydrographic~~

Sheet No. R - 1935

## LOCALITY.

McNeil Island, Gertrudis Island, Pitt  
Island, Eagle Island and North shore  
of Anderson Island.Puget Sound1935.

## CHIEF OF PARTY

Jack Senior.

U. S. GOVERNMENT PRINTING OFFICE: 1923

6449

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

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. R - 1935

REGISTER NO.

State Washington

General locality Puget Sound

Locality McNeil Id., Gertrudis Id., Pitt Id., Eagle Id. and north shore of Anderson Island.

Scale 1:10,000 Date of survey July - August, 1935.

Vessel U.S.C. & G.S.S. EXPLORER

Chief of Party Jack Senior

Surveyed by Edwin C. Baum

Inked by Edwin C. Baum

Heights in feet above M.H.W. to ground ~~to tops of trees~~

~~Contour~~, Approximate contour, ~~Horizontal~~ interval 50 feet

Instructions dated March 29, 1934.

Remarks:

DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET "R"

PUGET SOUND - WASHINGTON

1 9 3 5

- o -

Jack Senior, Chief of Party, C. & G. S.

- o -

DESCRIPTIVE REPORT  
TO ACCOMPANY TOPOGRAPHIC SHEET "R",  
PUGET SOUND - WASHINGTON.

AUTHORITY:

Survey was executed in accordance with Director's Instructions, dated March 29, 1934, Project H.T. - 171.

LIMITS:

The area surveyed includes all of McNeil Island, Gertrudis Island, Pitt Island, Eagle Island and the north shore of Anderson Island between Yoman Point and Otso Point.

GENERAL DESCRIPTION:

McNeil Island, approximately three and one half miles long and two and one half miles wide, irregularly shaped is heavily wooded with evergreen and deciduous trees.

Two breast like hills are found on the extreme eastern end of the island giving way to a low waist like valley to the westward.

Except for short intervals, steep dirt eroding bluffs of varying heights are conspicuous throughout the sheet.

The remainder of the island is lower but maintains its irregular appearance.

On the north shore is found Still Harbor with Gertrudis Island guarding its east entrance.

To the westward in Pitt Passage lies Pitt Island, a small low island, with steep dirt eroding bluffs on all except the western end.

Near the middle of Balch Passage lies Eagle Island a low, oval shaped area, covered with evergreen trees and confined within low but steep dirt eroding banks.

The Anderson Island area has gently rising slopes, footed by dirt bluffs of varying heights. These bluffs are characteristic of the entire sound area. The lower altitudes nearer the beach are under cultivation. The upper areas are heavily wooded with both evergreen and deciduous trees.



CONTROL:

Triangulation control points executed during seasons of 1924 and 1935, and based on North American 1927 datum were used.

SURVEYING METHODS:

Standard plane table survey methods were used. Where conditions permitted, topographic signals were cut in from triangulation stations on the opposite shore and checked by traversing between control points. In other areas straight traversing was executed.

No errors were found.

All off-lying features were rodded in with two exceptions. Exceptions being Wyckoff Shoal and black buoy in Balch Passage.

Wyckoff Shoal was fixed in position by the usual three point problem and position checked by resection on two additional triangulation stations.

The position of black buoy in Balch Passage was determined by the intersection of four cuts.

CONTOURS:

See "Descriptive Report X - 1935", Nisqually Reach under paragraph "Contours" for detailed information relative to obtaining contours.

TOWNS AND DOCKS:

On the south shore and near the east end of McNeil Island is located McNeil Island prison. *U.S. Penitentiary, McNeil I see G. M. 107*

The dock shown at topographic signal "GORE" is in good condition and is used exclusively for prison purposes.

The two smaller docks to westward of main dock are likewise prison property. The westernmost one is a small marine railway and platform.

No attempt was made to detail property of prison inside of wire enclosure, with the exception of administration building shown in solid black. The brick stack and silver tank were located at intersection of cuts.



Gertrude, located at the head of Still Harbor on the north side of McNeil Island consists of a store and gas station. A dock in fair condition is found here. Along the west side of Still Harbor is located a sawmill, in operation at present, and several houses. At the sawmill is found a small dock in fair condition.

A dock, in fair condition, near the south end of Pitt Passage is known as Pitt Wharf.

A ferry landing known as Bee in daily use and in good condition, is located on the southernmost part of McNeil Island in Balch Passage.

On Anderson Island near the east end of Balch Passage is located the Anderson Island landing dock. This dock, a ferry landing, is in daily use and in good condition.

A private dock, with store on dock, known as Johnson Landing, in good condition is located on Anderson Island due south of Eagle Island.

#### OTHER ITEMS:

On the south shore of McNeil Island in the vicinity of topographic signal "BUME" is located a reservoir. This reservoir and dam was in the process of construction during this survey.

A transmission line crosses Pitt Passage just south of Pitt Island. The supports, shown by small black circle are 108 feet above mean high water and the lines have a clearance of 75 feet above mean high water.

The small bight, 1/3 of a mile west of Still Harbor is crossed by a highway bridge, in good condition.

South<sup>east</sup> of Otso Point on Anderson Island is shown a small private dock of no importance and in a state of decay.

The small bight at topographic signal "DIED" on Anderson Island is crossed by main highway bridge at the head, and by a small foot bridge at the entrance.

Several boat houses are shown along the shore of Anderson Island and should not be confused as docks. All docks or small landings having been previously mentioned.

A light, unattended, is maintained on north end of Eagle Island.

Eagle Island is federal property.

ROCKS:

Numerous rocks as shown were located. Critical rocks were rodded in and elevations given. All rocks on Wyckoff Shoal were rodded in from turning point on shoal.

The low water line was transferred from smooth hydrographic sheets.

COMPARISON WITH CHART NO. 6460:

Due to the differences in scale a detailed comparison was not made. Examination showed many man made changes.

Changes not shown on chart are as follows: transmission line, dam and reservoir, prison and docks, bridge in bight at topographic signal "BRO", bridges in bight at topographic signal "DIED" and minor details such as house locations.

TOPOGRAPHIC SIGNALS:

Except as noted on sheet, all topographic signals shown outside of high water line are targets attached to stumps, fallen trees and etc., and are not of a permanent nature.



GEOGRAPHIC NAMES

Chart name	Local name	Source from which information was obtained.	Recommended name.
McNeil Island	McNeil Island	Well established name.	McNeil Island.
Anderson Island	Anderson Island	Well established name	Anderson Island
Gertrudis? Island	Gertrude Island	Locally known as Gertrude Island, local maps give same name.	<del>Gertrude</del> Island Gertrude <i>all</i>
Pitt Island	Mosquito Island?	Locally known as Mosquito Island, local maps give same name.	<del>Mosquito Island</del> <i>Pitt Id</i> change not recommended
Eagle Island	Eagle Island	Well established name.	Eagle Island
Still Harbor	Still Harbor	Well established name.	Still Harbor.
Pitt Passage	Mosquito Passage Pitt Passage	This pass is equally well known by both names.	<i>Pitt Passage</i>
Balch Passage	Eagle Passage Balch Passage	This pass is equally, well known by both names.	<i>Balch Passage</i>
Wyckoff Shoal	Wyckoff Shoal	Locally known as given on chart.	Wyckoff Shoal
Gertrude	Gertrude	Well established name.	Gertrude
Meridian " <i>see Ely P. 6.</i>	Pitts Wharf	Sign on dock, local maps, and residents of vicinity know this landing as recommended.	Pitts Wharf <i>has not warranted in dropping "Meridian" 1949</i>



GEOGRAPHIC NAMES

Chart name	Local name	Source from which information was obtained.	Recommended name.
	Johnson Landing	Sign on dock, local maps, and residents of vicinity know this landing as recommended.	Johnson Landing
	Anderson Island Landing	Sign on dock, this is a regular ferry landing, local maps give the name Yoman, locally known as recommended.	Anderson Island Landing.
Yoman Point	Yoman Point	Well established name.	Yoman Point
Otso Point	Otso Point	Well established name.	Otso Point
Hyde Point	Hyde Point	Well established name.	Hyde Point
	Halverson Spit	Locally known by inhabitants of vicinity.	Halverson Spit.

Respectfully submitted,

*Edwin C. Baum*

Edwin C. Baum,  
Jr. H. & G. Engr., C. & G. S.,  
U.S.C. & G.S.S. EXPLORER.

APPROVED AND FORWARDED:

*Jack Senior*

Jack Senior,  
Commanding Officer,  
U.S.C. & G.S.S. EXPLORER.

## Remarks

## Decisions

1		
2		
3		
4		
5	change <sup>is</sup> warranted to Gertrude 6/12	Gertrude
6	Geog. Dict. of Wash. has Gertrude's Id. 71672 has "Gertrude's"	
7		
8	but not a warrant in displaying the name "Meridian" from chart: still the P.O.	Pitts
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21	this is the official P.O. of place known locally as "Pitts Wharf"	
22	official name: see G.N. 107	
23		
24		
25	⊕ "the wharf is known as PITTS Wharf for commercial purposes only: but the P.O. is "Meridian"	
26		
27	see statement by postmaster, filed as G.N. 107.	



## GEOGRAPHIC NAMES

Survey No. 6449

Name on Survey	A	B	C	D	E	F	G	H	K	
<u>McNeil Island</u> ✓	✓ *		✓							1
<u>Carr Inlet</u> ✓	✓ *		✓							2
<u>Balch Passage</u> ✓	✓ *		✓							3
<u>Still Harbor</u> ✓	✓ *									4
<u>Gertrude Island</u> ✓ <i>alt 6/12</i>	✓ *	✓	✓		✓			✓		5
<u>Hyde Pt.</u> ✓	✓ *			✓						6
<del>McNeil Island Prison</del>				✓					*	7
<u>Pitts Wharf</u> ✓		✓		✓	✓				*	8
<u>Pitt Passage</u> ✓	✓ *									9
<del>Syckoff Shoal</del>										10
<u>Pitt Island</u> ✓	✓ *		✓							11
<u>Halverson Spit</u> ✓		✓		✓					*	12
<u>Otso Pt.</u> ✓	✓ *			✓						13
<u>Johnson Landing</u> ✓				✓	✓				*	14
<u>Eagle Island</u> ✓	✓ *		✓					Light List		15
<u>Anderson Island Landing</u> ✓				✓	✓				*	16
<u>Anderson Island</u> ✓	✓ *	✓	✓							17
<u>Yoman Pt.</u> ✓	✓ *									18
<u>Wyckhoff Shoal</u> ✓	✓ *			✓						19
<u>BEE</u> ✓	✓ *			✓						20
<u>Meridian (P.O.)</u> ✓	✓ *					✓	✓			21
<u>U.S. Penitentiary, McNeil I</u> ✓		✓		✓					*	22
<u>Gertrude</u> ✓	✓ *			✓		✓				23
<u>Yoman</u> <i>alt 6/25</i> ✓	✓ *					✓				24
										25
										26
										27

Names underlined in red approved  
by *E.R.T.* on 5/26/36



# MEMORANDUM

## IMMEDIATE ATTENTION

~~SURVEY~~  
 DESCRIPTIVE REPORT } ~~No. H~~  
~~PHOTOSTAT OF~~ } No. T     **6449**

{ received **APR 17 1936**  
 { registered **MAY 18 1936**  
 { verified  
 { reviewed  
 { approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	
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C. K. Green

## REVIEW OF TOPOGRAPHIC SURVEY No. 6449

Title (Par. 56) *McNeil Island, Washington*

Chief of Party *Jack Senior* Surveyed by *E.C. Baum* Inked by *E.C. Baum*

Ship *Explorer* Instructions dated *March 29, 1934* Surveyed in *July - Aug. 1935*

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.) ✓
2. The character and scope of the survey satisfy the instructions. ✓
3. The control and closures of traverses were adequate. (Par. 12, 29.)  
*No closures listed*
4. The amount of vertical control that the Manual specifies for -contours-~~formlines~~ was accomplished. (Par. 18, 19, 20, 21, 22, 23.) ✓  
*See also descriptive report for T 6455 (1935)*
5. The delineation of -contours-~~formlines~~ is satisfactory. (Par. 49, 50.) ✓
6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) *None submitted*
7. High water line ~~on marshy and mangrove coast~~ is clear and adequate for chart compilation. (Par. 16a, 43, 44.) ✓
8. The representation of low water lines, reefs, ~~coral reefs~~ and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.) *Low water line transferred from hydrographic surveys (See D R, page 4)*
9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.) -  
*see reverse side*
10. ~~The span, draw and clearance of bridges are shown.~~ (Par. 16c.)
11. Locations and elevations of summits are given. (Par. 19, 51.) ✓
12. ~~The tree line was shown on mountains.~~ (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.

Paragraph 9

H499 (1855)

This survey is primarily a preliminary hydrographic survey and is of little value in making a very general comparison of a small portion of the present survey.

T1671 (1877-8)

This survey is on a scale of 1:20,000 whereas the present survey is on 1:10,000. The general shore line is in good agreement on the two surveys. Details however are somewhat different. There are many man-made changes such as docks and piling. The present survey shows that between Gertrude Island and McNeil Island it is dry at low water whereas T1671 showed a passage between the two islands. Details south of Pitt Island are also somewhat different. Several rocks shown on T1671 are found to be within the L. W. Line on the present survey. Details around the penitentiary are also quite different.

T1671-a (1910)

These revision surveys of T1671 do not show any important changes in the survey of 1877. T6449 supersedes T1671-a-b and H499 in part.

A comparison of the present survey with Chart 6460 shows changes in detail as noted on page 4 of the Descriptive Report.



13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.) ✓
14. ~~The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.~~
15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of IMs and DPs, 68.) *None submitted*
16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 16d, e, 60.) ✓
17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) *5 meridians - 1 meridian 12.45' East declination on chart  
No note of having checked declinatoire*
18. The geographic datum of the sheet is *N.A. 1927 (Adjusted)* and the reference station is correctly noted. (Par. 34.) ✓
19. Junctions with contemporary surveys are adequate. ✓  
*Joins T 6453 (1935) and T 6451 (1935) on the South*
20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.) ✓
21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 39, 40, 41, 42, 45, 46, 47, 48, 49, 50.) ✓
22. No additional surveying is recommended. ✓
23. The Chief of Party inspected and approved the sheet and the descriptive report after review by ✓
24. Remarks:

Reviewed in office by *Chas. R. Bush Jr.* June 30, 1936.

Examined and approved:

*C. H. Green.*  
Chief, Section of Field Records

*L. O. Polbat.*  
Chief, Division of Charts

*Fred. L. Peacock*  
Chief, Section of Field Work

*G. H. de*  
Chief, Division of Hyd. and Top.