

7058a&b

Diag. Cht. No. 6157(Insert)

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. A-47 & B-47 Office No. T-7058a & b

LOCALITY

State IDAHO

General locality PEND OREILLE LAKE

Locality IDLEWILD BAY TO CAPE HORN

1947

CHIEF OF PARTY

E.R. McCarthy

LIBRARY & ARCHIVES

DATE May 24, 1948

8-1870-1 (1)

7058a&b

FORM 537a
(9-24-47)

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

REGISTER NO. T-7058a and T-7058b

TOPOGRAPHIC TITLE SHEET

FIELD NO. A 47 and B 47

Each Planetable and Graphic Control Sheet should be accompanied by this form, completed so far as practicable, when forwarded to the Washington Office.

STATE

IDAHO

GENERAL LOCALITY

PEND OREILLE LAKE

LOCALITY

~~SOUTHERN END OF PEND OREILLE LAKE~~ IDLEWILD BAY TO CAPE HORN

SCALE

1:10 000

DATE OF SURVEY

Sept., Oct., Nov., 19 47

VESSEL

SHORE PARTY

CHIEF OF PARTY

E. R. McCARTHY

SURVEYED BY

W. E. RANDALL

INKED BY

W. F. DEANE AND V. E. SCOTT

HEIGHTS IN FEET ABOVE, MHW OR ~~MWLL~~*

☒ TO GROUND

☐ TO TOPS OF TREES

~~SA LAKE LEVEL OF 2048.2 FEET ABOVE SEA LEVEL DATUM~~

CONTOUR

APPROXIMATE CONTOUR

FORM LINE INTERVAL _____ FEET

PROJECT NUMBER

CS-331

REMARKS

* ~~MWLL~~ - Mean winter lake level is 2048.15 feet above sea-level-datum

Field inspection of aerial photographs was also made of this area. Ph 15(47)

DESCRIPTIVE REPORT

to accompany

TOPOGRAPHIC SHEETS REG. NOS. T-7058a AND T-7058b

PEND OREILLE LAKE, IDAHO

PROJECT CS-331

1947

E. R. McCARTHY, CHIEF OF PARTY

1. INSTRUCTIONS - These surveys were executed in compliance with the Director's Instructions dated 2 June 1947 and Supplemental Instructions dated 18 June 1947.

2. SCOPE - Sheet T-7058a...Lat. $47^{\circ} 56.9'$ to $47^{\circ} 59.1'$
Long. $116^{\circ} 29.5'$ to $116^{\circ} 34.7'$
Sheet T-7058b...Lat. $47^{\circ} 59.1'$ to $48^{\circ} 00.7'$
Long. $116^{\circ} 26.3'$ to $116^{\circ} 30.6'$
Some of the survey was graphic triangulation only.

3. CONTROL - The control was based on second-order triangulation by this party in 1947.

4. METHODS - Standard planetable procedures were used throughout and all traverses closed within the allowable limit. In, general, the location of stations was accomplished by the intersection method. The only marked topographic station on T-^{7058a}~~5078a~~, PATH, was located by a three-point fix. Marked stations on T-^{7058b}~~5078b~~ were located by intersection. Stations in Buttonhook Bay were located by stadia from topographic station WAD which had previously been located by stadia from triangulation station BUTTON.

5. GENERAL - The shoreline shown is at the Mean Winter Lake Level (2048.15 feet above sea-level-datum).

Sheet T-7058a

From triangulation station HORN westward to triangulation station RANCH the shoreline consists of rock cliffs and faces with broken-off rocks and boulders; there is little beach. Westward from RANCH there is a wide beach consisting of broken rock and gravel. At triangulation station SILVER there is a large rock outcrop forming a point with deep water immediately offshore. Between SILVER and triangulation station MODEL the shoreline consists of rock outcrop and small stretches of steeply sloping beach of broken rock and boulders. Westward from MODEL the shoreline is gravel and dirt forming a beach. There are practically no broken rocks or boulders in the vicinity of Bayview and the David Taylor Model Basin Field Station. The water area of Bayview is full of piling, semi-permanent floating piers, and houseboats. Lines of piling alongside which the floats are secured were located by stadia. The aerial photographs of the area show clearly the congestion here.

Piers and waterfront facilities of the D.T.M.B.F.S. have been tied in by locations of corners. The southeast corner of the boat sheds were the ones located by stadia; aerial photographs should be consulted for outlines.

Eastward from the D.T.M.B.F.S. along the south shore of Squaw Bay the shoreline consists of sand and gravel beach. From triangulation station SKEET southward the shoreline is of smooth broken rocks (up to 12 inches in diameter). From triangulation station LEIBERG south and west the beach is gravel and sand; there is a small artificial pool about 0.1 miles southwest of LEIBERG. Southwest of triangulation station PICNIC the beach is gravel and broken rocks all the way to triangulation station BUTTON except for the small sand and gravel beach in the cove at topographic station BED. The shoreline of Buttonhook Bay is dirt and grass around to topographic station WAD where there is a boulder area. Eastward of WAD the shoreline consists of large broken rocks and boulders which have been deposited by slides. Much of the mountainsides are bare and slides are frequent.

Eastward from triangulation station IDLEWILD the shoreline is cliff and face rock with no beach. At topographic station OAK the tailings of a new mine are being dumped into the lake.

From triangulation station BERNARD for 600 meters east the shoreline is steep and is lined with boulders up to 6 feet in diameter. Eastward is Whetstone Beach, named for the whetstone-shaped rocks in the vicinity. There is some gravel between topographic station PATH and triangulation station SCENIC.

Sheet T-7058b

Northeastward from SCENIC the shoreline is broken rock and gravel; a rocky point juts out about 150 meters from the station. At topographic station JAP another rocky point juts out, northeast of which the beach is steeper and consists of broken rock and boulders to the abandoned cement plant at topographic station HAG.

Between HAG and triangulation station CEMENT the shore is made up of large boulders and broken rock with a slide area from the rocky point at topographic station MEC to CEMENT. Northeastward the shoreline becomes a gravel and sand beach with cottonwood trees on the gentle slope. In this area is the village of Lakeview.

Continuing from topographic station FAR which is the west corner of the Lakeview Inn the beach narrows and changes to broken rock and boulders up to 6 feet in diameter. From topographic station VIEW the beach is gravel and broken rock to topographic station EAR where the shoreline survey ends.

6. LANDMARKS - Landmarks for charts will be submitted on Form 567. (C.L. No 703) 1948

7. GEOGRAPHIC NAMES - Geographic names will be submitted in a separate report. Because of conflicting nomenclature all names on these sheets have been noted in pencil 817

8. STATISTICS -

	T-7058a	T-7058b
Shoreline in statute miles.....	11.7	3.4
Graphic control (excluding shoreline) in stat. mi.....	0.6	4.6
Area in square statute miles.....	0.7	0.3
Number of marked topographic stations.....	1	4
Number of unmarked topographic stations.....	52	25

Respectfully submitted

William F. Deane
 William F. Deane
 Lieut., USC&GS

Approved and Forwarded:

William F. Deane
 for E. R. McCarthy
 Lt. Comdr., USC&GS
 Chief of Party

Note: This report was written by Lieut. (jg) W. E. Randall who actually made the survey. After revisions of a minor nature by Lieut. Deane the report was ready for forwarding and in the absence of the originator was signed by Lieut. Deane.

SHORELINE COMPILATION T-7058a and T-7058b

Division of Photogrammetry;
Graphic Compilation Section

The details shown in green have been added to these graphic control boards from field inspection photographs. The photographs were flown by the Air Force in August 1944 and field inspected in September, October and November 1947 by Lt. Comdr. E. R. McCarthy, Chief of Party.

Three radial plots were layed and the detail compiled in the projector.

Photographs Nos. 45V-176, 45V-177, 45V-184 and 45V-185 were used in the radial plot in the area between Triangulation Station Mine and Topographic Station Neo. Triangulation Station Copper, Sub-stations Bernard, Mine, Picnic and Sieberg and Hydrographic Stations Rag and Path, were used as control.

Photographs 45V-186, 45V-187, 45V-188, 45V-173 and 45V-174 were used in the radial plot in the area between Triangulation Station Salee and Triangulation Station Horn. Triangulation Stations Salee, Horn, Model and Naval, Sub-stations Crag, Tumble, Ranch, Silver, Basin and Sieberg were used as control.

Photographs 45V-89, 45V-90, 45V-91, 45V-102, 45V-103 were used in the radial plot in the area between Triangulation Station Cedar and Hydrographic Station Ear. Triangulation Station Cement and Cedar, Sub-stations Gwin and Vulcan and Hydrographic Station Hag were used as control.

Photograph 45V-186 was used for the compilation of the shoreline between Hydrographic Station Nay and Triangulation Station Horn. This area was covered by the plot for the area between Triangulation Stations Salee and Horn.

Photograph 45V-186 was used in the projector in adding detail in the Bayview area. Triangulation Points Model and Naval and Sub-station Basin were used as control.

Sub-station Twin was not held in the plot for the area between Triangulation Station Cedar and Hydrographic Station Ear. The Point is plotted from the coordinates and circled in green ink on the Graphic Control Board. The radial plot position for the point picked on the field photograph, is circled in pencil with the note "Rock outcrop on beach," on the Graphic Control Board.

On Field Photo 45 V 186, near station Silver, 1947 there appeared a note: "New Breakwater off pier, see topo sheet"; near station Ranch, 1947, note: "New piling and floats, see topo sheet"; and on Field Photo 45 V 173, near station Horn, 1947, note: "new rock pier and piling, see topo sheet". There were no references to these notes found on topo sheet T-7058a or T-7058b.

Submitted by

Approved by
L.C. Land, 1009 Jones
4/27/48

L.C. Blankenhorn

Letter: Comdr. McCarthy, 2 Sept, 1948.
"This construction was in a preliminary stage and was not finished. All of that started was not adequately secured and was destroyed by the flood."

PICNIC { SCALE FACTOR
LAT. 1000
LONG. 998

LIEBERG { SCALE FACTOR
LAT. 1002
LONG. 1003

MINE { SCALE FACTOR
LAT. 1002
LONG. 1004

MAP T. 70580

PROJECT NO. Ph-15(47)

SCALE OF MAP 1:10,000

SCALE FACTOR 1.000

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y-COORDINATE LONGITUDE OR X-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION (Total)	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
MINE, 1947 (sub sta)	Comp. Pg. 4	N.A. 1927	47-57-25.687 30.886 116-31-47.064 20.747		1853.2	793.4 1059.8 976.4 268.4	794.98 1061.92
Bernard, 1947 (sub sta)	" Pg. 5	"	47-57-02.405 116-31-05.292 20.750		1244.8	74.3 1778.9 109.8 1135.2	74.4 1782.46
Scenic, 1947 (sub sta)	" Pg. 5	"	47-57-12.153 116-29-18.203 20.749		1244.9	375.4 1477.8 377.7 867.2	110.2 1139.74
LEIBERG, 1947 (sub sta)	T-5078b		47-57-54.081 30.886 116-32-27.730 20.744		1853.2	1670.34 182.81	1673.68 183.18
PICNIC, 1947 (sub sta)			47-57-39.224 30.886 116-33-16.963 20.745		1244.6	575.23 669.41	576.95 671.42
BASIN, 1947	sub sta		47-58-33.446 30.886 116-32-51.789 20.746		1244.7	1211.47 641.69 351.89 892.80	351.18 891.01
TWIN 1947	sub sta		47-59-40.276 30.886 116-26-21.428 20.732		1244.8	1033.01 820.14 1074.41 170.34	
VULCAN	sub sta		47-58-46.347 30.886 116-26-37.806 20.739		1243.9	1243.96 609.19 444.24 799.67	
RANCH 1947 (sub sta)			47-58-54.386 30.886 116-30-42.709 20.737		1244.3	1431.47 421.69 784.06 460.28	
Tumble (sub sta)			47-59-45.561 30.886 116-29-44.635 20.732		1244.2	1679.76 173.39 885.66 358.56	
C.R.A.G (sub sta)			48-00-05.602 30.886 116-30-05.890 20.730		1243.9	1407.19 445.96 925.37 318.55	
SUNER (sub sta)			47-58-55.192 30.886 116-31-20.826 20.739		1243.8	173.02 1680.14 122.09 1121.7	
					1244.2	1704.66 149.5 431.87 812.35	

1 FT. = 3048006 METER
COMPUTED BY: GAW 3/29/48

DATE

CHECKED BY:

DATE

M-2388-12

GEOGRAPHIC NAMES

Survey No.

T7058a

Name on Survey

T7058b

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
Pend Oreille Lake ✓										1
Idlewild Bay ✓										2
Cape Horn ✓										3
Scenic Bay ✓										4
Echo Bay ✓										5
Buttonhook Cove ✓										6
Bayview ✓										7
Leiberg Pt ✓										8
Echo Pt ✓										9
Whetstone Beach ✓										10
Graham Pt ✓										11
Lakeview ✓										12
										13
										14
										15
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										26
										27

approved on H-7599

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. T-7058a & b

FIELD NO. A-47 & B-47

Idaho, Pend Oreille Lake, Idlewild Bay to Cape Horn
Surveyed in Sept. to Nov., 1947 Scale 1:10,000
Project No. CS-331

Plane Table Survey

Aluminum Mounted

Chief of Party - E. R. McCarthy
Surveyed by - W. E. Randall
Inked by - W. F. Deane and V. E. Scott
Reviewed by - G. F. Jordan, March 6, 1950
Inspected by - R. H. Carstens

1. The control for this survey originates with triangulation of 1947.
2. The shoreline in green was compiled in the Washington office from air photographs of 1944 which were field-inspected during the present survey. The compilation is discussed in the attached report "Shoreline Compilation".
3. The present survey (T-7058a) covers the southern limit of the project at the south end of the lake. An adequate junction is effected between T-7058b and T-7059 (1947) on the north.
4. No prior topographic surveys of the area were executed by this Bureau. A comparison with contemporary hydrographic survey H-7599 (1947-48) reveals no conflicts.
5. No charts of the area have been published by this Bureau. Chart compilation of the area is in progress at the present time.
6. The magnetic meridian on T-7058a reveals a declination comparable to the value obtained from Isogonic Chart 3077.
7. The projection was not accurately inked on T-7058a. The longitude line at long. $116^{\circ} 34'$ is in error as much as 0.7 mm.