6906
6907

6380-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. A-42, B-42 Office No. T-6906, T-6907

LOCALITY

State Washington

General locality San Juan Archipelago

Locality South Shore San Juan Island

194 2-'43

CHIEF OF PARTY

J.C.Bose

LIBRARY & ARCHIVES

DATE May 22, 1943

B-1870-1 (1)

6906
6907

Applied to chart 6382 v June 17, 1943. L.A.M.

" " " 6380 Dec. 1, 1943 HHE.

Appd to cht 154 1:25,000 insert 11-6-61 RKO

Form 537a
Ed. Nov. 1929

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 16906

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. A - 42 16906

REGISTER NO.

State Washington ~~CONFIDENTIAL~~

General locality San Juan Archipelago

Locality South shore of San Juan Island

Scale 1:10,000 Date of survey Nov. 1942 - Feb., 1943.

Vessel M. V. PATTON

Chief of party J. C. Bose

Surveyed by M. T. Paulson and C. J. Wagner

Inked by M. T. Paulson

Heights in feet above ~~to~~ ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval ____ feet

Instructions dated September 22, 1939 and Director's Instructions 19 from Supervisor, N.W. District, dated October 24, 1942.

Remarks:

GPO

Form 537a
Ed. Nov. 1929

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. B - 42 6907

REGISTER NO. T6907

State Washington ~~CONFIDENTIAL~~

General locality San Juan Archipelago

Locality South shore of San Juan Island.

Scale 1:10,000 Date of survey Nov. 1942 - Feb., 1943

Vessel M. V. PATTON

Chief of party J. C. Rose

Surveyed by M. T. Paulson

Inked by M. T. Paulson

Heights in feet above ~~to~~ ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval ..... feet

Director's Instructions dated Sept. 22, 1939 and Instructions from Supervisor, N. W. District, dated October 24, 1942.

Remarks:

This survey was begun under C. M. Durgin, Chief of Party, prior to transfer of command on November 12, 1942.

REG. NO. T6907

~~CONFIDENTIAL~~

T6966
T6967

~~CONFIDENTIAL~~

DESCRIPTIVE REPORT

To accompany

TOPOGRAPHIC SHEETS "A-42" & "B-42"

Scale 1:10,000

PROJECT CS-241

Field Season - Winter 1942 - 43

U.S.C. & G.S. M. V. PATTON J. C. Rose, Chief of Party.

AUTHORITY:

Instructions dated September 22, 1939, Project HT-241.

CONTROL:

Sheet A - Triangulatinn executed by L. C. Wilder, 1940-41, C. M. Durgin, 1942, and J. J. Gilbert, 1897.

Sheet B - Triangulation executed by C. M. Durgin, 1942.

LOCALITY AND GENERAL DESCRIPTION:

Sheet A - 42 covers the SE end of San Juan Island from Eagle Point east to Cattle Point, thence northwest to Mulno Cove in Griffin Bay. The shore line from Eagle Point to Cattle Point varies from a very steep rocky bluff in the west to a low grassy shore line about midway between High and Pole; thence a very high steep clay bank with a sandy beach in the east. From Cattle Point to Mulne Cove, the shore line varies from a rocky shore line, heavily wooded, to one which is grassy and cleared, with cultivated lands only partly wooded. A high ridge runs through the center of this end of the island, of which the south slope is grass pasture land, and the north slope is heavily wooded with coniferous trees at east end to grassy and cultivated lands partly wooded toward the west end.

Sheet B covers the southwest shore of San Juan Island from a point 1.8 nautical miles north of Pile Point southeast to Eagle Point. The shore line is generally rocky with a few small sand and gravel beaches, except for False Bay which has a low clay bank at the north end. Nearly all of False Bay bares at low water. Most of the inshore lands are grass pastures or cultivated lands with heavily wooded portions northwest from False Bay, while to the southeast there is little wooded area.

SURVEY METHODS:

Ordinary plane table methods were used. Most of the south shore of San Juan Island had to be located by traverse, but three-point fixes were available along the shore of Griffin Bay.

On account of the peculiarity of the tide during the months in which the survey was in progress, namely, that all lower low waters occurred during hours of darkness, it was impossible to locate the low water line and other low water detail.

Elevations were determined at several points, as shown, but it was impossible to delineate the contours without a large amount of extra field work. The PATTON was principally engaged in co-operating with the EXPLORER on wire drag surveys, and there was not sufficient time to do much contouring. The 1897 survey of J. J. Gilbert seems to be quite accurate, and, therefore, the 50 foot curves from sheet No. 11 and No. 12, 1897 have been superimposed with necessary modifications.

Kelp has been shown in its general and conspicuous location. It appears to be a general line about 50 to 100 meters offshore on sheet B, while on sheet A the kelp occurs generally in shoal water and around rocky islets.

CLOSING ERROBS:

Sheet A.

△SAN JUAN to△CATTLE POINT 2 - 5 meters in 3.2 nautical miles (adjusted).

△CATTLE POINT 2 to△TRAP - error negligible.

△TRAP to△AVENUE - error negligible.

△AVENUE to△HARBOR ROCK - error negligible.

△HARBOR ROCK to△LOW POINT - 3 meters in 2.8 nautical miles.

The signals were located by plane table triangulation, traverse, and short spur traverse.

Elevations and azimuths to high points of the hills were determined from HARBOR ROCK, TOM, and HALFTIDE REEF by vertical angles and were found to be in perfect agreement.

Traverse was run to locate the center line of the road from BOLDA, PICKETT'S MON., and PILE POINT and checked by plane table triangulation at latitude 48° 29' longitude 123° 01'.8. Differences in roads between this survey and that of 1897 are noted to be mainly regrading and straightening.

Sheet B.

△EDWARDS 2 to△PILE POINT - 6 meters in 2 nautical miles (adjusted).

△PILE POINT to△SAN JUAN - 8 meters in 3 nautical miles (adjusted).

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Signals were located by traverse of line or short spur traverse. Time did not permit the traversing of roads northwest from False Bay. To the southeast of False Bay the road has been straightened and graded.

COMPARISON WITH PREVIOUS SURVEYS:

Sheet A: There has been little change in the rocky shore line since sheet No. 12, 1897, was made. The surveys are in good agreement. Several rocks were not seen by the present topographer because of lack of low tide during the days worked. In some instances, rock ledges are shown considerably wider on the old surveys, which were probably surveyed at lower tides.

The following rocks and shoals were shown on the old survey, but were not visible on the present survey:

Kelp patch located 1600 meters SE from SAN JUAN and about 160 meters off shore, but area should be developed for a shoal rock.

The kelp patch located 380 meters off shore about 250 meters SE from SAN JUAN. This is a new area not shown on old topographic sheet.

The large rocky ledge area around Cattle Point could not be verified at high tides but probably exists.

Two rocks 520 meters south from Harbor Rock were not located as tides were not low enough at the time of that survey to make them visible.

North Pacific Rock 1940 meters west from Harbor Rock in Griffin Bay and the shoal area 100 meters southeast of Half Tide Reef were not located.

There is an airplane bomb target constructed on Hope Reef.

Sheet B: From EDWARDS 2 to Pile Point the new survey is in good agreement with the topographic sheet No. 11, 1897.

Attention is called to the changes in Kanaka Bay. The shoal areas were not outlined because of the high tides, but the centers of the reefs were located. There are 2 lines of mooring piles used by small craft and fishing boats. There is a small dock as shown and 2 oil fuel tanks. In False Bay 3 piles were located but not shown in the old survey.

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JUNCTION WITH ADJOINING SHEETS:

Sheet A - 42 joins B - 42 at Eagle Point.

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GEOGRAPHIC NAMES:

No changes in geographic names as charted are recommended.

LANDMARKS:

Sheet A - 42:

1. A prominent object that should be charted is Pickett's Monument. This monument is on top of a high clear ridge and can be seen on both the southwest side and the northeast side of this end of the island. It is a stone obelisk.

2. There are two radio transmission poles near Cattle Point that are very prominent. These poles are for radio direction transmission wires but at present have been removed because of radio silence.

Plotted south mast on ch. 6380

Sheet B - 42:

1. Two prominent land marks are the oil tanks in Kanaka Bay. The SE'ly tank only has been plotted because they are only 4 meters between centers and from a short distance off shore they appear as one tank.

Plotted TANKS on Ch 6382

MAGNETIC DECLINATIONS:

The magnetic meridian was drawn with the declinitoire at several triangulation stations. The declinitoire was standardized after the end of the season at INGLEWOOD, and the index correction found to be +15'.

Sheet A - 42:

Station	Scaled	Corrected Values
SAN JUAN	22° 34'	22° 49'
GULL	22 54	23 09
CATTLE POINT 2	23 54	24 09
TOM	23 45	24 00
AVENUE	23 35	23 50

Sheet B - 42:

PILE POINT	23 32	23 47
EDWARDS	24 07	24 22
SAN JUAN	24 22	24 37

Approved: J. C. Bose
Commanding Officer

Marvin T. Paulson
To [illegible]

STATISTICS:

Sheet No.	Stat. Mi. Shore line	Stat. Mi. Roads	Area Sq. Stat. Mi.
A - 42	14.0	3.7	3.7
B - 42	10.8	2.2	5.0

	Remarks	Decisions
1		
2		U.S.G.B.
3		485230
4		484229
5		"
6		"
7		"
8		"
9		"
10		"
11		484230
12		"
13		"
14		"
15		"
16		"
17		"
18		"
19		"
20		U.S.G.B.
21		
22		
23		
24		
25		
26		
27		
M 234		

GEOGRAPHIC NAMES

Survey No. T6906
T6907

Name on Survey	A. On Chart No.	B. On previous survey No.	C. On U. S. quadrangle Maps	D. From local information	E. On local Maps	F. P. O. Guide or Map	G. Rand McNally Atlas	H. U. S. Light List	K.	
Washington										1
San Juan Archipelago										2
San Juan Island										3
Goose Island										4
Cattle Point										5
Harbor Rock										6
Fish Creek										7
Griffin Bay										8
Halftide Rock										9
Mt. Finlayson										10
Eagle Pt.										11
Eagle Cove										12
Hope Reef										13
Low Point										14
Jansen Bay										15
Mulno Cove										16
False Bay										17
Kanaka Bay										18
Pile Pt.										19
Haro Strait										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red approved by L. Heck on 10/25/41

M 234

FORM M-238

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H ~~CONFIDENTIAL~~
No. T T6906 T6907 Combined Report

received May 29, 1943
registered June 5, 1943
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			
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RETURN TO

82	R.W.Knox

RWK