

3228

Diag. Chart No. 6002-Z

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey *Hydrographic*  
Field No. .... Office No. *3228*

LOCALITY

State *Washington*  
General locality *Friday Harbor*  
Locality *South Channel*  
*from Cow Point to Stearns*  
*Bluff.* 1901

CHIEF OF PARTY

*G. F. Rude.*

LIBRARY & ARCHIVES

DATE .....

3228



3228

C. & G. SURVEY,  
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1971-1911  
Acc. No.

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*O. W. Pittmann*  
Superintendent.

State: *Washington*

DESCRIPTIVE REPORT.

*Hydrographic Sheet No. 3228*

LOCALITY:

*South Channel from Coast*

*Point to Stearns Bluff*

*Grays Harbor*

*Original*

*1901*

CHIEF OF PARTY:

*G. T. Rude Capt*

3228

Descriptive report to accompany

Hydrographic Sheet No. *X 3228*

South Channel from Cow Point to Stearns Bluff, Grays Harbor, Wash.

C. & G.S. Stmr. "McArthur",

January & February, 1911

Gilbert T. Rude, Assistant,  
Chief of Party,

Henry Bernhardt, Mate,  
Hydrographer,

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The hydrography on this sheet covers the South Channel from about 1/4 mile east of Cow Pt. to abreast of Stearns Bluff.

Lines were run east and west, i.e. with trend of current on an average of 50 metres apart, and these again crossed by lines running approximately at right angles from bank to bank, and on an average are 150 metres apart. The average width of channel is less than 200 metres with rather uneven bottom. Several obstructions in the shape of sunken snags were found in this part of the channel, and are mostly covered at high tide, making navigation hazardous for crafts propelled by power. The south side of channel is lined with numerous fish traps extending from the shore line to edge of mud flats which bare at low tide just inside the outer end of traps. The bottom throughout was found to be mostly (soft) mud and sand. The flats on the north side of channel are unmarked, and at high tide difficult to locate, but by keeping the outer end of fish traps on the south side close aboard, there should be no trouble in keeping in channel. The tides rush through the channel very strong, the ebb being the swiftest, and with the wind in opposite direction creates quite a choppy sea.

The datum plane for the reduction of soundings was obtained by simultaneous readings of a tide staff erected at West Aberdeen, with the automatic gauge at Westport.

Part of the work was accomplished by use of gasoline launches and part by use of ship's whaleboat, a good deal of trouble being encountered trying to hire a suitable launch for the purpose, as the owners of such appeared unwilling to hire their launches out without a contract and written guarantee in their favor.

Owing to the dense smoke from the numerous lumber mills in operation, and much misty and thick weather during this time of year, the seeing was often very bad in this locality.

Approved

*Gilbert J. Ride*, Assistant  
Chief of Party

*Henry Bernhard*, Mate  
Hydrographer

# 3228

Statistics for Hydrographic Sheet X.

Date	Day	Boat used	Statute Miles of Sounding	No of Sounding	No of Positions
Jan. 13th, 1911	a	Gas, Launch "Dove"	6.3	170	26
" 19th, "	b	Gas, Launch "Logger"	13.8	427	80
" 20th, "	c	"	12.0	321	58
" 21st, "	d	"	6.8	212	40
" 23rd, "	e	"	15.2	446	79
Feb. 7th, "	f	Gas, Launch "Swift"	1.8	53	17
" 8th, "	g	Whaleboat	4.0	207	32
" 11th, "	h	"	15.0	734	81
" 15th, "	i	"	10.5	560	75
" 25th, "	n	"	9.2	450	72

VEC  
Apr. 25, 1911.

HYDROGRAPHIC SHEET 3228.

*W. S. D. in*  
*ARB*  
*4/26/11*

Stearns Bluff to Aberdeen, South Channel, Grays Harbor,  
Washington, By Asst. G. T. Rude in 1911.

TIDES.

	Westport ft.	West Aberdeen ft.
Mean lower low water, or plane of reference on staff	4.2	1.6
Lowest tide observed	" "	1.1
Highest " "	16.9	12.7
Mean range of tide	6.9	7.8

Coast and Geodetic Survey  
APR 25 1911  
TIDAL DIVISION

Hyd Sheet No 3228

Aug 18 1911

The ground within the limits of the  
work is well covered.

The records were kept in a satisfactory  
manner.

H. L. Linn

Verified;

Sept 14<sup>th</sup>, 1911

R. L. Johnston.