

SHA  
1910  
H

3195

C. & G. SURVEY  
LIBRARY AND ARCHIVES  
NOV 25 1910

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Maine*

DESCRIPTIVE REPORT.

*Hyd* Sheet No. *3195*

LOCALITY:

*West Penobscot Bay*

1910

CHIEF OF PARTY:

*N. H. Heck*

C  
D  
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S

# 3195

HYDROGRAPHIC SHEET

NUMBER 100

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U. S. DEPARTMENT OF COMMERCE  
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NOV 25 1910  
Acc No.

WORK OF THE WIRE DRAG PARTY OF ASSISTANT N. H. HECK, 1910.

\*\*\*\*\*

Work begun, 1910, June 21st; ended, July 7th.

\*\*\*\*\*

PERSONELL OF PARTY, 1910.

\*\*\*\*\*

N. H. Heck, Assistant, Chief of Party.  
Geo. Olsen, Watch Officer, and  
Jean. H. Hawley, Operating Drag.

\*\*\*\*\*

Officers besides those mentioned above:

P. S. Donnell, Aid.  
L. M. Fisher, D. O.  
D. M. Kyle, D. O.  
E. E. Reese, D. O.  
J. A. Smith, D. O.

\*\*\*\*\*

TIDE GAGE at Rockland, Maine.

	Staff Reading.	Above M. L. W.
Highest Tide Observed ----	11.5	917
Lowest Tide Observed ----	1.5	80.3

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DESCRIPTIVE REPORT

Department of Commerce and Navigation

Hyd. sheet "B"

C. & G. SHREVEY,  
 NOV 15 1905

Practically no finished work was done on this sheet which was however requested to be prepared with reference to possible future work in this vicinity.

At the beginning of the season in June and July work was done to locate three reported shoals. As the drag set at an effective depth greater than 36 feet passed over two of the spots they were not located. A depth of 14 feet was found near the usual path of the Eastern S.S. Co.'s largest vessels where the chart showed 23 ft.

At the close of the season an examination was made of Moxy's Reef and a long ridge running south from it as less depth than charted was reported. This was found to be true in several places on the ridge but no less was found than the least depth charted on the reef.

H. 3195.

Wire drag sheet.

Penobscot Bay, Recommended for approval.

Examined in Div.  
 of Hydrog. & Topog.

# 3195

C. & G. SURVEY,  
LIBRARY AND ARCHIVES

NOV 25 1910

Acc. No.

B

## STATISTICS TO ACCOMPANY HYD. SHEET

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WIRE DRAG PARTY; 1910. N. H. HECK; ASST. Chief of Party.

Launches "KATHERINE" and "FRANCIS EATON"; Guiding Launches.  
"RUBY M." and "HELEN MARGARET"; End Launches.

\*\*\*\*\*

DATE, 1910	LETTER.	VOL.	ANGLES.	SOUNDINGS.		MILES.	LENGTH of DRAG.
				Angl.	No.		
June 31	a	1	96	0	0	3.5	1500
" 22	b	1	72	0	0	3.0	900
July 6	c	1	156	4	2	2.0	2000
" 7	d	1	42	2	1	1.0	900
Nov 22	e	1	162	14	7	2.5	1200
Totals	4	1	366	6	3	9.5	

Total Angles 372  
Square Miles 1.0

# 3195

MAINE.  
West Penobscot Bay.

Department of Commerce and Labor

E. H. Keck, 1910.

PLANE TABLE POSITIONS.

Object and Description	Lat.	D. M.	Long.	D. P.	Remarks.
Observation Tower, foot of Mt. Reattie. (HIGH)	44°13'	637	69°03'	354	Center.
Spire, Baptist Church, Camden. (BAP)	44°12'	955	69°03'	1188	Center.

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Acc. No.

Diag. Cht. No. 1203-2

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

C. H. Tittmann  
Superintendent.

State: Maine

## DESCRIPTIVE REPORT.

Hyd Sheet No. 3195

LOCALITY:

Coast of Maine

West Penobscot Bay

Rockland Harbor  
to  
Compass Island

1901

CHIEF OF PARTY:

N. H. Hock, Assistant

3195

# 3195

HYDROGRAPHIC SHEET NUMBER 3195, from Cwlshead I. H. to  
Compass Island and Dillinghams Ledge.

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NOV 10 1911  
Acc. No.

Scale = 1/20000

Work of the Wire Drag Party During the Season of 1911, from April 10, 1911,  
to Oct. 28, 1911.

\*\*\*\*\*

N.H.Heck, Assistant, Chief of Party.  
George Olsen, W.O., Operating Drag No. 1.  
D.M.Kyle, Aid and M.L. Button, Aid, Operating Drag No. 2.

\*\*\*\*\*

Officers besides those mentioned above.

H.L.Cotton, Aid.  
M.E.Lutz, Aid.  
J.A.Daniels, Aid.  
G.C.Mattison, Aid.  
H.T.Kelsh, Aid.

\*\*\*\*\*

Tide Gauge at Camden, Maine, At Gilkey Harbor, Maine, and at  
South Brooksville, Maine.

At Camden, Maine.

Plane of reference.	Gauge reading	-----5.0
Lowest tide observed.	" "	-----3.5
Highest tide observed.	" "	-----15.5

At Gilkey Harbor, Maine.

Plane of reference.	Gauge reading	----3.5
Lowest tide observed.	" "	----2.7
Highest tide observed.	" "	----14.7

At South Brooksville, Maine.

Plane of reference.	Gauge reading	---- 1.0
Lowest tide observed.	" "	....-0.3
Highest tide observed.	" "	---- 11.9

The greater party of the area of this sheet, which includes West Penobscot Bay from Owlshead L. H. to Compass Id. and Dillinghams Ledge is deep water and was covered rapidly with a 12000 ft. drag.

The exceptions are the channels between the islands from Mark to Job's Ids. - Between Pulpit Harbor and Egg Rock- Western approach to Fox Id. There-fore- between Posterfield Ledge and 14 ft. spot HS buoy- and Moxey's reef and its southern extension, the greater part of which was covered in 1910.

A description of the shoals and obstructions beginning at the SW end of the sheet follows:

An obstruction apparently a wreck with a least depth of 33 ft. was found in 12 fathoms about 980 meters N'ly from Owlshead L.H.

A depth of 41 ft. was found about 700 m. SE'ly from highest point of Brewsters Ledge, 8 $\frac{3}{4}$  fm. charted. and a ridge with 27-38 ft. was found to extend NE'ly from same ledge, the 27 ft. spot lying 240 meters from the ledge

A group of uncharted pinnacles was found NE'ly from Indian Id. L. H. The largest, 60 m. long in NE-SW direction & 10 m. wide with 31-35 lies 800 m ESE from L. H. A 35 ft. pinnacle and one with 34 ft, lie respectively 1020 and 550 meters from the L. H. about ExN.

In the vicinity of Lasell's Id. a ridge was found to extend NW'ly from the western point of a small cove, with 16 ft. 300 m. from the point. This was reported and charted as 14 ft. owing to an erroneous tidal reducer.

The channel south of Lasell's Id. was examined and found to be good for a draft of 28 ft. though it must be used with caution as it is very narrow. A long ridge with depths of 8-9 ft. over a number of boulders and pinnacles lies between this channel and Goose Rock

The channel north of Mark Id. was examined and 29 ft. was found where 5 1/2 fms. was charted.

A number of pinnacles were found in the channel between Lasell's Id and the ridge joining Mouse Id. and Saddle Id. as follows:



34 ft. small pinnacle	360 m	NW'ly from Southe end, Goose Id.
17 ft. " "	300	WNW" " " "
29 " " "	680	WxN " " "
23 " " "	440	W'ly " " "
31 " " "	340	SxW " " "
27 "	680	SxW " " "

A ridge with 11 ft. at the south end extends 200 m. S'ly from South end of Mouse Id.

A wreck was found 1300 m. SxW from Goose Id. with 19 ft. least depth over it. This was reported and has since been removed by the U. S. Engineers.

An extensive ridge was found and developed, extending SSW'ly from Robinson's Rock with 35 ft. at 1100, 21 ft at 1000 and 24 ft at 740 meters from the top of the Rock.

A fock with a least depth of 28 ft. , 90 meters long (NNE-SSW) and 20 m. wide lies 1820 m, E'ly from Egg Rock. An extension of Egg Rock Ledge to the SW was found with 18 ft. 820 m. from Egg Rock.

Depths of 34 and 35 feet were found in several places between Egg Rock and North Haven Id. as follows:

35 feet 1960 and 2240 m. SSW'ly from Egg Rock

34 " 2800m SW'ly " " "

In the vicinity of Drunkards Ledge Spindle 28 ft. was found 240 meters from spindle in NNE direction.

A ridge with a least depth of 22 ft. 80 m. long in a N-S direction and 40 m wide was found 700 m. westerly from Spindle. In a previous report the extent of this shoal was exaggerated through a wrong note in the record substituting meters for feet.

A ridge running NNE-SSW'ly with depths of 15-20 ft. for a distance of 220 meters and about 50 m. wide lies in the channel between a little south of the line joining Drunkards Ledge Spindle and Fiddlers Ledge Beacon .

This ledge may be avoided by keeping within the red sector of Browns Head L. H

(3)

or running close to the Bell Buoy in the entrance.

All depths are given in feet at Mean Low water, distances are scaled from the smooth sheet in meters, and bearings are magnetic, and approximate.

~~Additional shoals. Work done after sheet was considered finished.~~

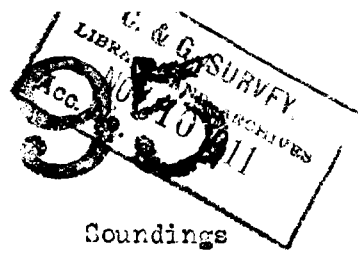
## Plane table positions of objects used as Hyd. signals

Sheet 3195

Lat	D. M.	Long	D. P.	Object and description
44° 08'	188	69° 05'	830	Pow Power ho. chy. tall Sq
10	742	04	869	Chim Chimney ho, Rockport Hbr.
10	1380	68 50	1290,	NW Gable barn, with long shed attached
11	789	53	273	Egg Rockpile on Egg Rock.

Statistics, Sheet No. 3195.  
 Drag No. 1.

3195



Date 1911	Letter	Volume	Angles	Miles	Drag lgth.	Soundings	
						Number	Angles
Apr. 10	a	1	168	7.2	2800	1	2
12	b	1	138	4.0	2000	2	4
14	c	1	24	0.5	2000	2	4
15	d	1	190	6.0	2800	3	6
17	e	1	234	6.0	1500	2	4
19	f	1	216	7.0	2800	0	0
24	g	2	162	5.0	2800	3	6
25	h	2	54	1.0	1200	0	0
26	j	2	30	1.0	2000	0	0
27	k	2	198	5.5	2800	12	26
28	l	2	84	2.0	2000	5	10
29	m	2	132	3.0	1200	1	2
May 2	n	2	42	1.2	2000	1	2
3	o	2	66	1.0	1050-900	2	4
5	p	3	138	2.2	1500	5	10
6	q	3	246	5.8	1500	10	18
8	r	3	174	6.0	2800	5	8
11	s	3	216	6.2	2800	2	6
13	t	3	144	3.8	2800	1	2
16	u	4	60	1.5	2800	1	2
17	v	4	162	5.0	2000	3	8
18	w	4	234	4.8	2000	1	2
22	x	4	180	4.2	2000	5	13
25	y	4	132	3.0	1500	1	2
26	z	4	228	4.5	1750-1000	3	6
27	a'	5	78	2.0	2000	1	2
Sept. 5	b'	5	81	7.5	12000	0	0
7	c'	5	82	8.0	12000	1	2
8	d'	5	36	0.75	12000	0	0
9	e'	5	54	5.25	12000	0	0
11	f'	5	93	4.0	12000	0	0
13	g'	5	204	5.25	1500	1	2
14	h'	6	174	5.0	2800-2000	0	0
19	i'	6	66	1.5	1200	1	2
20	k'	6	198	5.5	2800	0	2
21	l'	6	306	8.0	1400	3	6
22	m'	6	126	3.25	2000	0	0
23	n'	7	282	8.5	1400	0	0
27	o'	7	180	3.25	2000	3	10
29	p'	7	228	5.5	2100	2	4
Oct. 7	q'	7	162	3.75	2800	3	6
16	r'	8	66	1.25	1200	2	4
			6074	176		87	187

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1911		Drag 2			Soundings		
Date	letter	vol	Angles	miles	drag length	Angles	number
Sept 5	b'	1	102	7	12000	0	0
7	c'	1	103	8 1/4	12000	0	0
8	d'	1	16	1	12000	0	0
9	e'	1	65	3 3/4	12000	0	0
11	f'	1	45	3 1/2	12000	0	0
20	k'	1	72	2 1/2	2000	0	0
21	l'	1-2	378	8	2000-600	0	0
27	o'	2	246	6	2800	0	0
Oct. 21	r'	2	48	1 1/2	1600	0	0
23	s'	2	198	3 1/2	1200	8	3
27	t'	2	72	1	1400	0	0
28	u'	2	96	2	1400	2	1
			1550	48		10	4

Totals    Angles    7831  
           Miles       225  
           Soundings   91  
           Sq. miles   67

VEC  
Mar. 23, 1911.

HYDROGRAPHIC SHEET 3195.

West Penobscot Bay, Maine, by Asst. N.H. Heck,  
in 1910.

TIDES.

	Rockland ft.
Mean low water, or plane of reference on staff	1.8
Lowest tide observed " "	-0.4
Highest " " " "	13.5
Mean range of tide	9.7

Coast and Geodetic Survey  
MAR 24 1911  
TIDAL DIVISION.