O. & G. S.
L. & A.
MAR 3
Acc. No.
4041

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

11—5613

State: Rhode Island.

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4041

LOCALITY:

Block Island Sound

Appr. to Narragansett

Bay.

1918

CHIEF OF PARTY:

John A. Daniels.

4041

Form 537
11—5812

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

REG. NO. 4041 W.D.

HYDROGRAPHIC TITLE SHEET

Duplicate Made in office

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. .....

REGISTER NO. 4041 W.D.

State Rhode Island

General locality Block Island Sound

Locality Vicinity of Block Island

Scale 1:20,000 Date of survey May 28 – July 5, 1928

Vessel Wire Drag Party

Chief of Party F.B.T. Siems

Surveyed by "

Protracted by W.H. Winans

Soundings penciled by

Soundings in ~~fathoms~~ feet

Plane of reference M.L.W.

Subdivision of wire dragged areas by W.H.W.

Inked by W.H.W.

Verified by

Instructions dated ....., 192

Remarks:

GPO

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

E. Lester Jones, Superintendent.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 1 (Field)

4041

John A. Daniels, Jr. H. & G. E.
Chief of Party

1918

Descriptive Report
to
Accompany Hydrographic Sheet No. 4041.

Wire Drag Party No. 1, 1918.

Limits. The area swept by Wire Drag Party No. 1 in 1918 off the west coast of Block Island extends westward from the 10 foot curve between Sandy Point and South West Point to a junction with the wire drag work previously completed south of Grace Point and about 2-1/2 miles offshore north of Grace Point. Later in the season wire drag party No. 5 executed wire drag surveys, joining the work of this party. Position numbers, work of Party No.1 are shown in the color of effective depths color scheme of near buoy. Those of party No. 2 are shown in red throughout.

Instructions from Superintendent of April 30, 1918, supplemented by those of June 1, 1918 and June 7, 1918.

Tidal Observations for the reduction of soundings and drag depths were made at entrance to Great Salt Pond. (Refer to levels made by F.B.Siems and later by J.A.Daniels for determination of reducer for staff.)

Control. The greater number of signals were located by triangulation of previous years and intermediate objects located by sextant cuts from boat positions or from the triangulation stations, these angles are recorded at the end of wire drag records.

Methods. Ranges were established for the inshore dragging to guide launches along certain depth durves. Otherwise, generally the methods practised by wire drag parties were followed, (See p.48 Vol. 2, see p. 58, Vol. 3.) Soundings recorded in wire drag records are underscored in red ink.

Color Scheme for showing effective drag depths is shown on the sheet. It will be noted that depths over 40 feet, dragged by party No. 1 are shown in red only, with additional depth given to be added to the initial 40 feet for obtaining the total effective depth.

Plotting was done by Mr. Wilbur Winans, Draftsman, who had been given some experience in the methods of this work at the Washington Office before taking up the work in the field. It is of a very complicated nature and in order to avoid confusion only effective depths are shown together with the dotted outline of the rest of drag strips.

Results of the surveys. Numerous boulders were found within 1/2 mile from the west shore of Block Island. Their description and location are recorded in the wire drag records. On the sheet the position numbers refer to position of drag strip opposite which they are recorded in the records. A tracing showing the depth and location of all dangers was forwarded to the office for

use of the Navy Department (see instructions) These dangers were plotted on Chart 356 by the office and is filed under blue prints No. 16842.

Respectfully submitted,
F B Siems
Chief wire drag party No. 1.

Washington, D.C.,
March 10, 1919.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
Form 583

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. 4041 Field No. .....

Wire drag survey of Navy Trial Course — Black Island Sound

Scale 1:20000 *Date of Survey* May — June, 1918

Surveyed by Wire Drag Party No. 4 — F. B. T. Siems

Day	DATE	Signaled angles compared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Compared with chart
A	May 28th	com	F.E.O	GRK	com	PHE	com	LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	—	—	—	
B	29th	com	F.E.O	GRK	com	PHE	com	LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	—	—	—	
C	31st	com	F.E.O	GRK	com	PHE	com	LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	WHW	com	WHW	
D	June 3rd	com	F.E.O	com	com	PHE	com	LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	WHW	com	WHW	
E	4th	com	F.E.O	com	com	PHE	com	LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	WHW	com	WHW	
F	5th	com	F.E.O	com	com	PHE	com	LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	WHW	com	WHW	
G	6th	com	F.E.O	com	com	PHE		LOS	com	LOS	P.H.E	com	com	LOS	WHW	LOS	WHW	WHW	GJP	WHW	com	WHW	
H	8th	com	F.E.O	com	com	PHE		LOS	com	LOS	com	LOS	com	LOS	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
J	10th	com	F.E.O	com	com	PHE		LOS	com	LOS	com	LOS	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
K	11th	com	F.E.O	com	com	PHE		LOS	com	LOS	com	LOS	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
L	13th	com	F.E.O	com	com	PHE		LOS	com	LOS	com	LOS	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
M	15th	com	F.E.O	com	com	PHE	LOS		LOS	com	P.H.E	LOS	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
N	17th	com	F.E.O com	com	com	PHE	LOS		LOS	com	P.H.E	LOS	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
P	18th	com	F.E.O com	com	com	PHE	LOS	LOS	com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
Q	19th	com	F.E.O	com	com	PHE	LOS		com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	GJP	WHW	
R	20th	com	F.E.O	com	com	PHE	LOS		com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	GJP	WHW	WHW	
S	21st	com	F.E.O	com	com	PHE	LOS		com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
T	24th	com	com	LOS	com	PHE	LOS		com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	LOS	WHW	
U	25th	com	F.E.O	com	com	PHE	LOS		com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	GJP	WHW	
V	26th	com	com	LOS	com	PHE	LOS		com	LOS	P.H.E	com	LOS	com	WHW	LOS	WHW	WHW	GJP	WHW	com	WHW	
W	July 1st	com	com	PHE	LOS	com	LOS		LOS	com	PHE	LOS	LOS	com	WHW	LOS	GJP	GJP	WHW	WHW	LOS	WHW	
	5th	com	com	PHE	LOS	com	LOS		LOS	com	PHE	LOS	LOS	com	WHW	LOS	GJP	GJP	WHW	WHW	LOS	WHW	

This Progress Chart, checked to show the condition of the office work, should be forwarded to the office with the records.

11—6061

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET NO. 1 (Field)
4041

John A. Daniels, Jr. H.&G.E.
Chief of Party

1918

LIMITS, SCALE USED, PURPOSE, ETC.

Sheet 1 (field) includes the area of wire drag work done in the vicinity of Block Island, and takes in the eastern part of Block Island Sound, and the western part of the Approaches to Narragansett Bay. Work was done to the eastward and westward for a distance of about 3 miles, and to the northward about 4 miles. This sheet was first used by Wire Drag Party No. 1 for the in-shore drag work West of Block Island.

The scale of this sheet is 1:20,000 and the boat sheet used is of the same scale.

The purpose of this work was to verify the depth of water as shown by the soundings on the chart. A maximum effective depth of 100 feet was used. In depths of less than 100 feet and more than 10 fathoms the drag was carried to within 10 to 20 feet of the bottom. Where the depths were less than 10 fathoms the general effective depth was 50 feet, and where this depth came in the vicinity of shoals the drag was carried to within 2 to 4 feet of the bottom. The least depth on all shoals was determined.

DANGERS.

Only one danger was found on t his work. It is a boulder shoal with a least depth of 21 feet, in a charted depth of 5 fathoms. This spot was covered by a 15 foot drag.

SHOALS.

Two unimportant shoals were found north-westward of Sandy Point bell buoy, about one-half mile apart. They are both about 1 fathom less than the charted depth.

To the eastward of Block Island several shoals were discovered. One, with a depth of 48 feet, about 1 mile from shore, south-south-~~west~~ward of signal CHY. This depth is about 1 fathom less than charted. The other, with a depth of 38 feet, which is about 3 feet less than charted, is about one-half mile from shore, ~~west~~ward of Signal BEAR.

SURVEY METHODS, CONTROL, PARTY, ETC.

Work was done with both long and short drags, the longest used being 9,000 feet with control from both launches. The shortest drag was 2,400 feet.

Control was furnished by old triangulation stations located in previous years. The signal CHY was located by sextant-triangulation and was found to be very useful. Several hydrographic signals were cut in on Clay Head for in-shore work, the height of this cliff making it impossible to see signals farther inland.

copy.

The party was very nearly an average size wire drag party, consisting of a Chief, an executive officer, 2 aids, 1 deck officer, 2 apprentice draftsman, 1 dragmaster, and 10 hands.

CURRENTS.

In the vicinity of the Sandy Point bell buoy currents were encountered which made it very difficult to run straight drag lines. These currents appear to vary with the wind , and at certain times strong tide rips were experienced. It was impossible t o drag other than with the currents anywhere in this locality. Cross currents and counter currents also had to be taken into consideration, with the result that slow progress was made.

Respectfully submitted,

John A. Daniels

Chief of Party

Statistics of Wire Drag Sheet No. 4041
Wire Drag Party No. 1, 1918.

Day	Date 1918.	Length of Drag	Linear miles	Positions	Retained soundings
A	May 28	3000	2.5	15	
B	May 29	4000	5.5	41	
C	May 31	4000	2.0	18	
D	June 3	1000	1.5	20	4
E	June 4	1000	6.3	78	1
F	June 5	1000	3.0	42	3
G	June 6	1000	0.5	12	9
H	June 8	1000	0.3	9	2
J	" 10	1000	0.7	20	2
K	" 11	1000	2.0	50	3
L	" 13	1000	2.0	31	3
M	" 15	1000	2.0	30	1
N	" 17	1600	3.0	31	3
P	" 18	1600	3.2	58	1
Q	" 19	1600	4.5	52	2
R	" 20	1600	2.0	34	1
S	" 21	4500	4.0	38	
T	" 24	4000	1.5	21	
U	" 25	1600	4.8	62	
V	" 26	4000	1.5	38	
W	July 1	4000	.2	10	
X	" 5	4000S 1500	4.5	50	
			57.5	760	35

Area dragged 14 square miles.

4041

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: Rhode Island

11—5613

DESCRIPTIVE REPORT.

Hyd. Sheet No. 4041

LOCALITY:

Block Island Sound

Vicinity of Block Island

1918 and 1919

CHIEF OF PARTY:

F. B. T. Siems

4041

4041

4041

Form 537
11—5812

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 4041

State . Rhode Island . . . . . .

General locality . . ~~New England Coast~~. Block Island Sound

Locality . . . ~~Block Island Sound~~ Vicinity of Block Island

Chief of party . . F.R.T. Siems, H.&G.Engr. . . . . .

Surveyed by . . Wire Drag Party No.1 . . . . . .

Date of survey . . Season of 1919 . . July 26 to Nov. 1 . . .

Scale . . . 1 : 20'000 . . . . . .

Soundings in . . . Feet . . . . . .

Plane of reference . . . Mean Low Water . . . . . .

Protracted by . F.L.G. . . Soundings in pencil by .N.D. . .

Inked by . . .N.D. . . . . Verified by . F.M.A. . . . . .

Records accompanying sheet (check those forwarded):

Des. report, 2..... Tide books, ... Marigrams, ...1.... Boat sheets,

....1... Sounding books, ...2... Wire-drag books, ... Photographs.

Data from other sources affecting sheet . . . . . .

Work of Wire Drag Parties Nos. 1 & 5, season of 1918, is also plotted on this sheet.

Remarks:

This sheet is additional work

DEPARTMENT OF COMMERCE

U. S. Coast & Geodetic Survey

HYDROGRAPHIC TITLE SHEET

4041

The finished Hydrographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast & Geodetic Survey

Register No. 1 (Field)
4041

State Rhode Island

General Locality Block Island

Locality Block Island Sound & Approaches toNarragansett Bay

Chief Of Party Jr. H. & G. E., J. A. Daniels

Surveyed by Jr. H. & G. E., J. A. Daniels

Date of Survey July 16 - October 2 1918

Scale 1: 20,000

Soundings in feet

Plane of reference Mean low water

Protracted by R. L. H. Soundings in pencil R. L. H.

Inked by R. L. H. Verified by

Records accompanying sheet (check those forwarded):

Des. ✓ report, ✓ Tide books, 2 Marigrams, Boat sheets,

✓ Sounding books, ✓ Wire-drag books, 4 Photographs.

Data from other sources affecting sheet Work of F.B.T.Siems, 1918, also plotted on on this sheet.

Remarks:

See other title sheet.

U. S. COAST AND GEODETIC SURVEY
Form 583

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. **4041** Field No. 1 [redacted]

Wire drag survey of Block Island Sound

Scale 1:20000 *Date of Survey* Season 1918 July-16 Oct-2

Surveyed by John A. Daniels, Jr. H. & G. E.

Day	DATE	Signaled angles compared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Compared with chart
A	7/16	G.R.K.	J.A.D.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	L.A.E.	A.P.R.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
B	7/17	A.P.R.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	L.A.E.	A.P.R.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
C	7/22	C.H.O.	J.A.D.	C.H.O.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	L.A.E.	A.P.R.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
D	7/23	C.H.O.	J.A.D.	C.H.O.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	L.A.E.	A.P.R.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
E	8/1	K C.H.O.		K G.E.R.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	L.A.E.	A.P.R.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
F	8/2	Entire day Rejected.															R.L.H.						
G	8/8	K G.E.R.		K N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
H	8/14	N.C.	N.C.	N.C.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
J	8/15	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
K	8/16	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
L	8/20	Reject			A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.	Rejected.					
M	8/21	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
N	8/23	R.L.H.	N.C.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
P	8/30	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
Q	9/3	G.R.K. R.L.H.	R.L.H.	A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
R	9/4	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
S	9/5	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
T	9/7	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
U	9/10	K G.R.K.		K A.P.R.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	L.A.E.	A.P.R.	N.C.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
V	9/12	K G.R.K.		K A.P.R.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.	A.P.R.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
W	9/16	K G.R.K.		K A.P.R.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
X	9/17	K G.R.K.		K A.P.R.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
Y	9/19	G.R.K. R.L.H.	N.C.	R.L.H.	L.A.E.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.	N.C.	A.P.R.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
Z	9/23	G.R.K. R.L.H.	J.A.D. N.C.	G.R.K. R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
A'	9/24	G.R.K. R.L.H.	N.C.	G.R.K. R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
B'	9/27	G.R.K. R.L.H.	N.C.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.	L.A.E.	R.L.H.			R.L.H.			R.L.H.		R.L.H.	J.A.D.
C'	10/2	K G.R.K.		K A.P.R.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.	A.P.R.	L.A.E.			R.L.H.			R.L.H.		R.L.H.	J.A.D.

This Progress Chart, checked to show the condition of the office work, should be forwarded to the office with the records.

11—6061

June 18, 1918

Sextant Triangulation — Bell 26 44 30

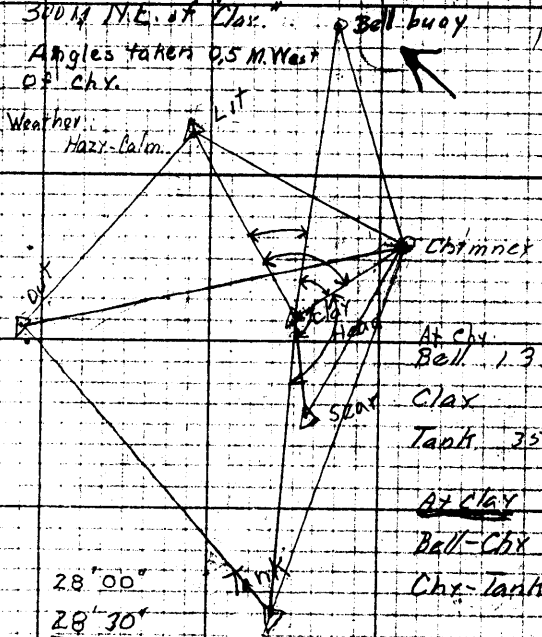
D. Cherniack - Aid, Observer Lit

Location of S.W. chy. on House about 300 M. N.E. of "Clay." Out 79 36 15

106 30 45

Angles taken 0.5 M. West of Chy.

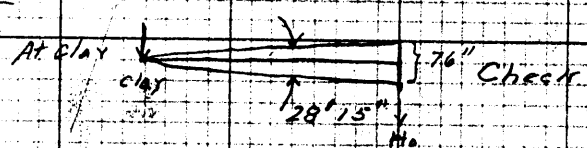
Weather: Hazy-Calm.



At Chy.
Bell 133 09 10"
Clay
Tank 35 43 00

At Clay
Bell-Chy 45° 29' 20"
Chy-Tank 142° 55' 15"

28' 00"
28' 30"
28' 15"
76"

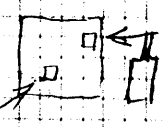


At Chy.
Bell 26 44 30"
Lit
Clay 106° 24' 40"

Bell 133 09 10"
clay
Sear 20 21 15

At clay
Lit-Chy 68° 22' 00"
Lit-Bell 22° 52' 45"
Bell-Chy 45° 29' 20"

At Clay
Bell-Chy 45° 29' 20"
Chy-Sear 155° 48' 15"
Tank-Sear 12° 54' 00

22° 52' 30"	Lit - Bell	13° 07'	Chr - Pole
22° 53'		13° 06'	
		13° 06' 30"	
68° 22'	Lit - Chr.		
68° 22'		142° 41' 30"	Pole - Sear
45° 28' 30"	Bell - Chr.	142° 42' 00	
45° 30' 30"		142° 41' 45"	
45° 29' 00			
88'		155° 48' 15"	
29 20"			
		142° 55' 30"	Chr - Tan
		142° 55' 00	
		142° 55' 15	
		12° 53' 30	Tank - Sear
		12° 54' 30	
		12° 54'	
			
26 45	Bell - Lit		
26° 47'			
26 44'			
26 44 30			
106° 25' 30"	Lt - Clay	79 36 30	Lit - out
106° 24' 00		79 36 00	
106 24 30			
74		79 36 15	
24 40			

Aug. 8, 1919

Location boundary markers for closed lobster area.

Black	Cam 38-35	
	White Hut 39-35	(Limit of vision $1\frac{1}{2}$ miles
Red	Paine 29-10	
	Cam Hut 26-08	
Red	S.E.L.H 43-18	
	Barlow's Cam 26-12	
Black	S.E.L.H 111-00	
	Barlows Cam 21-04	

20 21 30 20 21 00 20 21 15	Clar Sear	35 43 30 35 42 30 35 43 00	Clar - Tank
15° 20 30 15° 20 30	Sear - Tank	26 49 30 26 49 30 ✓ 79 36 15 106 25 45	Out - Clar
15° 20 15 20 21 15 35 [illegible] 30			

35 43
26 49
62 32

39.37) 38 00.00 (0.965
35 43 3
25 670
23 622
20 480
19 805

log cot 14' 7.5" = 12.386282-10
log 0.965 m = 9.984527-10
log d. = 2.370809
d = 234.86

35-43-00
26 49 30
62 32 30

94
188

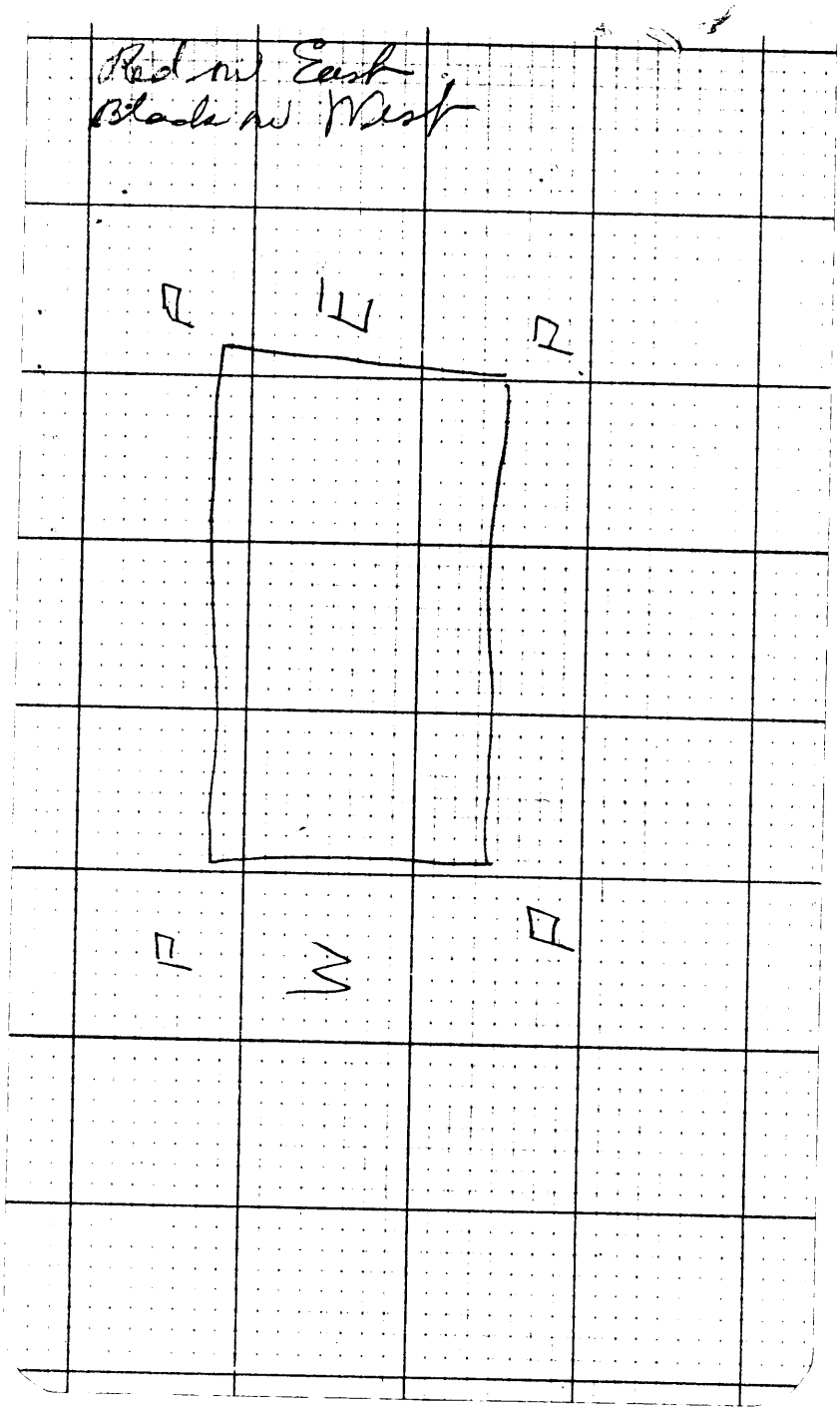
79 36 15

26 44 30
79 36 15
26 49 30
35 43 00

26 49 30
35 43 30
out-tank 62-33

733 09 10
45 29 20
175 38 30
102 1 30

20 21 - 15
26 49 - 30
47 10


Red is East
Black is West
E
W

STATISTICS

Hydrographic Sheet No. 1 (Field)

4041

Day	No. Miles	Soundings	Positions	Angles
A	2.0	0	14	82
B	6.6	2	42	252
C	2.2	1	15	63
D	2.2	0	20	145
E	7.1	0	64	376
G	6.2	0	55	327
H	4.7	7	39	236
J	6.7	4	28	186
K	5.1	1	33	150
M	5.5	03	24	175
N	1.7	1	13	76
P	5.5	0	30	214
Q	7.1	0	47	321
R	4.3	1	30	229
S	4.5	0	23	223
T	3.4	0	16	120
U	2.0	4	16	113
V	5.5	8	31	217
W	2.2	2	13	140
X	1.0	1	8	51
Y	3.4	5	24	152
Z	6.2	4	62	384
A'	2.3	2	22	139
B'	2.5	1	13	90
C'	2.5	0	10	73

DEPARTMENT of COMMERCE
U. S. Coast and Geodetic Survey

Wire Drag Party No. 1
Box 98, Stonington, Conn.
October 3, 1916.

OCT 8 1918
HYDROGRAPHY, ETC.

To the Superintendent,
Coast and Geodetic Survey,
Washington, D. C.

Sir:

I have the honor to forward herewith tracing for use of the Navy Department, showing sounding taken, effective drags depths of wire drag work, obstruction found by the wire drag, current information, and determination of azimuth and location of ranges by triangulation for the submarine standardization course at Block Island, R.I.

I understand that the ranges were placed by Mr. K.T. Adams of this service in 1917, but am unable to state what means were used in locating them.

Respectfully,

H.B. Glenn

Hydrographic and Geodetic Engineer.

Descriptive Report
to
Accompany Hydrographic Sheet No. 4041

Wire Drag Party No. 1, 1919.

Limits. The wire Drag work accomplished on this sheet during 1919 embraces the inshore area south of Block Island. This area lying between the limits of work done in previous years, was completed with the exception of an area of 1 sq. mi., two miles offshore along the eastern limit.

Instructions from Superintendent dated June 18, 1919.

Tidal Observations for the reduction of soundings and drag depths were made at New Harbor, Block Island. The staff usedcin 1919 was connected by levels to B. M. # 6, which was used for determining plane of M.L. W. which corresponded to a reading of 2.7 ft on the 1919 staff. By comparing several simultaneous values of low waters of 1919 staff at Block Island, and Pt Judith Automatic Tide gauge, the M,L.W. determined at Pt Judith corresponds roughly to a reading of 2.9 on the Block Island Staff.

Control Nearly all of the work was controlled by three triangulation stations. At the northeast end of the work it was necessary to use a buoyed flag in order to obtain positions close inshore.

Methods The general methods of one boat control in wire drag work was used. The new launches built for wire drag work were used in this work.

RESULTS of survey Only one important danger was found during the season consisting of a 34 ft. boulder in a general depth of 66 ft, located approximately in Lat 41-07.5, long. 75-07.1. Several other soundings of less depth than charted were discovered.

Respectfully submitted

Washington, Jan. 10, 1920

F B Williams

Chief, Wire Drag Party No, 1

Sheet was not examined or approved by Chief of Party for the reason that he was transferred to another party before plotting was commenced

F.B.W.

TABLE OF STATISTICS- WIRE DRAG SHEET #4041 Year 1919

WIRE DRAG PARTY #1

DAY	DATE	LENGTH OF DRAG	MILES STA.	POSITIONS	RETAINED SOUNDINGS
	1919 July 26	4400	0	0	0
	28	4800	0	0	0
	Aug. 16	3200	0.1	2.0	0
	19	3200	0.1	12	1
	20	2400	4.5	67	0
	23	3600	3.0	24	0
	27	4500	2.5	16	0
	Sept. 5	4000	6.0	64	0
	6	3200	2.0	16	0
	8	2400	2.0	34	1
	22	2000	1.0	18	1
	27	5500	2.2	13	0
	Oct. 15	2000 4400	4.0	52	1
	Oct. 27	3200	4.5	49	2
	Nov. 1	4500	1.0	9	0
		Totals	32.9	393	6

Descriptive Report.

Hydrographic Sheet No. 4041.

Wire Drag Party No. 1.

Locality of Survey. The work completed on this sheet during the season of 1919, was to the S'd. of Block Island, joining that done by parties No. 1 and 2, in 1918.

Instructions from the Superintendent were dated June 18, 1918.

Tidal observations, for the computation of effective drag depths and reductions for soundings, were made from staff readings obtained at Block Island.

Control. All of the objects (except signal "Bu") that were employed in this were located by triangulation.

Methods. Short drag, one boat control, was used in this work.

Results of Survey. Most of this area was found to conform closely to the information as shown on existing charts of that locality. A few rock ledges, upon which soundings were obtained, ranging from 39 to 48 feet, were found about two miles off of the Island and the positions of these are indicated on the smooth sheet.

Respectfully submitted,

Francis L. Fallon

Jr. H & G. Engineer.

DAY	DATE 1919	LENGTH OF DRAG	MILES STA.	POSITIONS	RETAINED SOUNDINGS	
A	July, 26	4400 ft.	0	0	0	foggy
B	" 28	4800 "	0	0	0	"
C	Aug. 16	3200 "	0.1	2	0	
D	" 19	3200 "	0.1	2	1	
E	" 20	2400 "	4.5	60	0	
F	" 23	3600 "	3.0	20	0	
G	" 27	4500 "	2.5	16	0	
H	Sept. 5	4000 "	6.0	57	0	
J	" 6	3200 "	2.2	17	0	
K	" 8	2400 "	2.0	22	0	
L	" 22	2000 "	1.0	18	1	
M'	" 27	5500 "	2.2	13	0	
N	Oct. 15	2000 "	4.0	47	1	
O	" 27	3200 "	4.5	49	2	
P	Nov. 1	4500 "	1.0	10	2	
		Totals	33.1	333	7	

ADDRESS THE SUPERINTENDENT
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO. 41-EMK

FIELD RECORDS (C)

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 23, 1920.

SECTION OF FIELD RECORDS
MAR 24 1920
RECEIVED

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions have been approved in
3 volumes of Wire Drag and Sounding records for

HYDROGRAPHIC SHEET 4041 Add.

South of Block Island, R.I.
F.B.T. Siems, in 1919

Plane of reference is
Mean low water, reading

2.7 ft. on tide staff at New Harbor
(Great Salt Pond), Block Island, R.I.

Condition of records; satisfactory.

G T Rude

Chief, Section of Tides
and Currents.

W G Parker

Chief, Division of Hydrography

Daniels, 1918.

Notes H4041 (W.D.)

~~[illegible]~~

M day Where stops by guide launch are noted, it is assumed tension is kept on drag by End Launch.

C Changes of one foot due to reducers is disregarded

K day " " " " "

Gat 2 no sndg. plot 78'. Begin line at pos. 6 since note at 10:50 says "still G at 2" though there is no previous note that drag is aground. } Plot 78'.

Apparently aground at 2:56 No sounding nor buoy number given. Plot 97'

P-day Pos 6, guide launch stopped. Assumed end launch maintained tension on drag.

Changes of 1 ft. due to reducers is disregarded.

S day Pos. 16 Note of G but no location nor sndg. Add'l work requ'd.
Changes of 1' due to reducers is disregarded.

T day Pos. 16 Weights No. 3 well polished on taking up drag: Comparison with H 3562 indicates drag covered an area considerably shoaler than eff. depth.

G day Pos 29 Drag test 96' for 100' upright at /
~~[illegible] pos 23 not plotted as it is not additional information~~
Entire drag strip, pos 1 to 55, drag depth, buoy N-1 reduced 4' on account of 96' drag test at buoy 1 which was hooked to 100'

D day Pos. 20 Drag aground (on ~~charted shoal~~) no location nor sndg on this day Evidently on known shoal.

C " Line ended on pos. 14. Drag G. but ~~note~~ says "small buoy came off drag causing drag to sink") and sndg record says 2 buoys towed under. Sndg gives 138 ft. ~~Not [illegible]~~ Probably no shoal

E " G. pos 16 no buoy no. or cut given. Sndg at 4.20 fms. which is regular depth in this locality. ~~Sndg not [illegible]~~ Add'l work requ'd. Plot 83'

B " G pos 11 no sndg nor location. Note says "obstruction later found to be submerged wreck", but no mention of where this was discovered. Add'l work requ'd.
G pos 37 eff. depth 62' no position nor sndg given Add'l work required

(Cont'd)

Daniels 1918 Notes W. D. H4041

R day pos. 29 Records says "possibly aground. Sndg 76' eff. depth 64' Cleared by 73'

N day pos 30 Aground Sndg 73' Another sndg (12.0 fm) 70 ft. reduced nearby. This area had been cleared by 73' Drag. (Show 71' and split) Plot 70' and show split

W day pos. 13 note of 8' swells ~~Sndgs at pos 9 10 not inked on smooth sheet. Taken from H while underway dragging.~~

~~V day [illegible]~~

U day pos 12 G at F ~~plot~~ eff. depth of 44' Plot 44'

pos 15 " " small buoy. eff. depth 44' sndg 53' this plots close to 44' of pos 12 See 44' at 12U

H day pos. 37 G at F eff. depth 60' this is approx. the general depth in this locality no sndg obtained. Records says "charted shoal." Plot 60'

pos. 39 note "apparently G at 3". no sndg at this point. eff. depth 33-38 feet buoy Plot 38' at 3

11L Drag aground eff. depth about 70' This day has been rejected and approx locality of Ground is where additional work is required Sndg 73' obtained at 5L. ~~See~~ Probably same place as 70' of pos 30 N.

5Y drag aground eff. depth 27' sndg 32' therefore plot 27' least depth probably not obtained Plot 27'

24Y drag aground eff depth 28' sndg 42' therefore plot 28' Plot 28'

26Y drag aground no buoy no. or ~~position~~ location given no sndg obtained, pos. 26Y is rejected approx location shown on paper tracing for A+D sheet. (Also aground in approx. this vicinity 62Z) {Indefinite Information

62Z drag aground, sndg 45' eff. depth 26' Plot 26'

42Z sndg while underway 5½ feet. N.P. location uncertain Too indefinite

57Z G at #1 Sndg 24' obtained near #2 which is OK #1 looked at 16' Perhaps #2 + not #1 was aground. Stet 24' at 2

3A' G "possibly aground, slipped off" See 4A'

4A' G at 1 to 2 Sndg. 38' eff. depth 22' Plot 22'

6A' G at 10:47 o'clock no sndg. position rejected May be ~~same~~ aground on 20 ft. sndg of 2A'

Daniels 1918 Notes W.D. 4041

6B" G at 1 sndg. 37' eff. depth 15' "drag probably poggled". Cleared with 27' & 15'

Siems 1919

4N G eff. depth 56' Sndg. 66' Plot 56' Plot 56'

16G. G at for 16. no sndg obtained Nothing plotted. Add'l work req'd.

20F G at 3 & F no sndgs obtained eff depth {at 3 = 40'-2 for lift = 38, at F = 55-2 " " = 53} The G at 3 may be same place as 39' sndg of 1K } Use 39' at 1K for buoy 3, Plot 53' at F buoy

10L G eff depth 34' plot 34' Plot 34'

12D G eff depth 41' (34' at 10L) Not plotted see 10L

21E G no sndg eff depth 15' Plot 15'

45E G " " " " 19' " 19'

4K G at 2-3 drag pulled under sndg 51' buoy 10' under water Evidently not a shoal. Plot 51'

19K 46' drag passes over 45' sndg 1K This is close to trace of F buoy. May be accounted for by either small change in position or tide reducer or lift.

17J G at 2 no sndg eff. depth 48+2=50' Plot 48'

SIEMS 1918

32X Drag may be sliding over shoal (charted?)

1W G no sndg Joins H 3380 eff. depth 9 ✓

5W G " " " " "

General Notes H4041 W.D.

DANIELS 1918

Changes of 1' in eff. depth due to changes in tide reducers are neglected.

Work based on ⊙ Bell (a buoy) may be in error due to watch of buoy.

Bights at beginnings of lines shown straight except where drag had been underway a sufficient time for bight to assume natural curve.

Siems 1919

There seems to be a shift of work based on Cam, which has two points. In general the shift was not enough to warrant changing the drag strips.

On 46-60 E the drag strip is in some cases the full length of the drag and in a few cases greater than the length of drag. This may be due to incorrect towline base or perhaps an extra section was inadvertently put in the drag. See p. 30 V. 1 where a length of 3200 ft. is crossed out & replaced by 2400. Overlap is ample.

"O" day Distances to N buoy plotted with about 90 meter towline. Should use 60 m. towline As this is on side of safety no change was made.

Siems 1918

Some of the drag strips had not been inked and this was done in the office using the same (the incorrect) color scheme as started in the field.

In depths over 59' instead of changing color base, the red was retained as base with the additional depth ~~to the~~ plotted. i.e. 80' plotted with red base and 40 shown in the drag strip.

PROGRESS OF VERIFYING W.D. 4041

Day	Sierra 1916	Sierra 1918	Sierra 1919
A	✓		X
B	✓		X
C	✓	✓	X
D	✓		✓
E	✓		✓
F	R		✓
G	✓		✓
H	✓		✓
I	X		X
J	✓		✓
K	✓		✓
L	✓		✓
M	✓		On 4042
N	✓		✓
O	X		✓
P	✓		✓
Q	✓		
R	✓		
S	✓		
T	✓		
U	✓		
V	✓		
W	✓	✓	
X	✓	✓	
Y	✓		
Z	✓		
A′	✓		
B′	✓		
C′	✓		

ADDRESS THE SUPERINTENDENT
U. S. COAST AND GEODETIC SURVEY

AND REFER TO NO.

FIELD RECORDS (C)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON May 5, 1919.

Division of Hydrography and Topography:

Division of Charts:

Tidal reductions have been approved in
10 volumes of Wire Drag and Sounding records for

HYDROGRAPHIC SHEET 4041

Block Island sound, Rhode Island
J. A. Daniels and F. B. T. Siems in 1918,

Plane of reference is
Mean low water, reading

1.6 on staff at Breakwater, Great Salt Pond,
Block Island R. I.

SECTION OF FIELD RECORDS
MAY 7 1919
RECEIVED

R. Rice
Chief, Section of Tides
and Currents.

POST-OFFICE ADDRESS: P. O. Box 516 Key West, Florida.

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

JAN 23 12 21 PM 20

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

STEAMER HYDROGRAPHER.

Refer to
No. 6783.

Key West, Florida.
January 20, 1920.

JAN 23 10 12 AM 20

OFFICE
LIBRARY
MAGNETIC
Charts

To: Chief Section of Records.

From: F. B. T. Siems, H. & G. Eng'r.

Subject: Position of bell buoy Hydrographic sheet # 4041.

Last spring while at the office my attention was called to a discrepancy existing between the positions of bell buoy north of Block Island, R. I. as determined by myself in 1918 and by the party of Mr. Daniels later on Hydrographic sheet # 4041.

I am forwarding herewith some data determined by Mr. Daniels party locating the bell buoy and it will be found that this position agrees very closely with the one I determined. This data was found among the stationery of Wire Drag Party # 5 transferred to my party last season.

Kindly file this letter and enclosed data with description Report 4041.

F. B. T. Siems

F. B. T. SIEMS
H. & G. ENG'R
CMDG. STR. HYDROGRAPHER.

Applied to new chart 269 4 A.M. 1950