

5515

Form 504  
Ed. June, 1923

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director



State: New York

DESCRIPTIVE REPORT

Hydrographic } Sheet No. 2 5515

LOCALITY

Block Island Sound L.I.

Rocky Pt. to Little Gull Island

1934

CHIEF OF PARTY

Wm. D. Patterson, Lieut.

5515

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

COAST AND GEODETIC SURVEY  
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Acc. No. \_\_\_\_\_

REG. NO. 5515

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. 2

REGISTER NO. **5515**

State New York

General locality Block Island Sound L. I. Sound

Locality Rocky Pt. to Little Gull Island

Scale 1:20,000 Date of survey May - July, 1934

Vessel Field Party No. 5

Chief of Party Lieut. Wm. D. Patterson

Surveyed by George F. Jordan, Surveyor

Protracted by C. R. Smith & J. C. McIlwaine

Soundings penciled by C. R. Smith

Soundings in ~~fathoms~~ feet

Plane of reference MLW

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by W. L. Muller

Verified by W. L. Muller

Instructions dated May 14, 1934

Remarks: \_\_\_\_\_

*KWW 11/1/91*

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SHEET No. 2 (Field Number)

EASTERN SIDE OF GARDINERS ISLAND, LONG ISLAND, NEW YORK.

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DATE OF INSTRUCTIONS

Director's Instructions dated May 14, 1934. ✓

SURVEY METHODS

The standard three point fix, obtained by simultaneous sextant angles on board survey boat, was used for obtaining positions at time of soundings. Soundings and bottom samples were obtained by use of hand leadline of mahogany wire center tiller rope marked in fathoms and feet with 8 & 12 pound cupped leads. ✓

DISCREPANCIES

Noted at junction of green and blue soundings, a difference of one fathom. Believe from course of blue line 21F to 40F that extreme current made it difficult to hold on course and also obtain accurate soundings at that depth. Boat could not be slowed down to 4 miles. Accordingly, recommend rejection of this line beginning at Latitude  $41^{\circ} 06'$  (1423 meters), Longitude  $72^{\circ} 03'$  (156 meters), blue day positions 21F to 40F. ✓

*Good agreement with cross lines up to pos 27F. Reject soundings 27F to 40F. R.H.*

Latitude  $41^{\circ} 09'$  (1028 meters), Longitude  $72^{\circ} 08'$  (327 meters), a 70 foot sounding which was not checked at later date and is believed to be erroneous. It was the first sounding of the day and although the recorder obtained a check on the following sounding, believe there was an error in reading the leadline, 12 fathoms (2 strips) and 16 fathoms (1 strip). It is remembered that on one occasion, one strip was lost on the 12 fathom mark, this may have been at this time. Recommend rejection of this sounding. ✓

*Sounding rejected R.H.*

DANGERS

Latitude  $41^{\circ} 07'$  (480 meters), Longitude  $72^{\circ} 06'$  (1120 meters), a submerged rock 10 foot diameter with least depth of 2 feet reported by Coast Pilot and not marked. ✓

Latitude  $41^{\circ} 07'$  (517 meters), Longitude  $72^{\circ} 06'$  (1175 meters), a submerged rock 6 foot diameter with least depth of 5 feet. ✓

DANGERS (continued)

Latitude 41° 06' (1200 meters), Longitude 72° 06' (380 meters), a submerged rock 10 foot diameter with least depth of 3 feet, charted 5 feet spot.

Latitude 41° 06' (1167 meters), Longitude 72° 06' (380 meters), a submerged rock 14 feet diameter with least depth of 2 feet.

Latitude 41° 06' (1010 meters), Longitude 72° 06' (353 meters), a rock which bares 1.3 feet at MLW.

Latitude 41° 12' (656 meters), Longitude 72° 06' (837 meters), a submerged rock with least depth of  $\frac{1}{2}$  foot.  
*awash at MLW*

Latitude 41° 12' (571 meters), Longitude 72° 06' (899 meters), a submerged rock with least depth of 3 feet; also the southern limit of a large group of rocks (150 meters square) extending out to the lines of sounding in this area, rocks are submerged and awash at high water. This pass between Great and Little Gull Islands should be avoided because of the presence of numerous rocks which leave a narrow unmarked pass. Also to be noted here is the presence of numerous rocks about Little Gull Island. These rocks are close to shore, except on the east side of the island, where the rocks extend northeastward 300 meters. There is a strong current and rip tide extending northeastward from the island; a satisfactory sextant fix was not available, which made development of this area difficult. Apparently the narrow shoal towards the buoy has deepened; but rocks other than the group of three noted below may be present. It is suggested that any subsequent survey making junction with this sheet make a wire drag examination of this small shoal. Sextant fixes and equipment on hand was not sufficient for carrying out this work at this time.

Latitude 41° 12' (770 meters), Longitude 72° 06' (305 meters), a group of three submerged rocks with least depth of 1 foot.

Latitude 41° 04' (654 meters), Longitude 12° 04' (1003 meters), a submerged rock with least depth of 5 feet.

Latitude 41° 04' (20 meters), Longitude 72° 05' (70 meters), a rock which bares  $\frac{1}{2}$  feet.  
*awash at MLW*

Latitude 41° 03' (1822 meters), Longitude 72° 05' (237 meters), a rock which bares  $\frac{1}{2}$  feet.  
*awash at MLW*

Latitude 41° 03' (1510 meters), Longitude 72° 05' (208 meters), a submerged rock with least depth of 2 feet.

Latitude 41° 03' (1320 meters), Longitude 72° 05' (20 meters), a submerged rock with least depth of 1 foot.  
*awash at MLW*

Latitude 41° 02' (534 meters), Longitude 72° 00' (366 meters), a rock awash at low water.

*awash at HW, according to the sounding record pgs. 83 & 84. Many rocks submerged and awash at MLW of this position. Pff*

DANGERS (continued)

The shoal between the northwest point of Gardiners Island and the Old Ruins has been reported on in Descriptive Report of Hydrographic Sheet No. 1 (Field Number). *H. 5514*

From Hydrographic Signal "Gig" on the north shore of Gardiners Island eastward and on the east shore of the island numerous rocks were noted near the shore. The beach is sandy north-west from this point, but a boat should approach the island east of here with caution. Rocks found have been noted in the list of dangers, but the area was not wire dragged.

Notation may be incorporated here of the danger from artillery practice carried on during the latter part of the work on this sheet. Vessels started at Plum Island on a southeastern course, passing 1 mile from the Old Ruins, and towing a red target which was the object of practice by artillery guns on Fishers Island. The target vessels kept on southeasterly course to limit of this sheet. Also to be noted is the presence of submarines in this area; the survey boat nearly being rammed by a submarine emerging 300 feet off the port bow. The target vessels raise a red flag when the field is clear for firing.

Latitude  $41^{\circ} 07.30'$ , Longitude  $72^{\circ} 06.75'$ , a charted submerged rock with least depth of  $1\frac{1}{2}$  feet, verified and reported in dangers above.

Latitude  $41^{\circ} 10.53'$ , Longitude  $72^{\circ} 06.60'$ , charted 17 foot Constellation Rock not verified. Close examination of this area by sounding lines, drifting with leadline, revealed least depth of 26 feet. Subsequent wire dragging was thoroughly used, and no fouling of drag was found at 20 foot depth.

Latitude  $41^{\circ} 02.70'$ , Longitude  $72^{\circ} 05.70'$ , charted 5 foot spot found to be east end of shoal.

Latitude  $41^{\circ} 03.20'$ , Longitude  $72^{\circ} 05.50'$ , charted 5 foot spot is part of 5 foot contour now. Recommend removal from chart.

Latitude  $41^{\circ} 02.57'$ , Longitude  $72^{\circ} 05.40'$ , charted 6 foot spot not searched for. Bottom of hard sand and very uneven here. Recommend the 6 foot spot be retained.

Latitude  $41^{\circ} 02.55'$ , Longitude  $72^{\circ} 05.0'$ , charted 6 foot spot not searched for. Recommend the 6 foot spot be retained.

Respectfully submitted,

Approved:

*Wm. D. Patterson*  
Wm. D. Patterson, Lieut.,  
U. S. Coast & Geodetic Survey,  
Chief of Field Party No. 5.

*George F. Jordan*  
George F. Jordan, Surveyor,  
U. S. Coast & Geodetic Survey.

STATISTICS HYDROGRAPHIC SHEET NO. 2

DAY	COLOR	DATE	VOLUME	STATUTE MILES	SOUNDINGS	POSITIONS
A	Blue	June 9	1	23.4	426	84
B	"	" 11	1	25.5	812	128
C	"	" 12	1	6.2	192	29
D	"	" 13	1	19.5	299	67
E	"	" 14	2	31.2	685	149
F	"	" 15	2	22.7	233	92
G	"	" 18	2	25.0	248	81
H	"	" 20	2	30.7	481	88
J	"	" 21	3	16.4	253	50
K	"	" 22	3	28.7	408	93
L	"	" 25	3	31.8	452	98
M	"	" 26	3	25.5	262	75
N	"	" 27	3	22.7	230	68
P	"	" 28	4	23.7	324	88
A	Green	June 6	5	5.2	115	21
B	"	" 15	5	11.6	223	49
C	"	" 18	5	24.6	368	98
D	"	" 20	5	3.0	96	24
E	"	" 21	5	10.2	204	48
F	"	" 22	5	24.6	307	101
G	"	" 25	5	21.6	309	95
H	"	" 26	5	20.2	221	78
J	"	" 27	6	15.9	193	65
K	"	" 28	6	17.1	238	67
L	"	" 29	6	21.0	479	91
M	"	July 2	6	12.0	364	65
N	"	" 3	6	19.0	284	81
P	"	" 5	6 & 7	22.4	342	87
Q	"	" 6	7	6.6	143	35
R	"	" 7	7	12.1	177	50
S	"	" 9	7	11.0	250	61
T	"	" 10	7	13.9	212	61
U	"	" 11	7	14.4	216	69
V	"	" 12	7	11.3	298	83
W	"	" 13	7 & 8	16.1	244	68
X	"	" 16	8	15.4	413	74
Y	"	" 24	8	1.5	27	15
A	Red	June 22	9	26.7	412	79
B	"	" 28	9	19.5	322	70
C	"	July 2	9	6.5	317	36
D	"	" 5	9	17.5	239	76
E	"	" 6	9	3.1	96	21
F	"	" 13	9	8.7	356	58
-----			9	745.7	12770	3016

AREA 66.5 SQUARE STATUTE MILES

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. *5515*.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	<i>3016</i>
Number of positions checked	<i>101</i>
Number of positions revised	<i>2</i>
Number of soundings recorded	<i>17770</i>
Number of soundings revised	<i>12</i>
Number of signals erroneously plotted or transferred	<i>0</i>

Date: *November*

Cartographer: *William R. Muller*

Verification of plotting  
Verification & indexing of spots and signals) *W. R. M.*

Verification of indexing by *W. R. M.*

Revised by *R. J. Christman Jan-Feb 1935*

TIME: } *72 1/2 hrs.*

TIME: *45 1/4*

TO: Mr. Bacon  
 From L. S. S.

GEOGRAPHIC NAMES

Date: October 4, 1934

Survey No. H 5515

Chart No. 298 & 1211

Diagram No. 1211-2

*Names underlined in red approved Oct 6, 1934*

*N.B.*

\* Approved by the Division of Geographic Names, Department of Interior.

φ Not Approved by the Division of Geographic Names, Department of Interior.

R. Referred to the Division of Geographic Names, Department of Interior.

Status	Name on Survey	Name on Chart	New Names in local use	Names assigned by Field	Location
✓ <i>N.B.</i>	-----	<u>Little Gull I.</u>	-----	-----	41°12.5' 72°06.9'
✓ <i>N.B.</i>	<u>Constellation Rock</u>	Same	-----	-----	41°16.5' 72°06.6'
✓ <i>N.B.</i>	-----	<u>Great Gull I.</u>	-----	-----	41°12.2' 72°07.4'
<i>N.B.</i>	-----	<u>Bostwick Bay</u> <i>N.B. omit</i>	-----	-----	41°07.0' 72°08.0'
✓ <i>N.B.</i>	-----	<u>Eastern Plain Pt.</u>	-----	-----	41°05.8' 72°05.0'
✓ <i>N.B.</i>	<u>Gardiners Island</u>	<u>Gardiners Island</u>	-----	-----	41°05.8' 72°06.6'
✓ <i>N.B.</i>	<u>Tobaccolet Bay</u>	Same	-----	-----	41°05.1' 72°05.3'
✓ <i>N.B.</i>	-----	<u>Cartwright I.</u>	-----	-----	41°01.8' 72°05.7'
✓ <i>N.B.</i>	<u>Napeague Harbor</u>	Same	-----	-----	41°00.5' 72°03.0'
✓ <i>N.B.</i>	-----	<u>Goff Pt.</u>	-----	-----	41°01.3'
✓ <i>N.B.</i>	<u>Long Island</u>	Same	-----	-----	41°00.8' 72°00.8'
✓	-----	<u>Rocky Pt.</u>	-----	-----	41°02.8' 71°59.3'
✓ <i>N.B.</i>	<u>Fort Pond Bay</u>	Same	-----	-----	41°02.9' 71°58.3'





Rae

October 20, 1934.

Division of Hydrography and Topography:

✓ Division of Charts:

Tide Reducers are approved in  
9 volumes of sounding records for

HYDROGRAPHIC SHEET 5515

Locality Rocky Point to Little Gull Island, Long Island, New York

Chief of Party: W.D. Patterson in 1934  
Plane of reference is mean low water reading  
2.2 ft. on tide staff at Greenport  
6.5 ft. below B.M. 2

1.8 ft. on tide staff at Plum Gut Harbor  
14.1 ft. below B.M. 1

1.3 ft. on tide staff at Three Mile Harbor Jetty  
11.8 ft. below B.M. 1

Height of mean high water above plane of reference  
is approximately 2.5 ft.

Condition of records satisfactory except as noted below:

*H. Hammer*  
Acting Chief, Division of Tides and Currents.

Nov 20, 1934

Section of Field Records  
Report on Hydrographic Sheet No. 5515  
Glass Island Sound, N. Y.  
Rocky Point to Little Gull Island.  
New York.

Chief of Party - A. William D. Patterson  
Surveyed by George J. Jordan  
Projected by C. R. Smith and J. C. McHavane  
Soundings penciled by C. R. Smith.  
Verified and inked by W. L. Muller.

This sheet had no preliminary inspection and was inspected during the verification. As a whole the work seems to have been very well done, very few discrepancies in plotting being found.

There are various notes on sheet which apply to areas that the verifier does not feel competent to pass final judgment upon. It is requested that the reviewer go into these places and make his recommendations thereon.

The soundings between 3B and 5B (blws) <sup>(41-025 A 72-06)</sup> have been used as shown on the smooth sheet, although in disagreement with the boat sheet and <sup>angles</sup> etc in records. The OK

angle

but in the record at 4B is questioned.

Position 41-B (blue) does not agree with the boat sheet but plots correctly according to the records. The writer cannot make it agree with the boat sheet by any of the usual methods of detecting errors.

is probably recorded 10° too small, pos. replotted

Positions 27F to 40F (blue) have not been inked (See D.R. First item under Discrepancies) and left to reviewer for decision.

There are various places where sudden drops and shoals occur. These spots the writer also passes on to the reviewer with regrets (See particularly 81-83P (Green) ✓ and 21-22Q (Green) ✓)

Position of Buoy C1 - does not correspond to position of buoy bearing same identification, as shown on chart.

Reviewer's attention is also called to Rocks at 79V (Green) - Vol. 7 - Page 57 and 48V (Green) - also pos 68V (Green) in vicinity of Cook's Island replotted

~~There is a buoy shown on chart at Constellation Rock which does not appear in survey.~~

Respectfully submitted  
W. L. Muller

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 5515(1934)

Rocky Pt. to Little Gull Island, Block Island Sound, L.I., New York

Surveyed May - July, 1934

Instructions dated May 14, 1934 (W.D.Patterson)

Hand lead Soundings - 3 Point Fixes on Shore Signals.

Chief of Party - Lieut. Wm. D. Patterson.

Surveyed by - George F. Jordan.

Protracted and soundings by - C. R. Smith & J. C. McIlwaine.

Verified and inked by - W. L. Millen.

1. Condition of Records.

The records conform to the requirements of the Hydrographic Manual.

2. Compliance with Instructions for the Project.

The plan and extent of development conform to the instructions for the project.

3. Sounding Line Crossings.

In general the agreement in depth at cross lines is satisfactory. Soundings on line F27 to F40, blue, (beginning lat.  $41^{\circ}07.6'$ , long.  $72^{\circ}02.2'$ ), are too deep due to the difficulty of obtaining up and down casts because of strong current and the speed of the Launch. See D.R. under Discrepancies. These soundings have not been inked on the smooth sheet.

4. Depth Curves.

Within the limits of the survey the usual depth curves may be satisfactorily drawn including portions of the 6 foot curve.

5. Junction with Adjacent Surveys.

a. H-5513(1934)

Junction with this survey is satisfactory except for a small holiday northeast of Little Gull Island. The bottom southwest of Great Gull Island is very irregular and a closer development in the overlapping area would have been desirable.

b. H-5514(1934)

Junctions with this survey is satisfactory, the agreement in depth is good except in the deeper area (lat.  $41^{\circ}09.5'$ , long.  $72^{\circ}08'$ ) where differences of 6 to 12 feet in depths of 15 fathoms are found. The differences are probably due to the difficulty of getting accurate up and down casts with the land lead in this depth of water under existing conditions.

c. H-5516(1934)

The junction with this survey is satisfactory.

d. H-5344(1933-34)

The junction with this survey is satisfactory.

e. H-4893(1928)

This survey joins H-5515(1934) to the southwest. Only a part of the junction shows the extent of overlap specified for junctions of this class in paragraph 107 of the Hydrographic Manual. However the agreement in depth is good and the junction in general is adequate.

f. H-1529a(1882) H-1590a(1883)

The present survey overlaps these surveys to a junction at its eastern edge where the depths are in good agreement; H-1529a(1882) however is of scale 1-40,000 and the sounding lines are rather far apart. The overlapping area is discussed in paragraph 6b under "Prior Surveys".

6. Comparison with Prior Surveys.

a. H-80(1838)	H-88(1845)	H-96(1839)
H-86(1839)	H-89(1845)	
H-87(1839)	H-91(1839)	

These surveys represent the first survey by the Bureau of the area under consideration. The lines are spaced far apart and give no indication of a number of shoal areas located by the later surveys. Soundings generally were plotted in feet to a depth of 24 feet and in whole fathoms beyond that depth. In view of this the agreement in depth is remarkably good but no part of these surveys need be retained for charting.

b. H-1529a(1883-6)	H-1543(1882)
H-1539(1882 and 1911)	H-1590a(1883 and 1901)

These surveys are in fair depth agreement with H-5515(1934). There are some irregularities due to lumps or boulders but the bottom in general appears to be stable except for wave action along shore.

(1) The two charted 6 foot spots in lat. 41°02.5', long. 72°05' come from H-1543(1882) where they are shown as 6 $\frac{1}{2}$  and 6 $\frac{3}{4}$  foot depths. They have been retained in conformity with the recommendation on page 3 of the Descriptive Report.

(2) The charted 45 in lat. 41°09.35', long. 72°06.4' comes from

H-1529a (1883-6) as a  $7\frac{1}{2}$  fathom sounding. The present survey shows 68 feet in almost the same spot; although the sounding was marked with a check in the record the existence of the 45 is very doubtful. A very light lead was in use, the leadsman, a Scandinavian, was changed on the preceding sounding and it is easily possible that an  $11\frac{1}{2}$  was called instead of  $7\frac{1}{2}$  fathoms. The 45 should be retained on the charts.

(3) The charted 16 foot spot in lat.  $41^{\circ}10.45'$ , long.  $72^{\circ}07.7'$  comes from a special investigation in 1884 plotted on H-1590a. The least depth found by the 1934 survey on this spot was 18 feet but as the surrounding depths show no changes the 16 should be retained as the least depth on the shoal.

(4) Constellation Rock (charted) in lat.  $41^{\circ}10.5'$ , long.  $72^{\circ}06.6'$ . The least depth found during the 1934 survey was 26 feet. The area was also examined with the wire drag but the only record of this work submitted is the statement in the Descriptive Report page 3, which states that no fouling of drag was found at 20 foot depth.

This rock was originally located by position 16 on U day of H-1590a (1883). 17 feet was found on the rock. There was smooth with sea and light wind at the time. 5 other soundings of 19 to 21 feet for each sounding were found in the immediate locality.

No details of the 1934 wire drag examination were submitted and the results cannot be considered as discrediting the original 17 foot sounding. 17 feet will be shown on the sheet and charted.

(5) The shoreline of Little Gull Island has changed, the eastern and western ends both being shown as sunken reefs on the 1934 survey. The bottom off this island and in the pass to the westward is very irregular. In view of the statement on page 2 of the Descriptive Report relative to the inadequacy of the 1934 survey, the information on H-1590a(1883 and 1901) in this vicinity should be used to supplement the present survey.

c. H-3022(1909-10), H-3907(1916), H-4042(1918-19).

These are wire drag surveys that affect only a small portion of the area under consideration. Four positive soundings (40, 50, 53 and 55, approx. lat.  $41^{\circ}-9.5'$ , long.  $72^{\circ}05'$ ) have been retained from H-4042(1918-19), and are shown in red on H-5515(1934).

The charted 46 foot sounding, lat.  $41^{\circ}06'$ , long.  $72^{\circ}01'$ , is from W.D. 3907(1916). The unchecked sounding was obtained under adverse conditions and is probably an error as the depths at this spot on H-1529a(1882) are in agreement with H-5515(1934). The 46 foot sounding while doubtful, has been retained on H-5515(1934) until disproved.

The charted 50 foot sounding, lat.  $41^{\circ}07.15'$ , long.  $71^{\circ}58.3'$ , is from H-3907 W.D. (1916) and falls in depths of 68 feet on the present survey. The sounding is marked as "wreckage" on H-3907 W.D. (1916) and has been brought forward in red to H-5515 (1934).

H-3022(1909-10) shows a wire drag strip, effective depth 13 feet over the 16 foot spot noted in par. 6b (3) but no actual soundings were taken.

d. See Addenda attached to this review.

7. Comparison with Chart No. 298 and Chart No. 1211.

Within the area of the present survey the chart is based on surveys discussed in the foregoing paragraphs and contains no additional information that needs consideration in this review.

Aids to navigation are in agreement with their charted positions except:

(1) Buoy C1 northeast of Little Gull Island is about 300 meters northeast of its charted position.

(2) Constellation Rock buoy is about 100 meters south of its charted position.

(3) The channel buoy northeast of Goff Point (lat.  $41^{\circ}02.4'$ , long.  $72^{\circ}03.5'$  is  $2/3$  mile north of its charted position. It is plotted from a detached 3 point fix but the depth does not agree with the general depth in the vicinity. Possibly the wrong left object was recorded. However the plotted position of the buoy is of little importance as all floating aids to navigation are replaced on station annually on the opening of navigation in the Spring and should be charted accordingly.

8. Field Plotting.

The field plotting was satisfactory.

9. Additional Field Work.

The survey in general is satisfactory.

The small holiday in the junction with H-5513(1934) northward of Little Gull Island and the wire drag work in the vicinity of that island, recommended by the Chief of Party, is not deemed important enough to warrant a special survey.

When work in this vicinity is resumed a special search with the wire drag should be made of the area in which "50 wreckage" is plotted, (Lat.  $41^{\circ}07.15'$ , long.  $71^{\circ}58.3'$ ) and the 46 in lat.  $41^{\circ}06'$ , Long.  $72^{\circ}01'$ . (See par. 6c). The vicinity of Constellation Rock should again be dragged and the least depth determined. Special attention should be paid to the lift of the drag.



10. Superseding Old Surveys.

Within the area covered the present survey with indicated additions from previous surveys, supersedes the following surveys for charting purposes:

- H-80 (1838) in part.
- H-86 (1839) " "
- H-87 (1839) " "
- H-88 (1845) " "
- H-89 (1845) " "
- H-91 (1839) " "
- H-96 (1839) " "
- H-1529a (1883-6) in part.
- H-1539 (1882 and 1911) in part.
- H-1543 (1882) in part.
- H-1590a (1883 and 1901) in part.

11. Reviewed by - R. J. Christman, February, 1935.

Inspected by - E. P. Ellis.

Examined and approved:

Chas. K. Green, *C. K. Green*  
Chief, Section of Field Records.

*K. T. Adams*  
Asst Chief, Division of Charts.

*Y. S. Jordan*  
Chief, Section of Field Work.

*G. H. S.*  
Chief, Division of H. & T.

*Applied to drawing of Chart 298, July 3, 1935*  
*Applied to drawing of Chart 1211, July 17, 1935*  
*Applied to " " " 1212 Apr. 1936 J.M.G.* *J.H.S.*

Addenda to Review of H-5515 (1934).

Par. 6. Comparison with Prior Surveys.

d. H-4008-a (1917-18) WD.

A portion of this 1:20,000 scale wire dray survey covers a small part of the present survey on the extreme north. It contains no information that is in conflict with the depths shown on the present survey.

Reviewed by - Harold W. Murray, Dec. 23, 1936.

Inspected by - L. A. Shalowitz.

25 Feb 13, 1936  
LAW

Applied to 362 RDA 10/10/49

Applied to 13212 RECONSTRUCTION RPH 3-23-79