

4744a

4744c.w.d.

4744b

4744a 4744c.w.d.

Diag. Ckt. No 5101-2

Form 504
 DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

State: California

11-5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 4744a

4744c.wire drag

LOCALITY:

San Diego Bay

San Diego Harbor

1928

CHIEF OF PARTY:

F. G. Engle

S-32-33-134

Statistics and list of sounds of additional work added to this report May 17, 1928
CAR

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. 47442

47442

State . . . California

General locality . . . San Diego Harbor Bay

Locality . . . ~~Reported~~ 27 ft., spot. San Diego Harbor

Chief of party . . . F. G. Engle

Surveyed by J. Senior

Date of survey . . . February 2, 1928.

Scale 1/5000

Soundings in . . . Fest.

Plane of reference M.L.L.W.

Protracted by . . . T.B.R. . . . Soundings in pencil by T.B.R. . . .

Inked by . . . ~~T.B.R.~~ Verified by

Records accompanying sheet (check those forwarded):

Des. report, . . . 1 Tide books, Marigrams, 1 Boat sheet

1 Sounding book, Wire-drag books, Photographs.

Data from other sources affecting sheet

Remarks:

Sheet #1.

AND REFER TO No. 11-DRM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 27, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4744a

San Diego Bay

Surveyed in 1928

Instructions dated January 11, 1928

Chief of Party, F. G. Engle.

Surveyed by J. Senior.

Protracted and soundings plotted by T. B. Reed.

Verified and inked by F. B. Kelly.

1. The records conform to the requirements of the General Instructions.
2. The plan and character of development fulfill the requirements of the General Instructions.
3. No curves were drawn by the field party.
4. Crossing lines show good agreement.
5. Only one shoal spot was discovered, 26 feet being the minimum depth.
6. Beacons Nos. 5, 6, and 8 were plotted slightly in error, due probably to a distortion in the photostat copy of Topo. 4008 from which they were taken. Signal \odot Ad was also in error. These changes probably caused the slight error in 4 fixes.
7. Fifty-five fixes of a total of 174 were checked.
8. In 11 instances where the compass course changed between fixes this change was overlooked in plotting the smooth sheet.
9. Soundings while turning between fixes were plotted as on the boat sheet.
10. Field work - good.
11. Report by F. B. Kelly, March, 1928.

11

March 16, 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
1 volume of sounding records for

HYDROGRAPHIC SHEET 4744a

Locality: SOUTHERN CALIFORNIA.

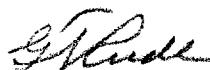
Chief of Party: F. G. Eagle, 1928.

Plane of reference is M L L W

2.0 ft. on tide staff at San Diego (C. & G.S. Staff)

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.



Chief, Division of Tides and Currents.

AND REFER TO No. 11-VEC

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

March 28, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4744 A and C.

Examination of shoal off Beacon #8, San Diego Harbor.

Surveyed in 1928.

Instructions dated January 11, 1928 (DISCOVERER).

Chief of Party F. G. Engle.

Surveyed by - F. G. Engle (Wire Drag), J. Senior (Hydrography).

Protracted and soundings plotted by T. B. Reed.

Verified and inked by F. B. Kelly.

Drag Work plotted and inked by T. B. Reed.

Verified by G. Risegari.

1. This survey was made primarily for the purpose of examining a 27 foot shoal reported by the Navy Department in the vicinity of lat. 32-43-101 m., long. 117-11-1517 m. The original survey (H-4268) from which the shoal was charted showed a 27 foot sounding about 40 meters to the westward of the one found by the Navy and another 27 foot sounding about 75 meters further west where the Navy reported depths of 40 feet.

2. As the present survey corroborated in a general way the depths found by the Navy, an examination was made of the original survey (H-4268), to determine whether any errors were made in the plotting. The lines containing the shoal in question were re-plotted on a 1-5,000 scale sheet and the soundings carefully spaced thereon. The re-plotting differed radically from the original plotting so a careful study was made of the old plotting with a view to determine wherein the verifier erred. As best as could be determined the following appears to be what happened:

- Q. Positions 67 and 68 q were correctly plotted, but the soundings on these positions were interchanged, and a 27 foot sounding placed on 68 q and a 32 foot sounding on 67 q, instead of the reverse. Had this not occurred, a 27 foot sounding would have been charted much closer than where the U. S. S. TEXAS grounded.
- b. Position 69 q was apparently correctly plotted, but instead of connecting 68 and 69 q, 68 q and 69 m were connected and the soundings spaced thereon. As 69 m plots about 259 meters to the westward of 69 q, it is readily seen where the 27 foot sounding on the line 68 q - 69 q would be thrown.
3. The replotting of the old work substantiates very closely the new survey as well as the findings by the Navy (letter 27-1928) to wit:
 - a. That a 27 foot shoal exists considerably to the eastward of the shoal as shown on Chart 5107.
 - b. That in the position of the 27 foot shoal as charted at present, there is approximately 40 feet of water.
4. No additional work seems necessary in view of the corrections made in the original plotting of H-4268. However, attention is directed to the following:
 - a. The work has not been ~~extended~~ extended inshore to the 6 foot curve as called for in par. 4 of the Specific Instructions.
 - b. A clearance depth should have been obtained over the shoal in question in order to determine the least depth over it.
 - c. An examination should have been made of the 33 foot wire drag grounding in lat. 32-43-192 m., long. 117-12-56 m. A note in the drag record (pos. 29 A) says "Drag grounded at N. Buoy, but drifted off as soon as launch was stopped." It should be noted that this is only 28 meters away from a 34 foot sounding found on the hydrographic survey (83-84 a, H-4744 a). This sounding is marked "rky" and is from 3 to 10 feet shoaler than the surrounding depths. This shoal is well out towards the channel and should water shoaler than that found on this survey exist here, it would be a far greater menace to navigation than the above considered 27 foot shoal. It should . . . be investigated.

5. Attention is called to the fact that the conclusion reached above relative to the reported 27 conflicts with the statement by the Chief of Party in the descriptive report and in par. 4 of Letter 85-1928 that "No indication of the reported 27 foot spot was found." This discrepancy is readily explained by referring to the wire-drag boat sheet where the reported 27 is plotted considerably to the eastward of where the Navy reported it and well within the 29 foot drag area. This probably came about in the following manner: Paragraph 2 of the specific instructions directs attention to the fact that the Navy has reported the existence of a 27 foot shoal lying about 350 feet eastward of the charted 27 foot shoal. When the present survey party made a hydrographic examination of the area they found a 27 foot spot considerably to the eastward of the charted 27. Now instead of measuring 350 feet from the charted 27, they measured this distance from the 27 which they found and spotted this on the wire drag boat sheet, naturally, there is no such depth at this point. Had they measured the distance from the correct point they would have found that the shoal which they developed on the hydrographic sheet agrees approximately with that found by the Navy. Therefore all remarks in the descriptive report and in Letter 85-1928 relative to the ^{non-}existence of this shoal should be disregarded.

6. No A & D sheet has been prepared for the wire drag sheet as the effective depths are clearly apparent.

7. Attached to the descriptive report and as a part of this review is a tracing showing the results of the study made in connection with the original hydrographic sheet (H-4268). The tracing is self explanatory and needs no further comment.

8. Reviewed by A. L. Shalowitz, March, 1928.

Approved:

A. L. Giacomini

Chief, Section of Field Records (Charts).

L. O. Pollock

Chief, Section of Field Work (H. & T.).

4744b

4744b

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

State: California

11-5613

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 4744b

LOCALITY:

San Diego Harbor

Municipal Wharf

1928

CHIEF OF PARTY:

F. G. Engle

S-32-33-34

1 Sheet Statistics of Additional Work, added to this report May 13, 1928
C. A. B.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

4744b

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. ³ 4744b

State California

General locality . San Diego Harbor

Locality Municipal Wharf

Chief of party . . F. G. Engle

Surveyed by . . . J. Senior

Date of survey . . February 1 - 2, 1928.

Scale . . . 1/5000

Soundings in . . Feet

Plane of reference . M.L.L.W.

Protracted by . T.B.R. . . Soundings in pencil by T.B.R. . .

Inked by Verified by

Records accompanying sheet (check those forwarded):

Des. report, 1 Tide books, _____ Marigrams, 1 Boat sheet~~xx~~

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

Data from other sources affecting sheet

Remarks:

Sheet #3.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET (FIELD #3) - - - - SAN DIEGO HARBOR, CALIF.

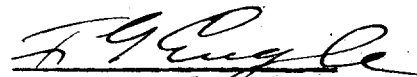
Executed in accordance with Director's Instructions dated December 22, 1927.

Surveyed by wire center hand lead line from launch of U.S.S. DISCOVERER.

The Smooth Sheet was made and plotted prior to the receipt of Plane Table positions and these were scaled from a photostat of Topographic Sheet No., 4008 (o Pier, o Nip, Sup, o My and o Ad). o Day was a banner located from a 3 point fix using the photostat as a Sheet and Δ Court House o Ad Δ Square Chimney, Red Brick Bldg., and o Pier. o San was a banner and was located by a cut from a 3 point fix at o Day using the chart as a sheet, and the distance from the edge of the pier. The pier lines were taken from the chart with the exception of the end of the old pier at o San which was corrected.

The soundings were reduced by a staff gauge at Municipal Pier which was connected with C. & G.S. bench mark #13.

Respectfully submitted,


F. G. Engle,
H. & G. Engineer,
Chief of Party.

STATISTICS FOR HYDROGRAPHIC SHEET NO.3

Day	Date	No. of Pos.	No. of Sdgs.	No. Miles	Vessel
a	Feb. 2	134	377	13.8	Stbd. M. S.
b	" 2	51	131	6.0	" "
Total -----		185	508	19.8	

Copy for Record Section files.

March 16, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
1 volumes/ of sounding records for

HYDROGRAPHIC SHEET 4744b

Locality: **SAN DIEGO HARBOR, CALIFORNIA.**

Chief of Party: **F. G. Eagle, 1928.**

Plane of reference is **M L L W**

2.0 ft. on tide staff at **San Diego (C. & G.S. Staff)**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

F. G. Eagle

Chief, Division of Tides and Currents.

March 26,
1928

Report on H. 4744-b
Survey in 1928.

Chief of Party, - F. G. Engle
Surveyed by - J. Junior
Projected & Plotted by - T. B. Reed
Verified and inked by - John G. Ladd

1. The records conform to the requirement of the general instructions.
2. The plan and character of development fulfill the requirement of the general instructions.
3. Its sounding line crossings are adequate.
4. Its usual depth curves could be drawn.
5. The field drafting was very good.
6. As all the signals except "Day" and "Sun" were plotted on the smooth sheet in the field from a photostat of Topographic sheet #4008. It was found necessary after a direct check with the Topographic sheet #4008, to move signal, "Nip", "My" and "Sup." about 3 miles north.
7. As per a note signed by F. G. Engle on the smooth sheet, "O Day" was transferred from a 3 ft. P.T. fix on the photostat of T 4008 and "O Sun" was from a P.T. cut from "O Day" on chart

as a sheet together with the distance
from the edge of the docks."

John G. Lacey
jr. Capt. Eng.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

March 26, 1928.

AND REFER TO No.

3-VEC

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4744^b

Vicinity of Municipal Wharf - San Diego Harbor

Surveyed in 1928

Instructions dated Dec. 22, 1927. (DISCOVERER).

Chief of Party F. G. Engle.

Surveyed by Jack Senior.

Protracted and soundings plotted by T. B. Reed.

Verified and inked by J. G. Ladd.

1. The records conform to the requirements of the General Instructions.

2. This survey was intended primarily as an examination of the dredged channel north of the new Municipal Pier and adjacent to the sea wall. From the detailed hydrography done in the vicinity of the black and red horizontal striped buoy south of the old Municipal Pier, it would seem that the specific instructions were somewhat misinterpreted.

3. From the few widely spaced lines that were run in the questionable area it is evident that a shoaling has taken place and that Chart No. 5107 does not represent actual conditions. This applies to the channel running parallel to the Municipal Pier where a clear depth of 32 feet is shown on the chart and to the channel running parallel to the sea wall where a dredged depth of 20 feet is shown. This substantiates the general conclusion reached by the Naval Board of Investigation in connection with the grounding of the U. S. S. KINGFISHER. (Letter 657 - 1927).

4. While the depths in the main channel appear to be generally about the same as charted, there are several soundings on Chart No. 5107 that seem no longer to exist. They are as follows:

- a. The 32 foot sounding (auth. H-4268) 130 meters southwest of the S.W. corner of Municipal Pier, where the present survey shows 34 to 35 feet.
- b. The charted 32 foot sounding about 70 meters southwest of buoy S "5 B" falls amongst 35 and 36 foot soundings.
- c. The 31 foot sounding (auth. B. P. 18631) about 190 meters due west of the S.W. corner of Municipal Pier falls close to 35 foot sounding. However, since the original blue print shows similar depths surrounding it the sounding should not be removed from the chart.

It should be noted that while all of the above cases show evidence of possible changes, they should not be considered as conclusive since the late survey shows indications of lumpy bottom.

5. The usual field plotting was done by the field party. It should be noted that the Spar buoy to the north of the Municipal Pier and in line with its face was plotted by the field party about 32 meters west of its true position as based upon estimated distances from positions 12-13 b and 19 b.

6. Attention is called to the following:

- a. The red and black horizontal striped buoy to the south of the old Municipal Pier was found to exist about 60 feet inshore of its charted position. Since it is intended to mark the outer end of the shoal it is essential that it be correctly shown.

- b. The long dock to the south of the old Municipal Pier is not correctly shown on the chart.

The hydrographic sheet shows its correct outline (Letter 85-1928), and should be used as a basis for correcting the present charts.

Since the dock is falling to pieces, and appropriate legend to this effect should appear on the chart.

7. Additional work is required in the dredged channel north of the Municipal Pier and in the dredged channel adjacent to the sea wall to determine the full extent of the shoaling as was apparently contemplated by the specific instructions. However, if an indication of shoaling is all that was desired then this survey is sufficient.

8. Reviewed by A. L. Shalowitz, March, 1928.

Approved:

A. L. Giacomini

Chief, Section of Field Records (Charts)

L. O. Pollock

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4744b Add'l. Wk.

HYDROGRAPHIC TITLE SHEET

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. 4744b Add'l. Work
on Original Sheet

State ----- California -----

General locality ----- San Diego Harbor -----

Locality ----- Off Municipal Piers Wharf -----

Scale 1/5,000 ----- Date of survey April 16, 17, 1928 -----

Vessel ----- DISCOVERER -----

Chief of Party ----- F.G. Engle -----

Surveyed by ----- L.D. Graham -----

Protracted by ----- G.R. Fish -----

Soundings penciled by ----- G.R.F. -----

Soundings in ~~#####~~ feet

Plane of reference ----- MLLW -----

Subdivision of wire dragged areas by -----

Inked by -----

Verified by -----

Instructions dated ----- April 2&7, 1928 -----

Remarks: ----- Additional work -----

Statistics for additional work 1928 added to orig report.

CRB May 17, 1928

Statistics for Sheet H4744b

Additional Work 1928-shown on original sheet

Date	Day	Boat	Vol.No.	No.Sdgs.	No.Pos.	Stat. mi.sdg.lines	
April 16	c	Stbd. Launch	2	391	112	7.1	
"	17	d	"	2	418	90	7.0
Totals				809	202	14.1	

J.H.

(11)

Copy for Section of Field Records files.

May 22, 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
/ volumes of sounding records for

* HYDROGRAPHIC SHEET

4744b *addl.*

Locality:

San Diego, California.

Chief of Party:

Plane of reference **F. I. Eagle, 1928**
ft. on tide staff at

H L L W

A. O

San Diego, (C. & G. Staff)

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

E. H. ...

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 11-DRM

WASHINGTON

May 28, 1928.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4744b (Additional Work)

Surveyed in 1928.

Chief of Party, F. G. Engle.

Surveyed by L. D. Graham.

Protracted and soundings penciled by G. R. Fish.

Verified and inked by H. E. MacEwen.

1. The records conform to the requirements of the General Instructions, except that boats' headings by compass were omitted entirely.
2. This work was done to completely develop the dredged channel north of the new municipal wharf where indications of shoaling were noticed. It fulfills the requirements of the specific instructions in this respect.
3. The sounding line crossings are adequate.
4. The usual depth curves can be completely drawn in the developed areas.
5. The field drafting was very good.
6. No further surveying is required to fully develop important areas within the limits of this sheet.
7. Rating of work: (a) Character and scope of surveying, very good.
(b) Field drafting - very good.
8. Reviewed by H. E. MacEwen, May, 1928.

Sheet inspected by A. L. Shalowitz.

Approved:

Chief, Section of Field Records (Charts)

Chief, Section of Field Work (H. & T.)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

Wire Drag.

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. **4744C**

4744C

State **California**

General locality . . . **San Diego Harbor Bay**

Locality ~~Reported 27 ft., spot.~~ **San Diego Harbor**

Chief of party . . . **F. G. Engle**

Surveyed by **F. G. Engle**

Date of survey . . . **February 3, 1928**

Scale **1/5000**

Soundings in . . . ~~Meters~~ **Feet**

Plane of reference . . **M.L.L.W.**

Protracted by . . **T.B.R.** . . Soundings in pencil by

Inked by **T.B.R.** . . Verified by . . **T.B.R.**

Records accompanying sheet (check those forwarded):

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

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

Data from other sources affecting sheet

Remarks: *See Desc. Rep. with 4744a*

**Wire Drag
Sheet #1.**

C. & G. SURVEY
L. & A.
FEB 28 1928
Acc. No.

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SHEET (FIELD #1) -- (1 SOUNDING SHEET & 1 WIREDRAG SHEET).
F.G. ENGLE, CHIEF OF PARTY. -- DIRECTOR'S INSTRUCTIONS DATED JAN. 11, 1928.

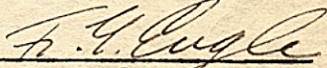
Soundings were taken with a wire center leadline from launch of
U.S.C. & G.S.S. DISCOVERER.

No indication of the reported 27 ft., spot was found and the area
was covered by a 500 ft., wire drag of the standard type using a canvas
buoy and 35 lb., weight at each 100 ft., section and a 100 ft., towline
to both end buoys and end weight which latter was a 70 lb., sounding shot.
The lift was measured during the work and at moderately slow speed was
found to be less ^{1/2} ft., in middle and less than 3 ft., at ends and at dead
slow speed was 1 ft., in middle.

The drag depth was not as deep as was intended due to an error in
figuring the setting of uprights but the reported 27 ft., spot was covered
with a depth of 29 feet and in the absence of any indication from the
soundings it would seem that there is no shoal at all at this point.

The position of \odot AD, Buoy #8 and \odot LON₂ were transferred from the
photostat of Topographic Sheet No., 4008 as the list of positions was not
available at the time the Smooth Sheet was plotted.

Respectfully submitted,


F. G. Engle,
H. & G. Engineer,
Chief of Party.

not correct
See review

not
correct
See
review
a. L. S.

AND REFER TO No. 11-DFM

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

May 25, 1928.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4744^C (Additional Work)

Examination of Shoal off Beacon No. 8, San Diego Harbor.

Surveyed in April, 1928

Instructions dated April 2, 1928

Chief of Party, F. G. Engle.

Surveyed by L. D. Graham.

Plotted and inked by G. A. Nelson.

Verified by R. L. Johnston.

1. The instructions for this work call for an investigation of the 34 foot, rocky, sounding located 350 meters northeast of Beacon No. 8, and an examination of the 33 foot spot where the drag grounded about 347 meters northeast of Beacon No. 8. Both of these spots were cleared by a drag with an effective depth of 30 feet. A sounding of 31 feet was obtained in this locality by the hydrographic party and is shown on hydrographic sheet No. 4781.
2. A least depth of 24 feet was established at the position of the 26 foot sounding previously obtained. The drag grounded here at pos.6 B with an effective depth of 25 feet. The point was later cleared with an effective depth of 23 feet.
3. The records conform to the requirements except that the length of the towline should have been plainly marked feet.
4. The depth and extent of dragging satisfy the instructions.
5. The overlaps are sufficient.
6. No further dragging is required within the limits of this work.

7. The field plotting was well done.
8. An Area and Depth Sheet has now been prepared to cover all the work in this area.
9. Reviewed by R. L. Johnston, May 25, 1928.

Sheet inspected by A. L. Shaloff.

Approved:

Chief, Section of Field Records (Charts)

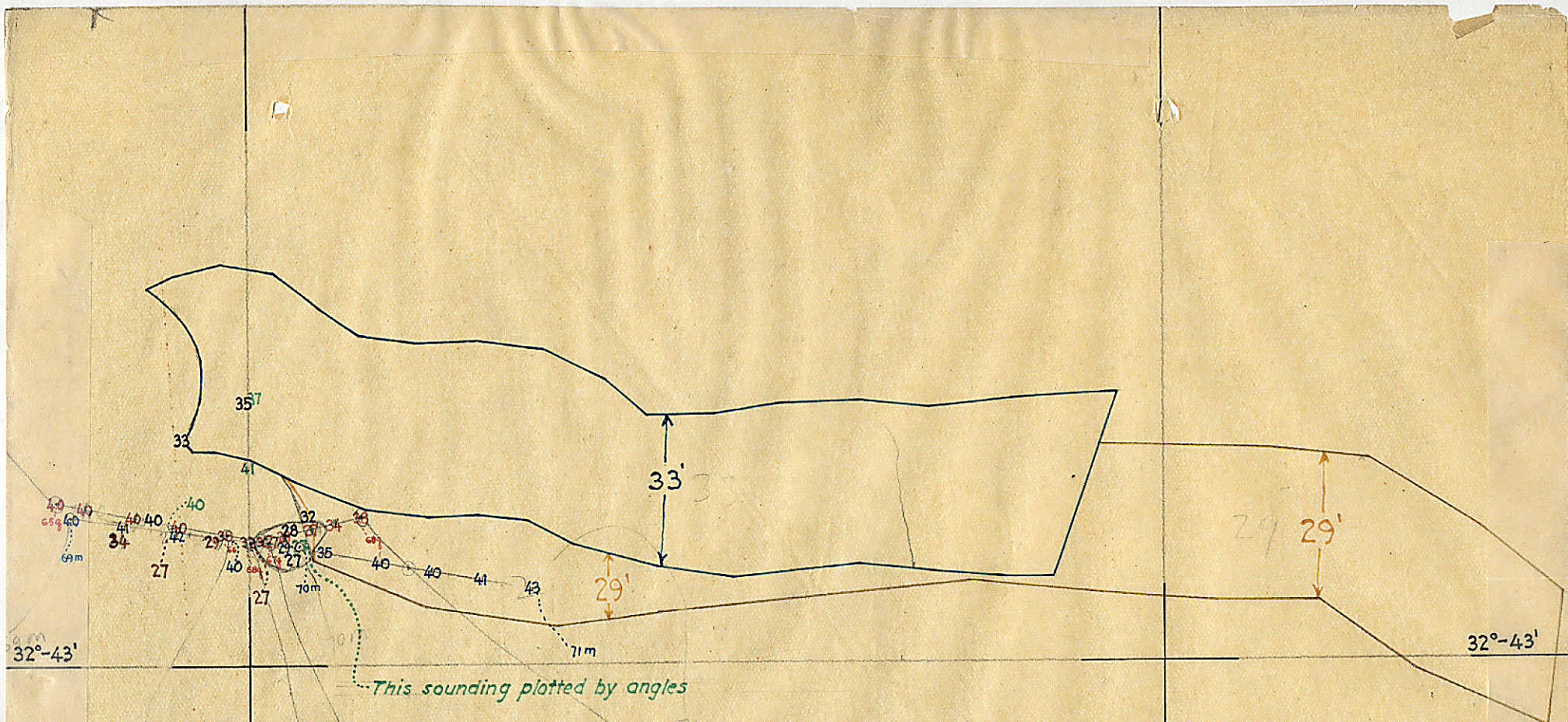
Chief, Section of Field Work (H. & T.)

LIST GROUNDS

TO ACCOMPANY WIRE DRAG SHEET NO.4744c
Add'l.Wk. on original Sheet

Pos. 6 B: Grounded with an effective depth of 25 feet.

Sounding of 24 feet rocky, obtained. Cleared later with 23
feet.



This sounding plotted by angles

SCALE, 1-5,000

LEGEND

- Drag limits and soundings in black are traced from H-4744 C
- Soundings in brown are transferred from H-4268 (69-69 g)
- Soundings in red are correct plottings of 65-69 g (H-4268)
- Soundings in blue are correct plottings of 69-71 m (H-4268)
- Soundings in green are transferred from Navy blue print (Letter 27-122)

117° 12'

117° 11'-30"

H-4744-C

Prepared by A.L. Sholowitz

STATISTICS FOR HYDROGRAPHIC SHEET NO. 1

WIRE DRAG

Day	Date	No. of Pos.	Miles (statute)	Vessel
a	Feb. 3	29	0.5	Stb'd M. S.
a	" 3	<u>18</u>	<u>0.5</u>	Port M. S.
Total	-----	47	1.0	

SOUNDING

Day	Date	No. of Pos.	No. Sdgs.	Miles (statute)	Vessel
a	Feb 3	174	380	16.1	Stb'd M.S.

Copy for Record Section files.

March 16, 1928.

(11)

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 4744a

Locality: **SAN DIEGO HARBOR, CALIFORNIA.**

Chief of Party: **F. G. Kagle, 1928.**

Plane of reference is **M L L W**
2.0 ft. on tide staff at **San Diego (U.S. Staff)**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

G. Rude

Chief, Division of Tides and Currents.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

WIRE DRAG
~~HYDROGRAPHIC~~ TITLE SHEET

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. 4744c Add'l Work
on original sheet.

State _____ California _____

General locality _____ San Diego Harbor _____

Locality _____ North of Aviation Base _____

Scale 1/5,000 Date of survey April 18, 1928

Vessel _____ DISCOVERER _____

Chief of Party _____ F.G. Engle _____

Surveyed by _____ L.D. Graham _____

Protracted by _____ G.A. Nelson _____

Soundings penciled by _____ G.A.N. _____

Soundings in ~~f####~~ feet

Plane of reference _____ MLLW _____

Subdivision of wire dragged areas by _____

Inked by _____

Verified by _____

Instructions dated April 2 & 7, 1928

Remarks: _____ Additional work _____

_____ One BS. shows the work for H. 4781 _____

REG. NO. 4744c Add'l Wk.

Statistics for Wire Drag Sheet No.4744c
Add'l. Work-on orig. Sheet

Date	Day	Boat	Vol. No.	No.Pos.	No.Sdgs.	St.mi.drag lines
April 18	B	Stbd.& Port Launch	2	36	3	2.9

(11)

May 22, 1928.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 47446 *addl.*

Locality: **SAN DIEGO, CALIFORNIA.**

Chief of Party: **F. G. Eagle, 1928.**

Plane of reference is **M L L W**

2.0 ft. on tide staff at **San Diego (C. & G.S. Staff)**

Condition of records satisfactory except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

E. H. ...

Chief, Division of Tides and Currents.