

6148

WIRE DRAG

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

JAN 16 1937

Acc. No. \_\_\_\_\_

WIRE DRAG

6148

Form 504  
Ed. June, 1928

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY  
R. S. Patton, Director

State: California

**DESCRIPTIVE REPORT**

WIRE DRAG  
~~Topographic~~ } Sheet No. 5  
~~Hydrographic~~

LOCALITY

Northern California Coast

Latitude 39° 32' to 39° 36.5'

Ten Mile River Beach to Bruhels Pt.

1936

CHIEF OF PARTY

F. H. Hardy

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES  
JAN 16 1937  
REG. NO.  
Acc. No. \_\_\_\_\_

WIRE DRAG  
~~HYDROGRAPHIC SURVEY~~ 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. 5

REGISTER NO. H 6148 (W.D)

State California

General locality Northern  
~~Coast of California~~ Coast

Locality ~~Latitude 30° 32' to 30° 38.5'~~ Ten Mile River Beach to Bruhels Pt.

Scale 1 : 10,000 Date of survey September 5-7, 1936

Vessel U.S.C. & G.S.S. GUIDE

Chief of Party F. H. Hardy

Surveyed by I. E. Rittenburg

Protracted by M. G. Ricketts

Soundings penciled by M. G. Ricketts

Soundings in fathoms ~~feet~~ Drag depths in feet.

Plane of reference M L L W

Subdivision of wire dragged areas by M. G. Ricketts & L. W. Swanson

Inked by M. G. Ricketts

Verified by Harold W. Murray  
Chief, Div. H & T

Instructions dated May 31, 1934 & Letter, Jan. 21, 1936

Remarks: Dual Control. Positions by visual fixes using

Chartered Launches VIRGINIA and CAPON.

DESCRIPTIVE REPORT  
to accompany  
WIRE DRAG SHEET FIELD NO. 5  
Project No. HT-206

INSTRUCTIONS: Instructions for this work were dated May 31, 1934, and the third paragraph of a letter from the Chief, Division of Hydrography and Topography dated January 21, 1936.

CHARACTER and LIMITS OF WORK: This sheet covers that area between Latitude  $39^{\circ} 31.7' N$  and  $39^{\circ} 36.3'$  on the north and from about  $1/3$  mile offshore to well beyond the 20 fathom curve or about  $1\frac{1}{2}$  miles offshore. The inshore limit of the drag was governed by the kelp line and the safe inshore limit of operation of the launches due to swell, etc. This sheet joins Wire Drag Sheet Field No. 4 on the south.

The scale of this sheet is 1 : 10,000.

The position interval was five minutes practically throughout the sheet, except at beginning of lines and radical changes in course and speed.

Dual control and visual fixes were used throughout.

Effective depths ranged from 22 to <sup>77</sup>76 feet.

CONTROL and DATUM: This sheet is on the final adjusted North American 1927 datum. Signals were taken from graphic control sheets BB and CC this vessel 1936, and triangulation of 1929. Shoreline was transferred from photostats of sheets T-4497 and T-4498 of this area.

One signal (SAM) was located by sextant outs which are recorded in drag records done by this party. In this connection none of the topographic features shown were located by this wire drag party and the shoreline and off-lying rocks shown on this sheet should not be used as they are all taken from the above mentioned photostats.

DATES OF SURVEY: Two day's work was done on this sheet, September 5th and 7th, 1936.

TIDAL REDUCERS: Tide reducers for this sheet were obtained from the records of a portable automatic tide gage at Shelter Cove, California. See attached Tidal Data Sheet for further information.

JUNCTIONS and OVERLAPS: This sheet joins with Wire Drag Sheet Field No. 4 on the south. There is no junction on the north due to the closing of the season in Northern California. As A Day this sheet is a continuation of B Day, Sheet No. 4, the junction is good. The overlaps of the drag strips are also good.

GROUNDINGS: There is one grounding on this sheet. A sounding of  $8\frac{1}{4}$  fathoms was obtained and was cleared with a 32 foot drag. It was intended to clear this spot with a 37 foot drag but the spot was missed by about 100 meters with this deeper drag.

Pos.No. Letter Day	Latitude & Longitude	Grounded Eff. Depth	Least Sounding Depth	Cleared Eff. Depth	Depth Plotted	Remarks
	o ' "	feet	fms	feet	fms.	
17B (1b)	39 35.3 123 47.8	55	8 1/6	32	8 1/4	Good sized rock

COMPARISON WITH PREVIOUS SURVEYS and CHART:

There are no soundings shown on either sheets H-4982 and H-4983 or Chart 5602, which are shoaler than the dragged depths. The  $8\frac{1}{4}$  fathom grounding is in depths shown of 17-19 fathoms.

PERSONNEL and LAUNCHES: Lieutenant I. E. Rittenburg was in charge of this work and in charge of the guide launch. Lieutenant W. H. Bainbridge was in charge of the end launch. Chartered Launch VIRGINIA was used as guide launch and Chartered Launch CAPON as end launch. Standard wire drag equipment was used.

Respectfully submitted,

*I. E. Rittenburg*  
I. E. Rittenburg,  
H & G Engineer,  
C. & G. Survey.

Forwarded and approved:

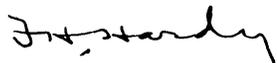
*F. H. Hardy*  
F. H. Hardy,  
Chief of Party, C. & G. S.,  
Commanding Ship GUIDE.

STATEMENT  
to accompany  
WIRE DRAG SHEET FIELD NO. 5  
1936

The plotting and protracting of buoy positions  
was done by Lieutenant (j.g.) Max G. Ricketts.

The drag areas were subdivided and inked by  
Lieutenant (j.g.) Max G. Ricketts and Lieutenant (j.g.)  
Lawrence W. Swanson.

The completed smooth sheet has been inspected  
and is approved.

  
F. H. Hardy,  
Chief of Party, C. & G. S.,  
Commanding Ship GUIDE.

STATISTICS  
to accompany  
WIRE DRAG SHEET FIELD No. 5

Date 1936	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	TENDER	
						Soundings	Positions
Sept.5	A	1	3.6	24	10,000	0	0
7	B	1	4.4	33	10,000	1	1
TOTAL			8.0	57		1	1

AREA 8.0 SQUARE STATUTE MILES.

## TIDE NOTE FOR HYDROGRAPHIC SHEET

Division of Hydrography and Topography:

February 4, 1937

✓ Division of Charts: Att; Mr. E. P. Ellis

Tide Reducers are approved in  
3 volumes of sounding/records for  
wire drag

HYDROGRAPHIC SHEET 6148

Locality Ten Mile River Beach to Bruhels Point, Northern Calif.

Chief of Party: F. H. Hardy in 1936  
Plane of reference is mean lower low water reading  
2.9 ft. on tide staff at Shelter Cove  
7.1 ft. below B.M. 1A

Height of mean high water above plane of reference is 5.6 feet

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents..

Remarks

Decisions

	Remarks	Decisions
1	<i>For Title</i>	
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		

GEOGRAPHIC NAMES

Survey No.

**H6148 W.D.**

Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>California</u>	✓									1
<u>Ten Mile River Beach</u>	✓	✓								2
<u>Kibesillah Rock</u>	✓	✓								3
<del>Newport</del> not app'd for hydro sh.	✓	✓								4
<u>Brubel Pt.</u>	✓	Brubel's			✓		Bruels			5
<u>Ten Mile River</u>	✓	✓	✓				✓			6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
Names underlined in red approved										26
by <u>SHC</u> on 3/22/37										27

Field Records Section (Charts)

H6148 W.D.  
HYDROGRAPHIC SHEET NO. ....

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

Number of positions on sheet	...57...
Number of positions checked	...10...
Number of positions revised	.....
Number of soundings recorded	...1...
Number of soundings revised	.....
Number of signals erroneously plotted or transferred	.....

Date: Feb. 13, 1937

Verification by Harold W. Murray

Time: 5½ hrs.

Review by Harold W. Murray

Time: 4¾ "

HYDROGRAPHIC SURVEY NO. H6148 W. D.

Smooth Sheet Yes

Boat Sheets Two

Sounding Records 3 Vols. \_\_\_\_\_

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) None

Statistics Yes

Approved by Chief of Party Yes

Recoverable Station Cards (Form 524) None

Special Chart for Lighthouse Service None  
(Circular Nov. 30, 1933)

Remarks \_\_\_\_\_

HYDROGRAPHY

Total Days 2 Days

Date Sept 7, 1936

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY }  
 DESCRIPTIVE REPORT } No. H 6148 W.D.  
~~PHOTOSTAT OF~~ } ~~No. T~~

{ received Jan. 16, 1937  
 { registered Jan. 21, 1937  
 { verified  
 { reviewed  
 { approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
83			
88			
90			

RETURN TO

82	C. K. Green ✓
----	---------------

Verification Report, H-6148(1936) W.D.

The verification of this drag sheet was accomplished in connection with the review.

Hawley W. Murray Feb. 12, 1937.

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6148 (1936) W. D. FIELD NO. 5

Ten Mile River Beach to Bruhels Point, Northern Coast, Cal.  
Surveyed in 1936 Scale 1-10,000  
Instructions dated May 31, 1934 (GUIDE) and Letter dated Jan.  
21, 1936 (F. H. Hardy)

Wire Drag and Hand Lead Soundings. Dual Control on Shore Signals.

Chief of Party - F. H. Hardy.  
Surveyed by - I. E. Rittenburg.  
Protracted by - M. G. Ricketts.  
Subdivision of wire dragged areas by - M. G. Ricketts.  
Inked by - M. G. Ricketts.  
Verified by - Harold W. Murray.

1. Condition of Records.

The records are neat, legible and conform to the requirements of the Hydrographic Manual and Special Publication No. 118.

The Descriptive Report is clear and comprehensive and satisfactorily covers all matters of importance.

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey satisfy the instructions for the project except that the 8 1/4 fathom shoal found in lat. 39° 35.3', long. 123° 47.8' should have been cleared by a deeper drag.

3. Shoreline and Signals.

The signals are from 1936 graphic control sheets, Field Nos. BB and CC which have not as yet been received in this office. (See Descriptive Report, page 1). The signals have been supplemented by one hydrographic signal, cuts for which are recorded in Vol. I (pages 8 to 10).

The shoreline and offlying rocks are from photostats of T-4497 (1929) and T-4498 (1929). (See Descriptive Report, page 1).

4. Junction with Contemporary Wire Drag Surveys.

a. The junction on the south with H-6147 (1936) W. D. is satisfactory, the single drag strip continuing from one sheet to the other.

- b. There are no wire drag surveys to the northward of the present survey, this being the limit of the present season's work. (See Descriptive Report, page 2).

5. Comparison with Latest Hydrographic Surveys.

H-4982 (1929), H-4983 (1929), H-4989 (1929), and H-5944 (1935).

The present survey covers portions of the above 1-20,000 and 1-40,000 scale surveys. The effective drag depths are consistent with the depths shown on them.

6. Comparison with Chart No. 5602 (New Print dated Aug. 6, 1936).

Within the area covered, the effective drag depths of the present survey do not conflict with any of the charted depths.

7. Field Plotting.

Field protracting, plotting and subdivision of the various drag strips were well done.

8. Results of Survey.

a. Shoals discovered and clearance depths obtained.

A rock with least depth of  $8 \frac{1}{4}$  fathoms falling in general depths of 18 fathoms, uniform bottom on H-4982 (1929) was found in lat.  $39^{\circ} 35.3'$ , long.  $123^{\circ} 47.8'$ . The rock was cleared with an effective drag depth of 32 feet ( $5 \frac{2}{6}$  fathoms). (See Descriptive Report, page 2).

b. Effective drag depths.

The effective depths of the drag strips in the present survey are sufficient to insure safety to surface navigation in the normal steamer lanes.

c. Splits and insufficient overlaps.

There are no splits on the present survey, the overlaps being very good.

9. Additional Field Work Recommended.

No additional field work is required.

10. Reviewed by - Harold W. Murray.

Feb. 12, 1937.

Inspected by A. L. Shalowitz.

Examined and approved:

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

*L. O. Pollett*  
Chief, Division of Charts.

*Fred. R. Peacock*  
Chief, Section of Field Work.

*W. H. Hall*  
Chief, Division of H. & T.

*applied to drawing of chart 5602 - Apr. 17, 1937 - J.W.*