

6149

WIRE DRAG

U. S. COAST & GEODETIC SURVEY
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JAN 16 1937

6149

WIRE DRAG

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. 7
Hydrographic }

LOCALITY

Northern California Coast
Sea Lion Rock to Usal Rock
~~Rockport north to Latitude 39° 47.5'~~

193 6

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.

WIRE DRAG
~~HYDROGRAPHIC~~ TITLE SHEET

Acc. No.

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. 7

REGISTER NO. H 6149 (W.D.)

State California

General locality Northern California Coast
~~Coast of California~~

Locality Sea Lion Rk. to Usal Rock
~~Rockport north to Latitude 39° 47.5'~~

Scale 1 : 10,000 Date of survey August-September 1936
25 8

Vessel GUIDE

Chief of Party F. H. Hardy

Surveyed by I. E. Rittenburg

Protracted by C. LeFever

Soundings penciled by C. LeFever

Soundings in fathoms feet Wire drag depths in feet

Plane of reference M L L W

Subdivision of wire dragged areas by C. LeFever

Inked by C. LeFever

Verified by

Instructions dated May 31, 1934 & Letter Jan. 21, 1936
Chief, Div. H. & T.

Remarks: Dual Control Wire Drag. Visual fixes using

Chartered Launches VIRGINIA and CAPON

DESCRIPTIVE REPORT
to accompany
WIRE DRAG SHEET FIELD NO. 7
Project No. HT-206
U.S.C. & G.S.S. GUIDE
1936

INSTRUCTIONS: Instructions for this work were dated May 31, 1934 and in 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 the area from Rockport, California, north to Latitude $39^{\circ} 47.5'$ and from about $1/4$ mile offshore to about $1 3/4$ miles offshore, well beyond the 20 fathom curve. The inshore limits of the drag was governed by the safe inshore limit of operating the launches due to swell, off-lying rocks, etc. This sheet joins Wire Drag Sheet Field No. 8 on the north and the drag work of C. K. Green, 1926, Sheet 4588b, in the vicinity of Rockport. The area planned to be wire dragged on Sheet Field No. 6 was not done due to the closing of the northern working season with the result that there is a gap between the southern end of this sheet and the northern limits of Sheet No. 5.

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

The position interval was five minutes practically throughout the sheet, except at the beginning of the line and radical changes in course and speed. Dual control and visual fixes were used throughout.

Effective depths range from 25 to 75 feet.

CONTROL and DATUM: This sheet is on the final adjusted North American 1927 datum. Signals were from graphic control Sheet CC 1936 and topographic sheets field letters A and B 1935 of this vessel. The shoreline was from a photostat of Sheet T-4496 and topographic sheets A and B of this vessel. No topographic features were taken from the wire drag sheets or located by the wire drag party.

DATES OF SURVEY: Two day's work was done on this sheet, August 25 and September 8, 1936.

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

JUNCTIONS and OVERLAPS: This sheet joins Sheet Field No. 8 on the north and Sheet, Wire Drag, No. 4588b, 1926 C. K. Green, on the south in the vicinity of Rockport. The junction with Sheet No. 8 is good as the drag strip continues on to A Day, Sheet 8. The junction with Sheet 4488b is also good. Overlaps of drag strips also satisfy requirements.

GROUNDINGS: There is one grounding shown on this sheet with a sounding obtained of 19 feet at Position 16 B Day. As this rock was close inshore and a short distance from other four fathom soundings it was not cleared.

Pos.No. Letter Day	Latitude & Longitude	Grounded Eff. Depth	Least Sounding Depth	Cleared Eff. Depth	Depth Plotted fms.
	o ' "	feet	feet		
16B	39 45.3 123 50.6	26	19	not cleared	3 1/6

COMPARISON WITH PREVIOUS SURVEYS and CHART:

There are no soundings shown on either sheets 4982, 5920, and Wire Drag 4588b or on Chart 5602, which are shoaler than the dragged depths.

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. Charted 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:

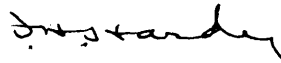
F. H. Hardy
F. H. Hardy,
Chief of Party, C. & G. S.,
Commanding Ship GUIDE.

STATEMENT
to accompany
WIRE DRAG SHEET FIELD No. 7
1936

The plotting and protracting of buoy positions
was done by Lieutenant (j.g.) Curtis LeFever.

The drag areas were subdivided and inked by
Lieutenant (j.g.) Curtis LeFever.

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. 7
1936

Date 1936	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	TENDER Soundings	Positions
Aug.25	A	1	1.7	12	10,000	0	0
Sept.8	B	1	4.7	34	10,000	1	1
TOTALS			6.4	46		1	1

AREA 5.4 SQUARE STATUTE MILES.

Remarks

Decisions

	Remarks	Decisions
1		
2		see T-6377
3		" "
4		see T-4209
5		" "
6		" "
7		" "
8		" "
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GEOGRAPHIC NAMES

Survey No. **H6149** W.D.

Name on Survey	Source											
	A	B	C	D	E	F	G	H	K			
<u>california</u>	✓											1
<u>Usal Rock</u>	✓ app'd											2
<u>Williams Pt</u>	✓ app'd											3
<u>Cottaneva Needle</u>	✓ app'd											4
<u>Sea Lion Rock</u>	✓ app'd											5
<u>Cape Vizcaino</u>	✓ app'd											6
<u>Cottaneva Rock</u>	✓ app'd											7
<u>Rockport</u>	✓ app'd											8
												9
												10
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Names underlined in red approved											26	
by <u>YHR</u> on <u>3/5/37</u>											27	

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
 DESCRIPTIVE REPORT
~~PHOTOSTAT OF~~

} No. H 6149 W.D.
 } ~~No. 1~~

{ 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			
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62			
63			
82			
83			
88			
90			

RETURN TO

82	C. K. Green
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✓

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 4, 1937

Division of Hydrography and Topography:

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

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

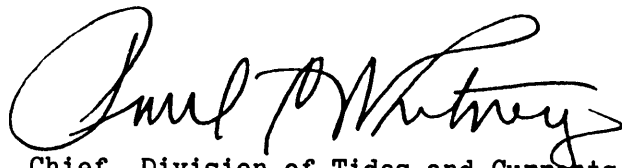
HYDROGRAPHIC SHEET 6149

Locality Sea Lion Rock to Usal Rock, 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..

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H6149** W.D.

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

Number of positions on sheet 46
Number of positions checked 15
Number of positions revised 0
Number of soundings recorded 1
Number of soundings revised 0
Number of signals erroneously plotted or transferred <u> </u>

Date: **Feb. 12, 1937**

Verification by } **R. G. Christman** Time: **14 hours**

Review by } Time:

HYDROGRAPHIC SURVEY NO. H6149 W. D.

Smooth Sheet Yes

Boat Sheet Two

Sounding Records 3 Vols. _____

Descriptive Report Yes

Title Sheet Yes

List of Signals Yes

Landmarks for Charts (Form 567) Yes

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

Last Date Sept 8, 1936

Verification Report on H-6149 (1936) WZ
Field No 7.

Verification of this sheet was accomplished
in connection with the Review of the sheet.

No special comments other than those
contained in the Review are considered
necessary.

Feb. 12, 1937

R. J. Christman

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6149 (1935) W. D. FIELD NO. 7

Sea Lion Rock to Usal Rock, Northern California Coast, Cal.
Surveyed Aug.-Sept. 1936, scale 1-10,000
Instructions dated May 31, 1934 and Jan. 21, 1936 (GUIDE)

Wire Drag, Hand Lead Sounding. Dual Control on Shore Signals.

Chief of Party - F. H. Hardy.
Surveyed by - I. E. Rittenburg.
Protracted by - C. LeFever.
Subdivision of Wire Dragged area - C. LeFever.
Inked by - C. LeFever. Verified by - R. J. Christman.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual and to S. P. 118.

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

2. Compliance with Instructions for the Project.

The plan, character and extent of the survey comply with the instructions for the project.

3. Shoreline and Signals.

The shoreline and topographic signals originate with plane table surveys T-4496 (1929), T-6377 (1935), T-6378 (1935) and T-Field No. CC (1936) Graphic Control survey not yet received in office. The hydrographic signal originates with H-5920 (1935).

4. Junctions with Wire Drag Surveys.

- a. The junction with H-Field No. 8 (1936) on the north will be considered in the review of that sheet.
- b. The junction with the work on H-4588b (1926) at the south-east is satisfactory.
- c. Drag work was not continued to the southward due to the closing of the field season.

5. Comparison with Latest Hydrographic Surveys.

H-4982 (1929), H-5920 (1935), H-5944 (1935).

The present survey covers portions of the above hydrographic surveys and the effective drag depths are consistent with depths shown on them.

6. Comparison with Chart 5602 (New Print dated Aug. 6, 1936).

a. Hydrography.

None of the soundings shown on the chart conflict with the effective depths of the drag.

b. Aids to Navigation.

No aids to navigation are charted within the area of the present survey.

7. Field Plotting.

The plotting, protracting and subdivision of dragged areas are satisfactory.

8. Results of Survey.

a. Shoals Discovered and Clearance Depth Obtained.

The 3 1/6 fathom rock in lat. 39° 45.27', long. 123° 50.57', was the only grounding obtained in the area of the present survey. It falls in depths of 6 to 8 fathoms of water on the contemporary hydrographic survey (H-5920 of 1935) but was not cleared as it falls on the inshore edge of the drag strip, a short distance from 4 fathom depths. (See Groundings Descriptive Report, page 2).

b. Effective Depths.

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

c. Splits and Insufficient Overlaps.

The work is a single wide strip in a north-south direction and the overlaps of the different sections of the strip are ample so that no split resulted.

9. Additional Field Work Recommended.

No additional field work is necessary.

10. Reviewed by R. J. Christman,

Feb. 12, 1937.

Inspected by A. L. Shalowitz.

Examined and approved:

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

L. O. Gilbert.
Chief, Division of Charts.

Fred. L. Peacock
Chief, Section of Field Work.

H. H. H.
Chief, Division of H. & T.

Applied to drawing of Chart 5602 - am. 17, 1937 - J.A.W.