

# 6289

WIRE DRAG

5502-7

Form 504 Rev. April 1935 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
WIRE DRAG <del>Topographic</del> <del>Hydrographic</del>	Sheet No. 10
State <u>California</u>	
LOCALITY <u>Northern</u> <u>North Coast of California Coast</u> <u>Vicinity</u> <u>Between Point Reyes and Tomales</u>	
<u>Point</u>	
193 7	
CHIEF OF PARTY	
<u>F. H. Hardy</u>	

U. S. GOVERNMENT PRINTING OFFICE

6289 WIRE DRAG

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

U. S. COAST & GEODETIC SURVEY  
LIBRARY AND ARCHIVES

APR 22 1938

REG. NO.

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. 10.

REGISTER NO. H6289 W.D.

State California

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

Locality Between Point Reyes and Tomales Point Vicinity  
~~Between~~

Scale 1:10,000 Date of survey December 8., 1937

Vessel GUIDE

Chief of Party F. H. Hardy

Surveyed by Charles Shaw

Protracted by Harry F. Garber

Soundings penciled by \_\_\_\_\_

Soundings in fathoms feet Drag Depths in feet.

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by Harry F. Garber

Inked by Harry F. Garber

Verified by J. A. Mc Cormick  
May 2, 1935, Project HT-206 and

Instructions dated March 6, 1937, 19\_\_\_\_

Remarks: Dual Control-Visual Fixes-using Chartered launches

FLORENCE (guide launch), VIRGINIA I (end launch) and No. 28 A 889  
(tender)

DESCRIPTIVE REPORT  
to accompany  
WIRE DRAG SHEET FIELD NO. 10  
Project No. HT-206  
Coast of California  
U.S.C. & G.S.S. GUIDE  
1937

INSTRUCTIONS:

Instructions for Project HT-206 were dated May 2, 1935. Supplemental Instructions for this work were dated March 6, 1937.

LIMITS OF WORK:

The dragging on this sheet is from about 2 3/4 miles north of Point Reyes to about 7 1/2 miles north of Point Reyes which latter locality is abreast of Abbott's Lagoon.

The dragged area covered extends from about the 27 or 28 fathom curves, 1 3/4 to 1 1/2 miles offshore, to within 1/3 mile from the shore. The inshore limit was slightly outside the generalized foul area line, but as close as practicable bearing in mind the attendant dangers in drag launch operations due to swell, etc.

This sheet continues from the south on Sheet No. 23 and proceeds northward on to Sheet No. 9 without a break.

CHARACTER OF WORK:

The scale of the projection is 1:10,000. Dual control by sextant angle fixes was used with usual position interval of 5 minutes except where 2 1/2 minute intervals were used for closer control in getting toward the shore.

Drag tests were made as often as appeared necessary, and were made twice while dragging on this sheet and once immediately after continuing on the advance sheet.

Drag speed was maintained as far as practicable at not over 1 1/2 miles per hour to minimize or eliminate lift. Effective drag depths ranged from 44 to 88 feet. Standard wire drag equipment was used.

DATUM AND CONTROL:

This sheet is on the adjusted North American 1927 datum. Triangulation stations were located in 1921 and 1929. Topographic signals are from T-4639 bromide and from topographic field sheets "G" 1937 and "H" 1937-38, Ship GUIDE. All shoreline, etc. were transferred from the bromide of T-4639 and none of the topographic features were located by the 1937 or 1938 field party.

DATE OF SURVEY:

Wire drag work on this sheet was done on December 8, 1937. All work was done by the chartered launches.

TIDAL REDUCERS:

Tidal reducers for this sheet were taken from the records of the standard automatic tide gage at San Francisco maintained by the San Francisco Field Station. See attached Tidal Data Sheet for further tidal information.

JUNCTIONS AND OVERLAPS:

This sheet is a continuation of the dragging done on a single day from Sheet No. 23, and continued on Sheet No. 9, all uninterrupted.  
H-6249

GROUNDINGS:

There are no groundings on this sheet, and there are no splits.

COMPARISON WITH PREVIOUS SURVEYS AND CHARTS:

There are no soundings on hydrographic sheets H-5164 and H-5169 nor on Chart 5502 within this area dragged that are shoaler than the dragged depths shown on this sheet.

PERSONNEL AND LAUNCHES:

Lieutenant-Commander Charles Shaw was in charge of this work and in charge of the guide launch. Lieutenant (j.g.) Walter J. Chovan was in charge of the end launch.

Chartered launches FLORENCE and VIRGINIA I were used as guide and end launches, respectively. Chartered Launch No. 28 A 889 was used as tender.

Respectfully submitted,

*Charles Shaw*

Charles Shaw,  
H & G Engineer,  
C. & G. Survey.

Approved, forwarded:

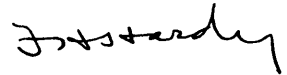
*F. H. Hardy*  
F. H. Hardy,  
Chief of Party, C. & G. S.,  
Commanding Ship GUIDE.

STATEMENT  
to accompany  
WIRE DRAG SHEET FIELD NO. 10  
1937

The plotting and protracting of buoy positions was done by  
Lieutenant (j.g.) Harry F. Garber.

The drag areas were subdivided and inked by Lieutenant (j.g.)  
Harry F. Garber. ✓

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. 10  
1937  
U.S.C. & G.S.S. GUIDE

Date	Day Letter	Volume	Statute Miles	Positions	Drag Length Feet	Tender Soundings
12-8-37	A	1	6.0	86	10,000	0

## 1937

TRIANGULATION

Hydrographic Name

### Description

STA

Pr.Reyes R.C. Station, 1921

## TOPOGRAPHIC

AM

" " H. 1937-38

## TIDE NOTE FOR HYDROGRAPHIC SHEET

July 16, 1938

Division of Hydrography and Topography:

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

**Plane of reference**

~~Tide Reducers are~~ approved in  
3 volumes of sounding records for

HYDROGRAPHIC SHEET 6289 W D

Locality Point Reyes and vicinity, Northern California Coast.

Chief of Party: F. H. Hardy in 1937

Plane of reference is mean lower low water reading

5.6 ft. on tide staff at Presidio

10.3 ft. below B.M. 165

The time used is 45 minutes earlier than San Francisco, with the range the same.

Height of mean high water above plane of reference is 5.1 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.



# GEOGRAPHIC NAMES

Survey No. **H6289** W.D.

On Chart  
No. **5502**

On previous survey  
No. **7-882**

On U. S. quadrangle  
Maps

From local  
information

On local Maps

P. O. Guide or Map

Rand McNally Atlas

U. S. Light List

Name on Survey

	A	B	C	D	E	F	G	H	K	
<u>Point Reyes</u>	✓		(For Title Only)							1
<u>Abbott's Lagoon</u>	✓	✓	✓							2
										3
										4
										5
										6
										7
										8
<u>Names Referred to in Report for Control Sheet</u>										9
<u>Estero de</u> \$ <u>Limantour</u>										10
<u>Point Reyes</u>										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
Names underlined in red approved										26
by <u>GHE</u> on <u>5/19/38</u>										27

## Remarks

## Decisions

1	<i>off limit of sheet Lat 38-00; Long. 123-01</i>	<i>see H-6249</i>
2		<i>out apostrophe</i>
3		
4		
5		
6		
7		
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10		<i>see H-6249</i>
11		<i>" "</i>
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27		
M 234		

Field Records Section (Charts)

HYDROGRAPHIC SHEET NO. **H.6289** W. D.

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

Number of positions on sheet	... <b>76</b> ..
Number of positions checked	... <b>4</b> ..
Number of positions revised	... <b>0</b> ..
Number of soundings recorded	... <b>0</b> ..
Number of soundings revised	... <b>0</b> ..
Number of signals erroneously plotted or transferred	... <b>0</b> ..

Date: *Aug. 10, 1938.*

Verification by *J. A. Mc Cormick*

Time: *4 hr.*

Review by *J. A. Mc Cormick*

Time: *3 hr.*

H6289 W. D.

HYDROGRAPHIC SURVEY NO. \_\_\_\_\_

Smooth Sheet Yes

Boat Sheet Two

Records; Sounding One Vols., Wire Drag Two Vols., Bomb      Vols.

Descriptive Report Yes

Title Sheet Yes

List of Signals In D. R.

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)

Hydrography: Total Days One ; Last Date Dec. 8, 1937

Remarks \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# MEMORANDUM

## IMMEDIATE ATTENTION

SURVEY  
DESCRIPTIVE REPORT  
~~PHOTOSTAT OF~~

No. H -6289 W.D.

~~NOT~~

{ received April 22, 1938  
registered May 3, 1938  
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	T. B. Reed
----	------------

✓ JBR

CONTROL SHEET  
TO ACCOMPANY H

6289

U. S. COAST & GEODETIC SURVEY  
LIBRARY  
MAY 9 1938  
WIRE DRAG  
Acc. No. \_\_\_\_\_

CONTROL SHEET  
TO ACCOMPANY H  
6289  
WIRE DRAG

Form 504 Rev. April 1935 DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
TOPOGRAPHIC <del>Hydrographic</del> <del>Hydrographic</del>	Sheet No. H-37-38
State California	
LOCALITY	
Tomaes Point	
Latitude 38° 05' to	
Latitude 38° 12'.	
1937-38	
CHIEF OF PARTY	
F. H. Hardy	

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO.

## TOPOGRAPHIC TITLE SHEET

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

Field Letter H-37-38

REGISTER NO.

State CaliforniaGeneral locality Tomales PointLocality Latitude 38° 05' to Latitude 38° 12'.Scale 1:10,000 Date of survey November 1937  
April, 1938Vessel GUIDEChief of Party F. H. Hardy  
~~xxx@xxx@xxx@xxx~~Surveyed by H. G. ConerlyInked by H. G. ConerlyHeights in feet above -- to ground to tops of treesContour Approximate contour Form line interval -- feetInstructions dated May 31,, 1934Remarks: For graphic control of wire drag in vicinity.

DESCRIPTIVE REPORT  
to accompany  
TOPOGRAPHIC SHEET FIELD NO. H-37

DATE OF INSTRUCTIONS: May 31, 1934.

PROJECT: H.T. 206.

PURPOSE OF SURVEY: To locate signals for the wire drag operations in the vicinity.

LIMITS: This sheet covers the area on the west side of Tomales Point from Latitude  $38^{\circ} 05'$  to Latitude  $38^{\circ} 12'$ .

GENERAL DESCRIPTION OF COAST: The area in general from the south end of the sheet to Topographic Station AM is large sand dunes along the coast from fifty feet high to approximately 250 feet high. The dunes are covered with grass and from offshore do not look much like sand dunes. From Station AM north the land begins to be rocky with high bluffs very near the high water line and rocky offshore.

There are no trees on the hills near the coast but a single tree here and there in the farms inshore.

METHODS: Standard topographic methods for traverses and intersections were used throughout. Several of the signals of the previous survey were found and redressed.

Stations AM, HILL, and POD were located on this sheet.

Station HILL was located by a cut from Triangulation Station ADAMS 1929, a cut and a rod reading from Set Up No. 1. A check was obtained by a resection of Topographic Station EBA located on T-4639. Station AM was located by a traverse from Station HILL and a cut from Set Up No. 2 near Topographic Station GOO, located in 1931. Station POD was located by a direction and a rod reading from Triangulation Station TOMALES BAY 1855-1906 and a cut from a set up near Station GOO.

Topographic Station SAL was supposed to have been described and marked. The description was followed, a disk found stamped "SAL" and a whitewash put on the spot. When the drag work was done trouble was experienced when using it. It was thought that the wrong signal had been marked and described. A cut was taken from Station AM and a cut from



Set Up No. 2 near G00. They both went through the point for Station TIM as is on previous sheets. The previous description of SAL should be discarded. The description given for SAL in 1931 fits very good for a description of TIM. \* See below.

Respectfully submitted,

*H. G. Conerly*  
H. G. Conerly,  
Aid,  
U.S.C. & G. Survey.

Approved, forwarded:

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

\* Because the disc was stamped "Sal", that name has been retained on the card description. The d.m.'s and d.p.'s have been changed on the card, however to agree with those for station "Tim".

*J. A. McCormick*

A note was also placed on the description card explaining the discrepancy in names.  
*JBR*

Section of Field Records

REVIEW OF HYDROGRAPHIC SURVEY NO. 6289 (1937) W.D. FIELD NO. 10

Point Reyes and Vicinity, Northern California Coast  
California.

Surveyed in December 1937, Scale 1:10,000

Instructions dated May 2, 1935 and March 6, 1937 (GUIDE)

Wire Drag.

Dual control on shore signals.

Chief of Party - F. H. Hardy.

Surveyed by - Charles Shaw.

Protracted by - H. F. Garber.

Subdivision of wire dragged areas by - H. F. Garber.

Inked by - H. F. Garber.

1. Condition of Records.

The records are neat and legible and conform to the requirements of the Hydrographic Manual and of Special Publication 118.

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

2. Compliance with Instructions for the Project.

The survey satisfies the instructions for the project.

3. Shoreline and Signals.

a. Shoreline on this survey originates with T-4639 (1931).

b. Topographic signals originate with control sheets filed with the present survey and with H-6250 (1937) W.D.

4. Junctions with Wire Drag Surveys.

a. The junction with H-6249 (1937) W. D. on the south is satisfactory.

b. The junction with the survey on the north will be considered in the review of that survey when the sheet is received from the field.

5. Comparison with Latest Hydrographic Surveys.

H-5164 (1931), 1:20,000; H-5169 (1931-32), 1:40,000.

There are no conflicts between the effective drag depths on the present survey and soundings on the above surveys.

6. Comparison with Chart 5502 (New Print dated May 11, 1938).

The chart contains no soundings which conflict with the effective drag depths.

7. Field Plotting.

The plotting, protracting and subdivision of dragged areas was excellent.

8. Results of Survey.

a. Shoals discovered and clearance depths obtained.

There were no groundings on the survey.

b. Effective depths.

The effective depths of the drag strip are sufficient to insure safety to surface navigation to within 1/2 mile of the beach.

c. Splits and insufficient overlaps.

The survey consisting of a single wide strip, splits and insufficient overlap cannot exist.

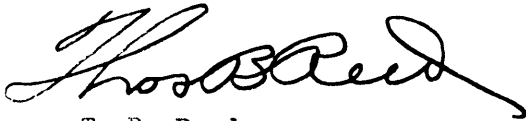
9. Additional Field Work Recommended.

No additional work is required.

10. Verified and reviewed by - J. A. McCormick, Aug. 10, 1938.

Inspected by - E. P. Ellis.

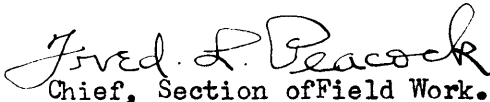
Examined and approved:



T. B. Reed,  
Chief, Section of Field Records.



Chief, Division of Charts.



Chief, Section of Field Work.



Chief, Division of H. & T.

Applied to C. Prof. Chit. 5599 10/5/39 Chas O. Budy  
No correction for Chit 5603 6/23/41 H. MacEwen