

4518

Form 501  
Ed. June, 1928

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

R. S. Patton, Director

State: California

DESCRIPTIVE REPORT

Topographic  
Hydrographic

Sheet No.

4518

LOCALITY

Drakes Bay

East of Drakes Bay

1929

CHIEF OF PARTY

O. W. Swainson

D E S C R I P T I V E      R E P O R T

To Accompany Topographic Sheet No. C

California Coast      Drakes Bay

O.W. Swainson, H. & C. Eng.      Chief of Party

1929

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4518

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 No. C

REGISTER NO. 4518

State California.

General locality Drake's Bay

Locality East of Drake's Estero. ✓

Scale 1:10,000 Date of survey June, 192 9

Vessel U.S.C. & G.S.S. PIONEER.

Chief of Party O. W. Swainson, H. & G. Engr.

Surveyed by John A. Bond, H. & G. Engr.

Inked by John A. Bond, H. & G. Engr.

Heights in feet above M.H.W. to ground to ~~tops of trees~~

Contour, Approximate contour, Form line interval        feet

Instructions dated April 9, 1929., 192

Remarks: For additional later description of coast

see descriptive report for control sheet accompanying

GPO

H-6250 (1937). W.D.

# DESCRIPTIVE REPORT

To Accompany Topographic Sheet C

## Instructions

The topography on this sheet was executed under instructions to the Commanding Officer, Steamer PIONEER, dated April 9, 1929.

## Limits and Scale

The topography included on the sheet, surveyed on a scale of 1 to 10,000, covers the shore line of the central part of Drakes Bay between longitudes  $122^{\circ} 49'$  and  $122^{\circ} 54'$  approximately. It is joined on the west by sheet B and on the east by sheet D, both of this season's work.

## Control and Survey Methods

The usual survey methods were used. Control points were established by supplementary triangulation at intervals of about one mile along the coast. Between these points traverse closures were easily kept within the allowable error and adjusted on the sheet. Offlying rocks were located by at least three intersecting cuts.

## General Description of Topographic Features

The shore line from the western extremity of the sheet as far east as longitude  $122^{\circ} 52'$  is flat and sandy, marked with numerous small, grass-covered dunes. East of this a low bluff, about 15 feet in height, extends for about a third of a mile. In the vicinity of station Bill a dirt bluff rises about 125 feet and extends to the eastern limits of the sheet. In front of station Bill a rocky ledge covers at high water. Against the bluff to the west of station Bill sand has drifted to form a large, prominent dune. Back of the shore line the hills are grass covered with brush and small trees in the ravines as indicated on the original topographic sheet.

The road shown paralleling the beach is a wagon trail, probably impassable in wet weather.

## Comparison with Previous Surveys

The area was originally surveyed in 1859 on sheets 805 and 806, scale 1 to 10,000.

In comparison with the present survey the following changes are noted:

On the original survey the storm high water line was shown instead of the mean high water line.

The lake just east of station Mud was originally shown as having an opening to the bay. It is now completely surrounded by land and used for duck hunting. Tall grass grows along the shore outside the high water line.

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The ledge  $\frac{1}{4}$  mile southeast of station Bill is shown on sheet 806 as detached rocks. This formation is connected with the shore at low water and should be shown as a ledge.

Midway between stations Bill and Bear a group of rocks awash has been located which was not shown on sheet 806.

The point at station Bear takes a different shape from that shown on the original sheet. Signs of erosion are plainly visible.

One third of a mile east of station Bear a group of ranch houses not shown on sheet 806 has been located.

Rock formation is shown on sheet 806 at the low water line about 650 meters northwest of station Glen. This area was examined and nothing found other than straight sand beach.

The group of rocks awash off station Glen is not shown on the original survey.

The locations of streams were found in all cases to agree with sheet 806 and were therefor not resurveyed beyond their mouths.

Contours and elevations shown in pencil on the sheet were transferred from sheet 806. They were checked in the field and found to be exceptionally accurate.

#### Landmarks

The only landmark of value on the sheet is the large barn  $\frac{1}{3}$  mile east of station Bear. This is a low, white structure, visible for a considerable distance off shore. The position of the center of the southwest face is as follows:

Latitude  $37^{\circ} 59' 315$  meters  
Longitude  $122^{\circ} 49' 1621$  meters.

*John A. Bond*  
John A. Bond  
Lieut. U.S.C. & G. Survey

Approved:

*O. W. Swainson*  
O. W. Swainson  
Commanding Str. PIONEER.

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