4524

Form 504
Ed. June, 1928

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

State: California

DESCRIPTIVE REPORT

Topographic | ~~Hydrographic~~ | Sheet No. J 4524

LOCALITY

Pillar Pt.

Half Moon Bay to Pt. San Pedro.

1929

CHIEF OF PARTY

O. W. Swainson

U. S. GOVERNMENT PRINTING OFFICE: 1928

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

To Accompany Topographic Sheet No. J 4524

California Coast - Point San Pedro to Half Moon Bay

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

1929

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

To Accompany Topographic Sheet J.

Instructions

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

Limits and Scale

The topography on this sheet, surveyed on a scale of 1 to 10,000, covers the shore line from Point San Pedro to Half Moon Bay. It is joined on the North by sheet H of this season's work. Sheet J comprises the southern limits of the topography executed this season by the Steamer PIONEER.

Control and Survey Methods

The usual survey methods were used. Control points along the shore were established by supplementary triangulation. Traverse was run between these points, the closing error of which was kept below the allowable limit and adjusted on the sheet. Off-lying rocks were located by at least three intersecting cuts and the limits of the larger rocks located by tangents.

General Description of Topographic Features

From Point San Pedro, high dirt cliffs, bordered by wide sand beach, extend south for about two miles, gradually diminishing in height until in the vicinity of Montara it becomes little more than an embankment about 15 feet high. South of Montara the cliff rises gradually to Pillar Point where it attains a height of about 100 feet. East of Pillar Point the cliff gives way to broad sand beach bordered by flat grassy land. In the vicinity of station Lone Tree a 20 foot embankment extends for a short distance. Montara Point is marked by a low rocky ledge skirted by many off-lying boulders and rocks awash. From Montara Point to Pillar Point extensive rocky ledges project for a considerable distance off shore. At Princeton are shown two substantial docks used by local fishermen. The dock in the vicinity of signal Well is in a poor state of repair and at present unused.

Back of the shore line the land is grassy, with brush and small trees in the ravines as shown on the original sheets.

Comparison with Previous Surveys

The area was originally surveyed on sheets 1019 and 933, on a scale of 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.

Off the western extremity of San Pedro Rock are a group of rocks awash which are not shown on the original sheet.

In the bight south of San Pedro Point, several rocks awash are shown in the present survey which are not included on the original sheet.

At Montara Point the Navy Radio Compass Station has been located by triangulation.

One-half mile S E from the compass station, the original sheet shows a group of sunken rocks. These have been replaced on the present survey by two rocks awash and two sunken rocks, the latter being indicated by conspicuous breakers.

No indication of the sunken rocks shown on sheet 1019 off hydrographic signal Wood was noted in the field at low water. See review H4978

The detail in the vicinity of Sail Rock, south of Pillar Point, is poorly shown on sheet 993. The area of Sail Rock bare at high water is considerably smaller than shown on the original sheet and is connected with the mainland at low water by a bare ledge.

The small dock shown on sheet 993 on the east side of Pillar Point no longer exists.

The two docks at Princeton are not shown on the original survey.

The road shown on the present survey extending from Montara to the southern limits of the sheet was accurately surveyed and is the only one in the vicinity worth charting.

The form lines shown on the sheet were transferred from the original survey and checked in the field. They were found to be exceptionally accurate.

Landmarks

A list of landmarks included in the area covered by this sheet have been fowarded with the descriptive report of the hydrography in this vicinity.

Accompanying Maps

There is forwarded with the sheet a San Mateo County Map showing the present location of county highways. The county map forwarded with sheet H shows a portion of this highway which falls within the limits of sheet J. A third map of San Mateo county, covering the area south of that surveyed this year, is forwarded for the office records.

John A. Bond
John A. Bond,
H. &. G. Engineer.
U. S. C. & G. Survey.

Approved and forwarded:

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

Titled

Form 537a
11—5813

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 4524

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. J

REGISTER NO. 4524

State California.

General locality ~~Pacific Ocean.~~ Pillar Pt

Locality ~~Point San Pedro to~~ Half Moon Bay to Pt. San Pedro

Scale 1:10,000 Date of survey October, 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 MW/~~R.W.~~ to ground to ~~tops of trees~~

Contour, Approximate contour, Form line interval feet

Instructions dated April 9, 1929, 192

Remarks:

GPO