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

State: CALIFORNIA

DESCRIPTIVE REPORT
Topographic Sheet No. 7

LOCALITY
Central California Coast
Point Sal North
Oso Flaco River & Vicinity

1934

CHIEF OF PARTY
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 J

REGISTER NO. 6272

State California
General locality Point Sal North (approximate)
Locality Oso Flaco River & Vicinity
Scale 1:10,000 Date of survey July 1934
Vessel U.S.C. & S.S. PIONEER
Chief of Party O. W. Swainson
Surveyed by Harold Clarke
Inked by Harold Clarke
Heights in feet above NAV to ground tops of trees
Contour approximate contour Form line interval 100 feet
Instructions dated November 18, 1932 19
Remarks:
DESCRIPTIVE REPORT

TO ACCOMPANY TOPOGRAPHIC SHEET NO. J.

California Coast,
Point Sal North (Oso Flaco River)
Latitude 35° 01' to 35° 04'.

AUTHORITY

This work was done in accordance with instructions dated November 18, 1932, to the Commanding Officer of the PIONEER for Project No. 120, and also those dated April 4, 1932, to the Commanding Officer of the GUIDE, Project No. 101. Work was done during the month of July, 1934.

CONTROL

The control was established by taking cuts on and occupying triangulation points located previously by F. G. Johnson and Chas. Pierce in 1933 at an approximate maximum distance of two miles along the coast line. Traverses were run between these stations with the following errors of closure:

- Oso Flaco 2, 1933, to Boca, 1933 - Flat.
- Boca, 1933 to Redwood, 1933 - Flat for orientation, 9 meters long in distance.
- Bromela, 1933 to Black, 1933 - Flat.

GENERAL DESCRIPTION

This section is characterized by an undulating high water line on a flat beach with a narrow stretch of low grassy dunes just back of it, followed by bare sand of gradually increasing elevation up to the higher backed dunes. The lakes and marshes at the Oso Flaco River and the broad valley under cultivation back of the high dunes, as well as the Lakes near Black, 1933, are noteworthy.

The sand beach is increasingly flat from the south to north end of the sheet and in generally of fine sand.

The high brushy dunes at the southerly end of the sheet extend from Oso Flaco 2, 1933, about a mile in a more easterly direction ending there at the Oso Flaco River Valley. Between these high dunes and the low grassy dunes parallelizing the shore is a broad stretch of bare sand gradually rising from the low dunes (25' elevation approximately) to the high dunes (100 to 150 feet elevation approximately). With the exception of the Oso Flaco River and Lake breaking through just north of Boca, 1933, these dunes continue to Redwood, 1933, and Black, 1933, in nearly the same character.

The north end of the Oso Flaco Valley is just south of Dune 2, 1933, and Bromela, 1933, and is approximately a mile in width. The Oso Flaco River is in the northern portion of the valley, culminating in a large
lake and then winding through low bare dunes to its outlet into the ocean.

The Southern Pacific Railroad main line between Los Angeles and San Francisco runs just east of△Bromela, 1933, and△Black, 1933. . . . Near △Black, 1933, the railroad and highway travel over a broad fill separating Laguna Negra from Black Lake. Just east of△Black, 1933, is one of the lakes belonging to Dune Lakes, Incorporated, Lud Lake. The elevation of the water in this lake is controlled by pumps and interconnecting pipe lines with the other lakes (see Topographic Sheet K)

CONTOURS

The contours were checked by numerous elevations and by inspection. Unless inked in red on the new sheet, they are the same as shown on original survey.

CHANGES IN COAST LINE

The high water line as compared with the old topographic sheet lies about 90 meters offshore at△Oso Flaco, 1933. It decreases more or less uniformly to about 15 meters offshore at△Redwood, 1933.

The easterly movement of the dunes has changed both the channel of the Oso Flaco River and the Oso Flaco Lake, with the outlet maintaining relatively the same position.

The Southern Pacific Railroad main line, between San Francisco and Los Angeles has been added.

As this is a complete new survey the old survey should be disregarded entirely except the contours.

STATISTICS

Shore line 4.0 statute miles.
Lakes and sloughs 10.7 statute miles.
Railroad 2.0 statute miles.
Highway and roads 1.5 statute miles.

Harold Clarke,
Topographer.

Forwarded:

O. W. Swainson,
Chief of Party,
Commanding PIONEER.
OIL DERRICK

This derrick, 125 feet high, stands out above all surrounding land and the tops of trees, is the only derrick in this vicinity, is visible from all directions and should be charted.
GEOGRAPHIC NAMES

Sheet J.

The following should be added to the Charts:

Oso Flaco Lake (not named on the chart).
<table>
<thead>
<tr>
<th>Position</th>
<th>Angle</th>
<th>Distance</th>
<th>Elevation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Derrick</td>
<td>35° 02'</td>
<td>1278 m.</td>
<td>857</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Barn Cable</td>
<td>35</td>
<td>01</td>
<td>1085</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>37</td>
<td>287</td>
</tr>
<tr>
<td>Windmill</td>
<td>35</td>
<td>01</td>
<td>1696</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>36</td>
<td>1136</td>
</tr>
<tr>
<td>Block Signal #2711</td>
<td>35</td>
<td>02</td>
<td>189</td>
</tr>
<tr>
<td></td>
<td>120</td>
<td>35</td>
<td>852</td>
</tr>
<tr>
<td>Block Signal #2712</td>
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<td>02</td>
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<td>120</td>
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<td>Block Signal #2707</td>
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<td>936</td>
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<td>888</td>
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<td>944</td>
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<tr>
<td>Block Signal #2697</td>
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<td>03</td>
<td>683</td>
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<td>120</td>
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<td>1122</td>
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<td>03</td>
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<td>1128</td>
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<td>120</td>
<td>35</td>
<td>1200</td>
</tr>
</tbody>
</table>
The following determined objects are prominent, can be readily distinguished from seaward from the description given below, and should be charted.

O. W. Swainson, Chief of Party.

<table>
<thead>
<tr>
<th>Topo Sheet J</th>
<th>DESCRIPTION</th>
<th>POSITION</th>
<th>METHOD OF DETERMINATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OIL DERRICK</td>
<td>247</td>
<td>35 02 1276 120 35 857</td>
<td>1927 Topo</td>
</tr>
</tbody>
</table>

A list of objects which are of sufficient prominence for use on the charts, together with a description of the same, must be furnished in a special report on this form, and a copy of such report must be attached by the Chief of Party to his descriptive report. The selection, determination, and description of these points are of primary importance.

The description of each object should be short, but such as will identify it; for example, standpipe, water tower, church spire, tank, tall stack, red chimney, radio mast, etc. Generally, flagstaffs and like objects are not sufficiently permanent to chart.
GEOGRAPHIC NAMES

CALIFORNIA

Date: May 7, 1935

Survey No. T6272

Chart No. 3302

Diagram No. 3302-2

Approved by the Division of Geographic Names, Department of Interior. *

Referred to the Division of Geographic Names, Department of Interior. R

Under investigation. Q

<table>
<thead>
<tr>
<th>Status</th>
<th>Name on Survey</th>
<th>Name on Chart</th>
<th>New Names in local use</th>
<th>Names assigned by Field</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Mud Lake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Black Lake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Oso Flaco Lake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Callender</td>
<td></td>
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<td>U.S.G.S</td>
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</table>
REVIEW OF TOPOGRAPHIC SURVEY No. 6272

Title (Par. 55) Oso Flaco River & Vicinity, California

Chief of Party O.W. Swanson Surveyed by H. Clarke Inked by H. Clarke

Ship Pioneer Instructions dated Nov. 18, 1922 Surveyed in July 1934

1. The survey and preparation for it conform to the requirements of the Topographic Manual. (Par. 7, 8, 9, 13, 16.)

2. The character and scope of the survey satisfy the instructions.

3. The control and closures of traverses were adequate. (Par. 12, 29.)

4. The amount of vertical control that the Manual specifies for contours-formlines was accomplished. (Par. 18, 19, 20, 21, 22, 23.)

5. The delineation of contours-formlines is satisfactory. (Par. 48, 50.) See par. 4.

6. There is sufficient control on maps from other sources that were transmitted by the field party to enable their application to the charts. (Par. 28.) None submitted.

7. High water line on marshy and mangrove coast is clear and adequate for chart compilation. (Par. 16a, 43, 44.)

8. The representation of low water lines, reefs, coral reefs and rocks, and legends pertaining to them is satisfactory. (Par. 36, 37, 38, 39, 40, 41.)

9. Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)

See reverse side

10. The span, draw and clearance of bridges are shown. (Par. 16c.)

11. Locations and elevations of summits are given. (Par. 19, 51.)

12. The tree line was shown on mountains. (Par. 16g.)

NOTE: Strike out paragraphs, words or phrases not applicable and modify those requiring it. Paragraph numbers refer to those in the Topographic Manual. Use reverse side for extending remarks.
Paragraph 9

T1596 (1879)

The present survey is in good agreement with T1596 except as noted under "Changes in Coast Line" on page 2 of the Descriptive Report.

Chart 5302

The present survey is in good agreement.

T6272 supersedes T1596 in part.
13. The descriptive report covers all details listed in the Manual, in so far as they apply to this survey. (Par. 64, 65, 66, 67.)

14. The descriptive report also contains additional information required in aero-topography relative to type of photographs, method of compilation and type of ground control.

15. The descriptions of recoverable stations and references to shore line were accomplished on Form 524. (Par. 29, 30, 57, 67 except scaling of DMs and DPs, 68.) 10 cards submitted

16. A list of landmarks for charts was furnished on Form 567 and plotting checked. (Par. 18d, e, 60.)

17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.) No indication of having checked declinators

18. The geographic datum of the sheet is N.A 1927 (Adjusted) and the reference station is correctly noted. (Par. 34.)

19. Junctions with contemporary surveys are adequate.

Juns T 6273 on the North
Juns T 6271 on the South

20. Geographic names are shown on the sheet and are covered by the Descriptive report. (Par. 64, 66k.)

21. The quality of the drafting is good. (Par. 31, 32, 33, 35, 36, 37, 38, 29, 40, 41, 42, 45, 46, 47, 48, 49, 50.)

22. No additional surveying is recommended.

23. The Chief of Party inspected and approved the sheet and the descriptive report after review by

24. Remarks:

Reviewed in office by Chas. R. Bechtel May 29, 1936

Examined and approved:

C. R. Green
Chief, Section of Field Records

Fred. L. Peacock
Chief, Division of Hyd. and Top.

L. D. Malint
Chief, Division of Charts

Fred. L. Peacock
Chief, Section of Field Work