DEPARTMENT OF COMMERCCE
U. S. COAST AND GEODETIC SURVEY
E. LESTER JONES, Director

C. & G. SURVEY
L & A
APR. 6 1929
Acc. No.

State: CALIFORNIA

DESCRIPTIVE REPORT
Topographic Sheet No. 4403

LOCALITY
SOUTH OF
CRESSENT CITY
NORTHERN CALIFORNIA
Midway Pt. to Cushing Creek

1928

CHIEF OF PARTY
F. G. ENGLE, H. A. G. ENGINEER
T 4403 (1928)

Sanden rocks in Lat 41-42.1 Long 124-08.7
and in Lat 41-42.6 Long 124-08.8 have been transferred
from T 1248 (1871) and are being carried forward
as red in accordance with standard methods
of treatment of such rocks when they had not
been disapproved.

Reviewed: Fr. Pankowski
March 7, 1935
DESCRIPTIVE REPORT

TO ACCOMPANY

TOPOGRAPHIC SHEET NO. SCALE: 1:10,000.

COAST OF NORTHERN CALIFORNIA SOUTH OF CRESCENT CITY.

LIMITS: This sheet includes the shore-line of northern California South of Crescent City, between the Latitudes, 41° 39' and 41° 43' North and extending about a half mile inland.

GENERAL DESCRIPTION: The shore-line is very rugged. From the sand beach south of Crescent City the coast rises rapidly to rocky bluffs and sliding gulches. In the bights there are narrow gravel beaches at low tide. At high tide the sea run to the foot of the bluffs. The rocky bluffs are for the most part composed of a loose formation that is constantly sliding into the sea to such an extent that in some bights the shoreline has moved inland from fifty to a hundred meters since the last survey was made.

Above the rocky bluffs the mountain slopes are covered with brush to the tree line which is reached at elevations from 500 to 1000 feet. The mountain tops are covered with a dense growth of Redwoods.

There are several high outlying rocks, the most important being the group known as the Sister Rocks. The highest has an elevation of 72 feet. There is another group of four rocks about a mile south of Sister Rocks, the highest having an elevation of 27 feet. This group is about three-quarters of a mile off shore.

CHANGE OF COAST LINE: The previous survey was found to be in error in regards to the shore-line and the shape of rocks. Many of the bights have receded. Part of this may be due to slides and erosion. However it is evident that some of the points were not detailed enough in the original survey.

The mouth of Damnation Creek was charted 120 meters north of its actual location. Due to the rocky formation the mouth could not have changed since the original survey.

SURVEY METHODS: The triangulation stations, Round Rock, Beach Ledge, Easy, Climb and Sister Rock were recovered and used as control for this sheet.

Ten new signals were located for hydrography, namely; First, End, Slope, Slide, Ledge, Lo, Brown, Out, Dun, Bluff. These signals were all permanently marked.
A traverse was run from triangulation station Beach south along the Redwood Highway to triangulation station Ledge and on to triangulation station Easy and in each case checked. A traverse was run along the top of the bluff from triangulation station Easy to triangulation station Climbback south to the limit of the sheet at signal Bluff. Position of Bluff was checked by resecting on station Sister Rock and by traversing back along the beach to a point below triangulation station Easy. Position there was checked by resection. Traverse was carried from Easy to the beach and north to a point below Ledge and checked. All the details of shoreline were located by rod readings, rocks off-shore by three or more cuts. There was adequate control and resections were made on either Round Rock or Sister Rock together with one of the other stations at each plane-table set-up.

Contours were found to be in error in all gullies and bights so they were relocated. Contours were located by rod-readings and cuts using the hypsograph for computing the elevations. Elevations are in feet above high water. Contour interval 20 feet.

Some of the change in contours may be due to slides that are continually taking place in this stretch of coastline.

A magnetic meridian was found on November 15, using the declinometer, at triangulation station Ledge.

Party consisted of three men, one officer and a truck, for transporting party.

Work on this sheet was executed by a party from the Str. Discoverer from November 1, to November 21, 1928, according to instructions dated March 13, 1928.

Magnetic declination scaled 21° 00'
Declinometer error 5.9
Observed declination 21° 05.9

Respectfully submitted,

A. C. Thorson,
Jr. H. & G. Eng'r.
Topographer.

Approved and forwarded:

F. G. Engle,
H. & G. Eng'r,
Chief of party.
STATISTICS

Statute miles of shore-line------------------ 7.47
Statute miles of roads ---------------------- 4.03
Statute mile of creeks ----------------------- 1.38
Square statute miles of topography --------- 2.30
IN REPLY ADDRESS THE DIRECTOR
U. S. COAST AND GEODETIC SURVEY
AND NOT THE SENDER OF THIS LETTER

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4403
Midway Point to Cushion Creek, Calif.
Surveyed in 1928

Instructions dated March 13 and May 8, 1928 (DISCOVERER)

Chief of Party, F. G. Eagle.

Surveyed by A. C. Thorson.

The survey complies with the General Instructions.

It also complies with the specific instructions, except that
there are three sunken rocks that appear on the old survey which
are not shown on T. 4403, nor is there any indication that they
are non-existent.

Pencil notations of the doubtful rocks, which should be
cleared up by the field party, have been placed on the sheet.

Cushion Creek on the sheet is Cushing Creek on chart 5702.

The field drafting is excellent.

Reviewed by E. P. Ellis, July, 1929.

Approved:

Chief, Section of Field Records (CHARTS)

Chief, Section of Field Work (H. & T.)

Chief, Division of Charts

Chief, Div. of Hyd'y and Top'y
## PLANE TABLE POSITIONS.

<table>
<thead>
<tr>
<th>Object</th>
<th>Latitude D.M.</th>
<th>Longitude D.P.</th>
<th>Height feet</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>41 42 773</td>
<td>124 08</td>
<td>365</td>
<td>W.W. Marked with ½&quot; galv. i. pipe</td>
</tr>
<tr>
<td>End</td>
<td>41 44 2</td>
<td>124 08</td>
<td>662</td>
<td>W.W. Marked-same</td>
</tr>
<tr>
<td>Slope</td>
<td>41 41 549</td>
<td>124 08</td>
<td>731</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Slide</td>
<td>41 40 1753</td>
<td>124 08</td>
<td>455</td>
<td>W.W. &quot; &quot; Approx.</td>
</tr>
<tr>
<td>Led</td>
<td>41 40 738</td>
<td>124 08</td>
<td>469</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Lo</td>
<td>41 40 100</td>
<td>124 08</td>
<td>337</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Brown</td>
<td>41 39 1189</td>
<td>124 08</td>
<td>55</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Out</td>
<td>41 39 436</td>
<td>124 08</td>
<td>1038</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Dun</td>
<td>41 39 87</td>
<td>124 07</td>
<td>765</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Bluff</td>
<td>41 38 1522</td>
<td>124 07</td>
<td>625</td>
<td>W.W. &quot; &quot;</td>
</tr>
<tr>
<td>Rock</td>
<td>41 39 1327</td>
<td>124 08</td>
<td>939</td>
<td>Large rock ½ mile north of Sister Rks.</td>
</tr>
<tr>
<td>Rock</td>
<td>41 38 1324</td>
<td>124 08</td>
<td>826</td>
<td>Small rock. Highest of four south of Sister Rocks.</td>
</tr>
</tbody>
</table>
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

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. 4403

State CALIFORNIA

General locality NORTHERN CALIFORNIA South of Crescent City

Locality SOUTH OF CRESCENT CITY Midway Pt to Cushing Creek

Scale 1:10,000 Date of survey NOV. 10, 21, 1928

Vessel S.F.R. DISCOVERER

Chief of Party F. G. ENGLE

Surveyed by A. C. THORSON

Inked by A.C.T.

Heights in feet above mean tide to ground 0

Contours approximate with contour interval 20 feet

Instructions dated MARCH 13, 1928

Remarks:

U.S. GOVERNMENT PRINTING OFFICE 1928