DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

E. LESTER JONES, Director
C & G. SURVEY

L & A
APR 18 1929
Acc. No.

Oregon
State: California

DESCRIPTIVE REPORT
Topographic Sheet No. 4410

LOCALITY
Cape Ferrello
BROOKINGS, OREGON
Goat Island to Whales Head

1928

CHIEF OF PARTY
J. G. Bingle, H. G. Engineer
T 4410 (1928)

Two smaller rocks at Lat 42-07.6 Long 124-21.4 and a Lat 47-04.7 Long 124-19.5 which originated with T 1260 (1871) are being carried forward in red on the present survey. The field party's pencil notes regarding rocks which have been improved have been thoroughly investigated and after words removed as no longer necessary. These pencil notes were of great value in that they gave specific information that the particular rock is more important.

Additional Work Recommended

At the southern limit of T 4410 (1928) there is an overlap of about 0.3 mile with T 4423 (1928). The agreement is good in every respect except that two small islands in Lat 42-03.9 Long 124-18.4 and in Lat 42-03.7 Long 124-18.3 are both shown on T 4410 as 65 ft. High. The survey T 4423 (1928) shows these islands to be 34 ft and 32 ft. High respectively. It is recommended that this discrepancy be considered as matter for further field investigation of the less significant nature.

[Signature]
March 9, 1935
DESCRIPTIVE REPORT
TO ACCOMPANY
TOPOGRAPHIC SHEET NO.____ SCALE 1:10,000
NORTH OF BROOKINGS OREGON.

LIMITS:  This sheet includes the shore-line of Southern Oregon
North of Brookings, between the latitudes 42° 03.6'
and 42° 09.7' North. The sheet includes the outlying rocks and
contours from original sheet were checked in the interior.

GENERAL DESCRIPTION:  The shoreline on this sheet is for the most
part very rugged. The headlands form rocky
bluffs with small sand and gravel beaches between. There is a fairly
wide sand beach at The Whales Head. There are many shear bluffs
and the coastline north of Whales Head is a continuous bluff
rising a hundred feet or more out of the sea.

The interior is hilly and mountainous. The entire area
is covered with brush and trees making traversing difficult. The
Roosevelt Highway runs north close to the beach at the southern
end of the sheet but for the greater extent several miles inland.

SURVEY METHODS:  The triangulation stations, Harris, Ferrelo,
Whale Head. White Rock, Twin Rock, and House Rock
were used as control for this sheet.

Twenty four signals were built and located for hydrography
namely; Dit, Hazy, Wow, Bul, Con, Swell, Toe, Tat, In, Cape, Fer, Lo,
Oh, Spot, Flat, Long, Ng, bad, Squ, and Isle. Four signals built were
not used by the hydrographic party. Two signals, Nol and Cone Rock,
were natural objects cut in and used as signals for hydrography.

A traverse was run from triangulation station Harris south
along the beach to limit of the sheet and back to Harris along the road
shown. This traverse checked. The shoreline was tied in to that on
adjoining sheet to the south and the; agreed.

A traverse was run from triangulation station Harris to
triangulation station Ferrelo--during the progress of this traverse
resections were made on triangulation stations White Rock and Twin Rock
to check plane table positions. The traverse checked within the allowable
error. During the progress of the traverse cuts were taken to prominent
hills in the interior also rod readings were taken to closer points and
their elevations determined so as to check the contours transferred to the
sheet from the original promide.

A traverse was run from triangulation station Ferrelo
north to triangulation station Whalehead and closed with a 12 meter error. Necessary adjustment was made and a traverse was run from triangulation station Whalehead back as far as signal Swell to check location of the offshore rocks. Resections were made on triangulation station House rock during the progress of the traverses between Ferrel and Whalehead to check the plane table positions.

A traverse was run from Whalehead northwest to the top of the bluff near signal No. 1 at the northern limit of the sheet, from there south along the top of the bluff to the white wash on point north of the sand beach then along the top of the ridge to triangulation station Whalehead again. The traverse checked and also checked by the party working on the adjoining sheet to the north run over the same circuit.

All outlying rocks were located by three or more cuts and positions checked during progress of traverse.

All elevations were computed using a hypsograph.

Party consisted of one officer and three men using a Chevrolet truck for conveyance.

DISCREPENCIES AND CHANGES: A comparison was made between this sheet and the original survey. In comparing the contouring of the ground with elevations taken and the contours transferred from the original work was found to be correct.

However there is a great difference in the shorelines and the positions of offshore rocks and Islands. There were large rocks found where none appeared on the original and there were many rocks on the sheet that could not be verified. The shapes and positions of the rocks that appear on both do not agree. THEREFORE this sheet is presented as a correct representation of this stretch of coastline showing the rocks and Islands correct as to position and shape as near as practicable.

The work on this sheet was executed by a party from the Str. Discoverer from October 1, to October 30, 1928, according to instructions dated March 13, 1928.

Magnetic declination, measured from sheet 20° 20.0'
Correction 5.9
Observed declination 20° 25.9'

Respectfully submitted,

A.C. Thorson, Jr. H & G Engineer, Topographer.

Approved and forwarded,

F.C. Engle, H. C. Engineer, Chief of Party.
<table>
<thead>
<tr>
<th>Object</th>
<th>Latitude</th>
<th>D.M. Meters</th>
<th>Longitude</th>
<th>D.P. Meters</th>
<th>Height</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nol</td>
<td>42 09</td>
<td>1059</td>
<td>124 21</td>
<td>808</td>
<td>395</td>
<td>Cone shaped hill</td>
</tr>
<tr>
<td>Dit</td>
<td>42 09</td>
<td>894</td>
<td>124 21</td>
<td>1305</td>
<td>130</td>
<td>W.W. on rocky point</td>
</tr>
<tr>
<td>Hazy</td>
<td>42 09</td>
<td>252</td>
<td>124 21</td>
<td>1202</td>
<td>92</td>
<td>W.W. on rocky bluff</td>
</tr>
<tr>
<td>W.W.</td>
<td>42 08</td>
<td>1235</td>
<td>124 21</td>
<td>832</td>
<td>240</td>
<td>W.W. on sharp rocky point</td>
</tr>
<tr>
<td>Wow</td>
<td>42 08</td>
<td>793</td>
<td>124 21</td>
<td>309</td>
<td>130</td>
<td>White washed rock outcrop</td>
</tr>
<tr>
<td>Bul</td>
<td>42 08</td>
<td>398</td>
<td>124 21</td>
<td>108</td>
<td>32</td>
<td>White washed rock outcrop</td>
</tr>
<tr>
<td>Con</td>
<td>42 07</td>
<td>1501</td>
<td>124 21</td>
<td>33</td>
<td>88</td>
<td>White washed rock on slope</td>
</tr>
<tr>
<td>Swell</td>
<td>42 07</td>
<td>893</td>
<td>124 21</td>
<td>269</td>
<td>50</td>
<td>White wash on face of bluff</td>
</tr>
<tr>
<td>W.W.</td>
<td>42 07</td>
<td>415</td>
<td>124 21</td>
<td>412</td>
<td>130</td>
<td>White wash on rock ledge</td>
</tr>
<tr>
<td>Toe</td>
<td>42 07</td>
<td>128</td>
<td>124 21</td>
<td>498</td>
<td>198</td>
<td>W.W. pinnacle ledge</td>
</tr>
<tr>
<td>Cone Rock</td>
<td>42 06</td>
<td>1786</td>
<td>124 21</td>
<td>667</td>
<td>84</td>
<td>Cone shaped rock near shore</td>
</tr>
<tr>
<td>Tat</td>
<td>42 06</td>
<td>1690</td>
<td>124 21</td>
<td>516</td>
<td>140</td>
<td>White wash on rocky point</td>
</tr>
<tr>
<td>In</td>
<td>42 06</td>
<td>1114</td>
<td>124 21</td>
<td>106</td>
<td>52</td>
<td>White wash on rocky point</td>
</tr>
<tr>
<td>Cape</td>
<td>42 06</td>
<td>445</td>
<td>124 21</td>
<td>233</td>
<td>113</td>
<td>White wash on rock face</td>
</tr>
<tr>
<td>For</td>
<td>42 05</td>
<td>193</td>
<td>124 21</td>
<td>163</td>
<td>108</td>
<td>White washed sharp rock</td>
</tr>
<tr>
<td>Lo</td>
<td>42 05</td>
<td>1850</td>
<td>124 20</td>
<td>575</td>
<td>38</td>
<td>White washed rock on slope</td>
</tr>
<tr>
<td>Object</td>
<td>Latitude</td>
<td>D.M. Meters</td>
<td>Longitude</td>
<td>D.P. Meters</td>
<td>Height Feet</td>
<td>Remarks</td>
</tr>
<tr>
<td>--------</td>
<td>----------</td>
<td>-------------</td>
<td>-----------</td>
<td>-------------</td>
<td>-------------</td>
<td>-------------------------------</td>
</tr>
<tr>
<td>Oh</td>
<td>42 05</td>
<td>1332</td>
<td>124 20</td>
<td>785</td>
<td>37</td>
<td>White wash on cliff</td>
</tr>
<tr>
<td>Spot</td>
<td>42 05</td>
<td>739</td>
<td>124 20</td>
<td>298</td>
<td>80</td>
<td>Whit wash on rocky ledge</td>
</tr>
<tr>
<td>Flat</td>
<td>42 05</td>
<td>330</td>
<td>124 19</td>
<td>1232</td>
<td>38</td>
<td>White wash on cliff</td>
</tr>
<tr>
<td>Long</td>
<td>42 05</td>
<td>198</td>
<td>124 19</td>
<td>715</td>
<td>120</td>
<td>White washed pinnacle rock</td>
</tr>
<tr>
<td>Ng</td>
<td>42 04</td>
<td>1467</td>
<td>124 19</td>
<td>420</td>
<td>26</td>
<td>White wash on pile of rocks</td>
</tr>
<tr>
<td>Squ</td>
<td>42 04</td>
<td>309</td>
<td>124 18</td>
<td>1342</td>
<td>15</td>
<td>White wash on rock on beach</td>
</tr>
<tr>
<td>Bad</td>
<td>42 04</td>
<td>833</td>
<td>124 19</td>
<td>207</td>
<td>90</td>
<td>White wash on rock outcrop</td>
</tr>
<tr>
<td>Isle</td>
<td>42 08</td>
<td>1615</td>
<td>124 19</td>
<td>488</td>
<td>60</td>
<td>White wash on west side Prince I.</td>
</tr>
</tbody>
</table>
STATISTICS

Statute miles of shore-line ----------- 23.00

Statute miles of roads --------------- 1.49

Statute miles of shoreline ----------- 1.72

Square statute miles of topography ---- (8.00)
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY
WASHINGTON

SECTION OF FIELD RECORDS

Report on Topographic Sheet No. 4410
Goat Island to Whales Head, Oregon

Surveyed in 1928

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

Chief of Party, F. G. Eagle.

Surveyed and inked by A. C. Thorson

The survey complies with the general and specific instructions. The old survey was checked against the new one, as instructed, and the new one should be used for chart compilation of shore-line and rock details, to the exclusion of the old work.

There are several details on T. 1250 whose omission on 4410 is not accounted for. The representation of rocks differs from that on T. 4401 on the north and T. 4423 on the south.

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

The field drafting is excellent.

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

Approved:

Chief, Section of Field Records (Charts)

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

Chief, Division of Charts
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  C

REGISTER NO.  4410

State  OREGON

General locality  SOUTHERN OREGON Cape Ferrelo

Locality  NORTH OF BROOKINGS Goat Island to Whales Head

Scale  1:10,000

Date of survey  OCT. 1 TO OCT. 30 1928

Vessel  STEAMER DISCOVERER

Chief of Party  F. C. ENGLE

Surveyed by  A. C. THORSON

Inked by  A. C. T.

Heights in feet above LW to ground

Contour approximate

Footnote interval  20 feet

Instructions dated  MARCH 13, 1928

Remarks:

(Handwritten notes at the end of the form.)