### DESCRIPITVE REPORT

<table>
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<th>Type of Survey</th>
<th>Topographic</th>
<th>Field No.</th>
<th>D-42</th>
<th>Office No.</th>
<th>T-6894 b</th>
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#### LOCALITY

- **State:** Alaska
- **General locality:** Southwest Alaska
- **Locality:** End of Sandman Reefs  
  Pinnacle Rock

#### CHIEF OF PARTY

- **G. C. Mattison**

#### DATE

- **MAY 22 1943**
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 No. 42-42

REGISTER NO. T-6894a

State       Alaska

General locality     Southwest Alaska

Locality       East end of Sandman Reefs     Pinnacle Rock

Scale 1:20,000 Date of survey August-September 19.42

Vessel       U. S. C. & G. S. S. EXPLORER

Chief of party       C. C. Mattison

Surveyed by       H. S. Cole

Inked by       H. S. Cole

Heights in feet above NHW to ground    690 feet

Contour, Approximate contour, Form line interval    feet

Instructions dated March 18, 1938, supp. June 29, 1942

Remarks:  

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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 No.... D - 42

REGISTER NO.... T-6894

State... Alaska

General locality... Southwest Alaska

Locality... East end of Sandman Reef, Pinnacle Rock

Scale 1:20,000... Date of survey... August-September, 1942

Vessel... U. S. C. & G. S. S. EXPLORER

Chief of party... G. C. Mattison

Surveyed by... H. S. Cole

Inked by... H. S. Cole

Heights in feet above MHW to ground to tops of trees

Contour, Approximate contour, Form line interval... feet

Instructions dated... March 23, 1942, supp. June 29, 1942

Remarks:

GFO
Descriptive Report

to accompany

Topographic Sheets

C-42 and D-42

INSTRUCTIONS DATED: March 12, 1933; sup. June 29, 1942

PROJECT: HT-219

U. S. C. & G. S. S. EXPLORER G. C. Mattison, Commanding

GENERAL DESCRIPTION:

The area covered by these sheets is on the eastern edge of the Sandman Reefs, and is comprised of detached islands and rocks. All of the islands surveyed on these sheets are uninhabited except by birds, sea lions, and occasionally sea otters; and they are bare rocks with only a sprig of grass here and there. The large island to the southward of SCoT is inhabited by a sizeable colony of sea lions.

LANDMARKS:

The islands and rocks are their own landmarks. No special list is necessary except to mention that the rock on which SCoT is located is the most prominent island on both sheets. It is called Pinnacle Rock on existing charts.

CHARACTER OF CONTROL USED:

The control is from triangulation executed in 1940 with reference to the Unalaska Datum.

SUPPLEMENTAL SETUPS:

No traverses were run. Setups at other than signals or triangulation stations were located by rod readings checked by resection or by resection checked by a second station.

COMPARISON WITH PREVIOUS SURVEYS:

No previous detailed surveys have been made of this area.
Inquiry of local residents at settlements in this area revealed that there are no local names for the islands and rocks shown on these sheets except that the island on which SCOT is located was called Pinnacle Rock. This is in agreement with existing charts.

AUXILIARY SURVEYING METHODS:

Heavy swells made it impossible to land topographic gear on the islands at signals LOW and FUP. The shoreline at these places was located by cuts on the tangents and sextant cuts.

The rock at Lat. 54° 51'34", Long. 161° 50'75 was located by a combination of topographic and sextant cuts. This was necessary because the rock could not be identified at enough topographic stations.

The sunken rocks shown at Lat. 54° 49'50", Long. 161° 42'95', 120 meters NE of signal LOW, and about 330 meters East of SCOT were located by sextant cuts. They were not visible at the time the topography was done.

The rocks at Lat. 54° 49'53", Long. 161° 50'98 were located by sextant cuts and checked by topographic cuts.

Signal FAR was located by the intersection of three topographic cuts. It was not occupied due to heavy swells or rough seas.

LIST OF PLANE TABLE POSITIONS

See forms 5214 inclosed. Filed.

STATISTICS

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<tr>
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<th>T-6894a</th>
<th>T-6894b</th>
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<tbody>
<tr>
<td>Statute miles of shoreline</td>
<td>3.0</td>
<td>0.05</td>
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<tr>
<td>Area in square statute miles</td>
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Respectfully submitted,

Ensignment Howard S. Cole

Approved and forwarded:

Commander G.C. Mattison,
Chief of Party

APPROVAL BY CHIEF OF PARTY

T-6894a  T-6894b

Sheets C-42 and D-42 have been inspected and approved by me. The field work was performed under my occasional supervision. No additional work is considered necessary.

Commander G.C. Mattison, Chief of Party
<table>
<thead>
<tr>
<th>Station</th>
<th>Latitude Meters</th>
<th>Longitude Meters</th>
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</thead>
<tbody>
<tr>
<td>MOPT</td>
<td>54° 48' 1237 (618)</td>
<td>161° 48' 1026 (46)</td>
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<tr>
<td>SHAG</td>
<td>54° 47' 891 (964)</td>
<td>161° 46' 1012 (60)</td>
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<tr>
<td>PUP</td>
<td>54° 45' 1222 (633)</td>
<td>161° 48' 352 (720)</td>
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<tr>
<td>BREAK</td>
<td>54° 45' 1393 (462)</td>
<td>161° 42' 823 (250)</td>
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<tr>
<td>LOW</td>
<td>54° 47' 401 (1454)</td>
<td>161° 44' 510 (562)</td>
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<tr>
<td>TWIN</td>
<td>54° 49' 843 (1012)</td>
<td>161° 42' 803 (269)</td>
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PLANE TABLE POSITION  D - 42

FAR 54° 46' 732 (1123)  161° 38' 657 (416)
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<th>B</th>
<th>C</th>
<th>D</th>
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<tr>
<td>Pinnacle Rock</td>
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Names underlined in red approved by L. Heck on 1/22/44.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT
PHOTOSTAT OF

No. HE
No. T 8894a-b

CONFIDENTIAL

received May 29, 1943
registered verified
June 4, 1943
reviewed approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

| 82 | R. W. Knox |

V. Knox
DIVISION OF CHARTS
REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY  REGISTRY NO. 6894a&b

Field No. C-42
D-42

Southwest Alaska; Sandman Reefs; Pinnacle Rock
Surveyed August - September 1942, Scale 1:20,000
Project H. T. 219

Plane Table Survey  Aluminum Mounted

Chief of Party - G. C. Mattison
Surveyed and inked by - H. S. Cole
Reviewed by - J. A. McCormick, April 19, 1944
Inspected by - H. R. Edmonston

1. Adjoining Surveys

The survey covers a series of detached rocks and
islets and makes no overlaps with other surveys in
the area.

2. Previous Surveys

In Lat. 54°45.7', Long. 161°43.3' sextant cuts on
H-6586 (1940) determined a position for a rock awash.
The present survey does not show a rock awash at the
1940 position but does show a bare rock (elevation
5 feet) 100 meters to the south and a rock baring
4 feet at MLLW 200 meters to the south. The rock on
H-6586 can be disregarded. Other rocks in the area
had not previously been included on any of the surveys
of this Bureau.

3. Comparison with Chart 8703 (Print of July 31, 1943)
   Chart 8705 (Print of Feb. 19, 1943)

Topography in this area was applied to the charts
from B.P. 36700, a preliminary field compilation of
the latest hydrography and topography. Only revision
suggested is removal of the sunken rock symbol in
Lat. 54°49.50', Long. 161°42.95' (see descriptive
to the south on H-6769 (1942) appears to be a better
determination of the feature.
4. Compliance with Project Instructions
   Satisfactory.
5. Additional Field Work Recommended
   None.

Examined and approved:

Robert W. Hines
Chief, Surveys Branch

K. B. O. R.
Chief, Division of Charts

Earl O. Ketton
Chief, Section of Hydrography

Chief, Division of Coastal Surveys