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U.S. COAST AND GEODETIC SURVEY
JAN 23 1917
ALB. NO.

Form 504

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

State: *California*

11-5013

DESCRIPTIVE REPORT.

Topo. Sheet No. *3776 3777*

LOCALITY:

Humboldt Bay

Ste. Wemona

1917

CHIEF OF PARTY:

Lukens, R. R.

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Humboldt Bay ²

LIST OF OBJECTS
RECOMMENDED TO BE PLACED ON CHART.

By
R. R. Lukens, Chief of Party.

| Object and Description. | | Latitude | D.M. | Longitude | D.P. | Remarks. |
|-----------------------------|---|---------------------|--------|-----------|--------|--|
| C.G. Lookout | ✓ | 40 - 46 | 212.2 | 124 - 13 | 638.2 | N. Spit. |
| Mount | o | 40 - 44 | 790.9 | 124 - 14 | 622.7 | Tripod triangulation signal. |
| Log | o | 40 - 45 | 51.5 | 124 - 14 | 190.5 | Tripod triangulation signal. |
| Water Tank | ✓ | 40 - 44 | 1507.8 | 124 - 13 | 845.1 | Highest triangulation on S. Spit. |
| Beacon | ✓ | 40 - 44 | 1761.0 | 124 - 13 | 919.9 | Triangulation Station. |
| Siren | ✓ | 40 - 45 | 1246.8 | 124 - 13 | 285.0 | Light on N. Spit. |
| Tank | | | | | | Fog station. |
| Tank | o | See hydrog. sheets. | | | | Rock Coast Guard station. |
| Cupola | | | | | | Coast guard Sta. |
| Conical tank | ✓ | 40 - 43 | 1461.8 | 124 - 12 | 1086.5 | N. of Fields Indg. |
| Beacon | ✓ | 40 - 43 | 1505.0 | 124 - 12 | 1306.8 | Unused white beacon |
| Red Bluff | o | 40 - 44 | 1262.8 | 124 - 12 | 1255.2 | Tripod triangulation signal. |
| Radio, single | ✓ | | | | | |
| Pole | | 40 - 46 | 1172.8 | 124 - 11 | 341.4 | Fort Humboldt. |
| Flag Pole | o | | | | | Rolph Shipbuilding plant. |
| Brick Chimney | ✓ | | | | | |
| Court house | → | 40 - 47 | 1241.0 | 124 - 11 | 131.0 | Bayside lumber (Very prominent) |
| Dome Court House | ✓ | 40 - 48 | 376.0 | 124 - 09 | 959.0 | Eureka. |
| Cupola | ✓ | 40 - 48 | 1647.8 | 124 - 09 | 1239.1 | Cupola of white house on Indian Island. |
| Stack | ✓ | 40 - 49 | 321.4 | 124 - 10 | 1158.9 | N.E. ly & highest of 4 stacks, Hammond Lumber Co. Mill, Samoa. |
| Cog | o | 40 - 47 | 1850.5 | 124 - 11 | 761.4 | Tripod triangulation signal. |
| Drift | o | 40 - 48 | 781.7 | 124 - 11 | 458.9 | Tripod triangulation signal. |
| Stack | ✓ | 40 - 48 | 557.4 | 124 - 10 | 257.6 | Steel stack concrete base. Occidental Mill, Eureka. |
| Water Tank | ✓ | 40 - 48 | 1372.4 | 124 - 11 | 399.3 | Samoa. |

PLANETABLE POSITIONS

Sheet No. *A & B*

HULBOLDT BAY

By
R. R. Lukens, Chief of Party.

| Object and Description. | Latitude | D.M. | Longitude | D.P. | Remarks. |
|-------------------------|----------|------|-----------|------|---|
| ✓ Sear | 40 - 48 | 1322 | 124 - 11 | 193 | Searchlight on S. ly dock Samoa. |
| Ter | 40 - 49 | 9188 | 124 - 10 | 354 | Water tank Samoa. |
| ✓ End | 40 - 50 | 1054 | 124 - 07 | 086 | S.W. Cor. Arcata long wharf. |
| ✓ Yat | 40 - 48 | 996 | 124 - 10 | 327 | Cupola Eureka yacht club. Does not check geodetic position. |
| ✓ Lag | 40 - 48 | 944 | 124 - 10 | 07 | Small flag. |
| ✓ Pole | 40 - 48 | 987 | 124 - 09 | 860 | Small flag. |
| ✓ Smokestack | 40 - 48 | 554 | 124 - 10 | 257 | Large concrete & steel smoke stack. |
| ✓ Stack | 40 - 47 | 1439 | 124 - 10 | 1354 | |
| ✓ Able | 40 - 42 | 1587 | 124 - 12 | 1170 | S. gable large barn. |
| ✓ Gab. | 40 - 44 | 730 | 124 - 12 | 1125 | G gable barn. |
| ✓ Lan | 40 - 45 | 442 | 124 - 13 | 1264 | Support for navigation light. |
| ✓ Cran | 40 - 45 | 748 | 124 - 14 | 0015 | Top of crane. (movable) |
| ✓ Nat | 40 - 45 | 1535 | 124 - 14 | 682 | Small sig. on breakwater. |
| ✓ Der | 40 - 45 | 1263 | 124 - 13 | 798 | Top of crane. (movable) |
| ✓ Flag | 40 - 47 | 730 | 124 - 11 | 931 | Flag Pole Rolph ship yards. |
| ✓ Iron | 40 - 47 | 241 | 124 - 11 | 294 | Small Iron smoke stack at the slaughter house |

DESCRIPTIVE REPORT.
To accompany

TOPOGRAPHIC SHEETS 3776: B 3777

HUMBOLDT BAY

Calif.
1919.

Str. WENONAH

R.R. Lukens,
Chief of Party

These sheets the area of Humboldt Bay, but as the survey was in the nature of a revision, only the topography needed to bring the chart up to date was executed by this party.

CONTROL The geographic positions for the signals and many objects used as signals, were furnished this party by Mr. Latham. These positions will be found in Mr. Latham's records.

SHORE LINE The shore line of most the part included in the survey was a fine sandy beach. In places the low water line is far out, and as it is well determined by the hydrographic surveys, no attempt was made to sketch it in. Existing surveys show the character of the shores in a correct manner

THE CITY OF EUREKA appears on the existing chart in sufficient detail, and I would recommend no changes except on the water front. The small islands in front of Eureka are not improved, and are mostly nothing but marsh showing no signs of having changed and so were not included in the survey.

NORTH JETTY At the North Jetty the chart shows a road connecting the Coast Guard station and the Fog Station. This exists only as a narrow board walk which is drifted over with sand in a number of places. I think its appearance on the chart is misleading.

LANDMARKS A list of object which will be of value for publication on the chart, will be submitted with the topographic sheets

FAIRHAVEN This village is now known as ROLPH and is the seat of the Rolph Shipbuilding plant. Wooden ships only are built here.

R. R. Lukens

(Copy to R.R. Lukens, H.R. Bartlett and C.E. Christopherson)

Review of topographic sheets 3776 and 3777

Humboldt Bay, Cal.

by R. R. Lukens in 1919

The instructions directed that the survey be carried "to south of Table Bluff". The survey stops 4 miles north of that point, and no information is given as to whether the chart shows that strip of coast line correctly.

There were no geographic names on the sheets. These should always be given in ink.

The considerable additions to the wharves of Samoa indicate the probability of the development of a settlement at that place which should have been shown.

The magnetic variation should have been indicated, as directed by §150 of General Instructions.

Planetable positions should have been inked in red, as directed by §191 of General Instructions.

The descriptive report failed to give date of instructions. It might also have contained commercial information that would have been useful in correcting the charts and Coast Pilot. (except as noted).

The character and extent of the survey is in accordance with the instructions and C.T.S. methods. The inking of the sheets was well done and they present a neat appearance.

March 27, 1920

E. P. Ellis

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. 3776

State California
General locality Pacific Coast Humboldt Bay .
Locality Humboldt Bay Fields Landing to Fairhaven
Chief of party R. R. Lukens
Surveyed by H. R. Bartlett
Date of survey Sept., Oct., Nov., 1919
Scale 1 / 10,000
Heights in feet above 7 7 7
Contour interval 7 7 feet.
Inked by C.E.C. . . . Lettered by C.E.C.
Records accompanying sheet (check those forwarded): Photographs,
Descriptive report, Horizontal angle books, Field computations,
Data from other sources affecting sheet

Remarks: Work on 2 sheets; A & B

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The finished Topographic Sheet is to be accompanied by the following title sheet, filled in as completely as possible, when the sheet is forwarded to the Office.

U. S. Coast and Geodetic Survey.

Register No. **3777**

State **California**

General Locality **Humboldt Bay Pacific Coast**

Locality **Humboldt Bay Fairhaven to Mack R. Slough and Arcata Whf.**

Chief of party **R. R. Lukens**

Surveyed by **H. R. Bartlett**

Date of survey **Sept., Oct., Nov., 1919**

Scale **1/10,000**

Heights in feet above

Contour interval feet.

Inked by **C.E.C.** Lettered by **C.E.C.**

Records accompanying sheet (check those forwarded): Photographs,

Descriptive report, Horizontal angle books, Field computations,

Data from other sources affecting sheet

Remarks: **Work on 2 sheets; A & B**