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## U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

AUG 7 1933

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Form 504		
DEPARTMENT OF COMMERCE		<u> </u>
U. S. COAST AND GEODETIC SURVEY		
State: T. Hawaii		— — — — — — — — — — — — — — — — —
-5613		
DESCRIPTIVE REPORT.		
4744		
ppographic Sheet No. A(T. 51)	i	
LOCALITY:		
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Maui Island		
Makena Bay		
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CHIEF OF, PARTY:		
O. W. Swainson, H. &G. Engr.		
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## DESCRIPTIVE REPORT TO ACCOMPANY

#### TOPOGRAPHIC SHEET OF

MAKENA, MAUI, T. H.

Str. PIONEER

O. W. SWAINSON, CMDG.

#### INSTRUCTIONS

Topography in this area was done pursuant to instructions dated August 19, and November 12, 1930, Project No. 69, Hawaiian Islands.

#### GENERAL DESCRIPTION

The Coast is rocky in most places, there being a few stretches of sand beach, parts of which have rocky ledges at water line. Algeroba trees grow almost to the water line. These trees are small, about 15 feet high, and quite thick. North of Makena is a rocky point forming the north side of Makena Bay. This point is not very prominent from off shore, though is readily distinguished when one is near shore. Puu Olai, or Olai Hill is about 1 mile south of Makena and is quite prominent. It has the appearance of a cone from near Molokini Island but from the west of Makena it appears as a double hill. This hill is the only prominent landmark on the sheet.

#### LANDMARKS

Olai Hill, about 1 mile south of Makena is the most prominent landmatk in the vicinity.

There is a green roofed house at the south end of the sand ridge on which are located 0 Red, Pete and Al. This house is prominent from the sear from West to Northwest of the house, and is readily identified by its situation at the south end of this beach.

### CHARACTER OF CONTROL

△ Stone, △ Rough, and △Puu Olai were used for control. A closed traverse was run from △ Stone northward to ♥ Wag and back to △ Stone and from △ Stone to △Rough and from △ Rough to ○ You. △Puu Olai was used for orientation on these traverses, each of which closed within requirements.

@ Wag, Rac, Ban, Pat, Sec, Me, were located by traverse or created to them from Stone. The other signals were rodded in, as we shoreline.

## CLOSING ERRORS AND ADJUSTMENTS

Traverse from \$\int\_{\text{to 0}}\$ fone to 0 Top (0 Wag) -- back to \$\int\_{\text{Stone}}\$ closed without error.

A Stone to ARough closed with error of two meters, unadjusted. Traverse run from ARough southward was not closed, but cuts from near Pat (on flat rock ledge) and from 0 You to 0 Me intersected the cut from A Stone to 0 We in a point which checked rod reading from 0 You to 0 Me. This showed traverse to be without appreciable error.

## DESCRIPTION OF AUXILIARY SURVEY METEODS

The rock northwest of \( \times \) stone was located by three cuts, intersecting in a point. The inshore rocks were located by one, two, or three cuts, and by proximity to some located rock by sketching.

 $\odot$  Roc. was located by five cuts, a small rock south of Gil was located by three cuts.

Rocks northwest of 0 La were located by three cuts, that is, the lower right hand rock was, the others by a cut and sketching.

## CHANGES IN PROMINENT OBJECTS

No changes were noted in prominent objects.

## COMPARISON WITH PREVIOUS SURVEYS

The work agrees very well with previous surveys. The shoreline checks the old sheet, except for small irregularities that show up on a large scale sheet and were too small to be noted on a small scale.

The coast is now almost completely covered with algeroba trees and no elevations were obtained inland as it would cause undue delay. The contouring of the old sheet appears to be correct with the exception of two water courses near @Can.t These appears to:flatten out assone goes inland. The small ponds near the south end of the sheet, east of See were noted by the party, but time was too short to locate same. They were located by survey. previous survey

The shoreline joins the previous survey satisfactorily.

#### NEW NAMES

No new names were given in the survey.

#### CHANGES IN SHORELINE

No changes in shoreline.

## CHARACTER OF MARSHES

No marshes in area covered by this sheet.

### STATISTICS

1.2 Statute miles of Roads

> " Shoreline 2.9

C. J. Wagner, Jr. H. & G. Engr., C. & G. S., U.S.C. & G.S.S. PIONEER.

Approved and forwarded:

O. W. Swainson,
H. & G. Engineer, C. & C.S.,
Commanding U.S.C. & G.S.S. PIONEER.

# LIST OF TOPOGRAPHIC POSITIONS

NAME	LAT. O	LONG.	REMARKS
Wag	20 39	156 26	Banner.
Тор	20 39	156 26	Round knob on rock.
We	20 39	156 26	Small rock.
Gil	20 39	156 26	Whitewash
Li <b>k</b>	20 39	156 26	Paint on rock.
Der	20 39	156 26	Mast at landing.
Way	20 39	156 26	Whitewash
Cán	20 39	156 26	Whitewash
Roc	20 39	156, 26	Highest rock in group.
Ban	20 39	156 26	Banner - 2"x 4".
Go	20 39	156 26	Concrete church steeple.
Red	20 39	156 26	Telephone pole.
Pete .	20 38	156 26	•
Al	20 <b>3</b> 8	156 <b>26</b>	<b>. n</b>
La	20 38	156 26	Corner of lanei of small hut.
Pat	20 38	156 26	Small flag.
Will.	20 38	156 26	•
You	<b>20 3</b> 8	156 26	Banner.
See	20 . 38	156 27	Whitewash.
Me	<b>20 3</b> 38	156 27	Banner.

Title (Par. 56) Makeua Bay, Establicia, Hawaiian Islands
Chief of Party Q.M. Swainson Surveyed by 6. J. Magner Inked by 6. J. Magner
Ship Proneer Instructions dated aug. 19, 1930 Surveyed in Jan. 1931

- 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. 49, 50.) None shown on sheet
- 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.) Month 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.)
- Rocks and other important details shown on previous surveys and on the chart were verified. (Par. 25, 26, 27.)
- 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.

8-317

- 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. Mar 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.)
- 16. Molist of landmarks for charts was furnished on Rorm 567 and plotting checked. (Par. 16d, e, 60.) Receiptive Report has par on this outject
- 17. The magnetic meridian was shown and declination was checked. (Par. 17, 52.)
- 18. The geographic datum of the sheet is Old Hawaiian and the reference station is correctly noted. (Par. 34.)
- 19. Junctions with contemporary surveys are adequate. T2679 (1904-5) covers this area on scale 1-10000
- 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, 39, 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 R.J. Christman Nov. 16, 1933.

Examined and approved:

Chief, Section of Field Records

Chief. Section of Field Work

Chief, Division of Charts Chief, Division of Hyd. and Top.

Form 537a

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

U. S. COAST & GEODETIC SURVEY
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## TOPOGRAPHIC TITLE SHEET

Acc.	No.	_

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 A ( T-51 )

REGISTER NO. 4744

State Hawailan Is.
General locality XXXXXXXXXXX Maui
Locality MAKENA BAY
Scale 1-5000 Date of survey January 19 31
Vessel U. S. C. & G. S. S. PIONEER
Chief of PartyQ. W. Swainson
Surveyed by C. J. Wagner
Inked by C. I. Wagner
Heights in feet above MHW to ground to tops of trees
Contour Approximate contour Form line interval feet
Instructions dated August 19 and November 12 , 1930
Remarks:

D. B. GOVERNMENT PRINTING OFFICE; 1928

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