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No. 3525

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

*Superintendent.*

*State:* \_\_\_\_\_

**DESCRIPTIVE REPORT.**

*Sheet No.* \_\_\_\_\_

**LOCALITY:**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*1915*

**CHIEF OF PARTY:**

*C. R. Hand.*

11-4645

DESCRIPTIVE REPORT.

To accompany topog. sheet "B", sta. Puu Papai to sta. Puu Iloli, Molokai Id. T.H.

March-April, 1915.

Eoline R. Hand, Asst., Chief of Party.

This sheet embraces the middle of the S. coast of the island: the W. end shows the commencement of the gentle slopes of Mauna (mt.) Loa, and E. of this is a plain which extends N. across to the cliffs on other side, and in which area the hill known as Kualapuu, or Middle Hill, stands most conspicuously. The E. end shows rugged country: the steep, deeply eroded slopes rise to a height of about 4000 ft. at the central ridge of the island.

The shore is sand beach, with extensive mud flats ~~and a reef~~ and a reef. The slopes may be said to be barren: there is a bunch of grass here but it is very scant. The shore is lined with algeroba, a small leafed bush-like growth. A reef, coral crosses the sheet, between 1 1/2 and 2 mi. offshore: it was impossible to secure even an approximate location of this reef line from the shore.

Erosion by wind and rain is playing havoc with this island: the original lava has broken down under time and weather into small rocks and red dust: the latter is carried down to the sea by the agents above-mentioned with the result that the space between edge of reef and shore is filled with mud, and this is especially true near the W. end where the trade has a free haul across the low saddle: here the mud is so level and extensive that it is difficult to say just where is the high water line for a change of an inch or so of tide sends this line in and out hundreds of feet: at very high tides a sheet of water extends away back across the road and among the trees in the cove E. of Puu Iloli. Another sign of the damaging erosion is seen on the plain above this cove where small boulders are found up on little pedestals formed by the wind blowing the dirt from underneath: the pedestal becomes long and slender, breaks, and the process starts again with the stone in its lower position. A kind of weed which would flourish in this dry soil and whose roots tended to bind and protect, would be of great value to this part of the island: mangrove has been planted down the cove with some such idea in mind.

A good road traverses the sheet, and a branch goes up over the plains to Kalae, the house of Cooke, the manager of Molokai Ranch, and to the point where a trail goes down to Kalaupapa, the leper settlement. Nearly all of this area is owned or leased by the Molokai Ranch, whose main business is cattle raising on the plains about Middle Hill. They also make considerable honey, and apiaries are placed at frequent intervals along the beach road, where the bees feed on the algeroba tassel. Most of this honey was shipped to Germany (being inferior, not finding market on Coast) but account of the war there is now no market and it is accumulating at Kaunakakai where it may be had at the remarkable price of \$1.50 for Five Gallons.

Kaunakakai is the ranch headquarters and is a valuable harbor. A mole is built out across the flat to a wharf in the deep bight of the reef. This, together with buoys, range, steamers, exports, etc. was written up in my report accompanying revision of Kaunakakai Harbor chart no. 4106, recently submitted to Office.

I have established several white cairns up on the slope, for the purpose of locating the reef line and other sounding.

As the town is so low, and mostly obscured by algeroba, the great gulch above will be useful in directing a course for Kaunakakai Harbor. When close in, the range formed by green church (wh. trimmed) and small wharf shed, will bring up to the channel buoy.

*Eoline R. Hand*

Asst., U.S.G. & G.S.

LIST of POSITIONS F-3525

to accompany topog. sheet "B," sta. Puu Papai to sta. Puu Iloli, Island of Molokai, T. H.

March-April, 1915.

*Eoline R. Hand, Asst., Chief of Party.*

#### \* suggestions for offstage

RECOVERY NOTES, TOPO. STATIONS

SHEET 3525

RED Recovered as described.

DO " " "

COCO " " "

GIN Searched for and not recovered.

Pole " " " " "

P.L.B.

PIN 1" by 1" pole found standing in center of cross cut in rock.  
Fence runs about 1 m. east of the station.

HOP Cairn of rocks had fallen down on the south side and was rebuilt,  
and whitewashed. It is now about 6 ft. high.

Sob Not found after search. Believed to be gone.

CULVERTS AT KAWELA Western one is now a concrete ford. Eastern one  
is wooden bridge.

WE Not found after search. Signal placed where wall and beach intersect.

HAM Not searched for. Seen from sea as white cairn.

RUN Remains of cairn found, rebuilt and whitewashed.

TOP Low, circular cairn found on top of hill.

C.J.W.

U. S. C. & G. S. S. PIONEER, O. W. Swainson, Chief of Party.

1930-1931

# LIST of POSITIONS T 3525

coconuts on beach "B" sea. From Hami to sea. Puna Sholi, Island of Molokai, H. I.  
March-April, 1915.

Edwin R. Marshall, Asst., Chief of Party.

Station	Lat	Long	Alt	Notes
No. 1	21° 06'	157° 08'	220	Whitewash on beach - sand inside. See "A" possibly different name.
Ped.	06° 16'	157° 04'	156'	Squashed oyster shells at "B" end orient a line.
Cin	06° 16'	157° 03'		Large low cabin in E. corner of wall or filled in fish board
Pole	06° 03'	157° 02'	100	Pole in cabin cut in side flats limited to sea end + E. of Elm
Coco	21° 05'	157° 01'	100	House of 2 houses at coconut grove line W. of Hami
Fernberg	05'	157° 01'	100	Same revision as Hami. Same date as Hami. Same place
L.D.	05'	01'	100	Large green church whitewashed. Stamps in corner. Large lime kiln on bank
Can.	05'	01'		Conveniently connected on bank
Hami	05'	01'		Lg. villa on beach and E. Hami
Piggy	05° 14'	157° 00'	130	Piggy Hill just N. of Hami and soon inside.
Hopps	05° 16'	156° 59'	145	Whitewashed cabin, 8 ft. 2 m. E. of Hami and soon inside.
Seb	21° 04'	156° 57'	160	16" iron, one end in sand now & a just 16.9 feet length
We	21° 05'	156° 55'		Where wind runs through sand cuts sand out cover section of grey streaked barn
Marshall	05'	156° 54'	80	Point on cabin line. It is a pun name!
Marshall	05'	54'	"	" on E. side fish board below a pun name!
Marshall	21° 04'	22° 54'	230	230 ft. of boundary, 2 m. from house which is bended instead of a straight one like

Applied to compilation new chart 4120 - Feb 26, 1941 - JFW

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C. & G. SURVEY,  
LIBRARY AND ARCHIVES  
JUL 13 1915  
Acc. No. 70711

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: \_\_\_\_\_

DESCRIPTIVE REPORT.

*Any place* Sheet No 3525<sup>a</sup>

LOCALITY:

1905

CHIEF OF PARTY:

*C.R. Hard*

3525A

DESCRIPTIVE REPORT

To accompany topographic sheet of Kaunakakai Harbor, Molokai, T.H.  
revision of chart no. 4106.

Eoline R. Hand, Asst., Chief of Party.

The mole and wharf is apparently same as last survey: there is a small wharf shed which may be an addition.

The shoreline is changed as shown; the salt pans are a recent addition: the ground around these pans, and also around the range lights, is very low; at highest tides there is an inch and more of water all through this area, inspects, between the salt pans and the railroad, and as far back as the main road.

The range lights, and buoys, are as shown: the direction of range was ascertained both by compass bearing from one light, and by setting up table at W. end of wharf and taking several readings on the rod held in small boat maneuvered across range. The range was found to be .67 metres, or 220 ft. from edge of wharf.

The edge of reef opposite wharf was found in same way.

Kaunakakai is the principal landing on the island possibly excepting the re-settlement on other side with its the headquarters of the Molokai Ranch, which owns or leases most of the surrounding land. There is a Post office, two unimportant stores, and a wireless station: this station is small, being about one kilowatt. Messages are relayed to Lahaina, Maui, for Honolulu.

The S.S. Mikahala, L.L.C., N.G. calls in on Tuesdays from Honolulu, and on Saturdays for Honolulu. Cattle and honey are exported by the ranch: this honey formerly went to Germany, but now seems to be a drug on the local market account war.

The church makes good landmark: it is sketched and described on sheet. the wireless pole also shows well. The rest of the village is almost entirely obscured by a dense growth of algeroban.

The railroad shown is simply for handling freight to and from end wharf: the small cars are pulled by mules.

There is now no railroad along coast as formerly shown. This road was built to handle sugar cane, but after a year or two the Am. Sugar Co. abandoned the attempt to grow cane because of lack of water.

The best way to find this point is to head in towards the immense gulch which will be seen South of the two conspicuous red hills (Puu Luahine being the more N.W. hill). This gulch is unmistakeable, is very deep and has cliff sides: it is the first great gulch to the right of (or East of) the great saddle seen from offshore, and it is the last of the succession of great gulches which start at East end of Molokai, and continue up to the above mentioned saddle.

*Eoline R. Hand  
Asst. M. S. G. G.*

P.S. By keeping Wharf house and church in range you will bring up to channel buoy. *Ell*

## LIST of POSITIONS T-3525a

to accompany topog. sheet of Kaunakakai Harbor; Molokai, T.H. May, 1915.  
revision of chart no. 4106

Eoline R. Hand, Asst., Chief of Party.

Name	$\phi$	D.M.	$\lambda$	D.P.	hei.	Description.
Mun	21°05'	649	157°01'	571		house of James Munro, asst, mgr. Molokai Ranch.
" " 96				1161		
Less	05'	680		01	926	Wireless mast: station in house to East
		1165			806	
Green	05'	723		01	1015	Steeple green church near end mole: sketch on sheet.
		1122			716	
Pole	05'	1148		01	1271	flagstaff back of salt pans.
		698			461	
Fence	05'	295		01	1348	Shore end of fence on N.W. side of mole (longer of two fences)
		1549			384	
Cor	05'	104		01	1554	the outer, and W, corner of wharf shed.
		1741			778	
fn. range	21°05'	834	157°01'	1125	27	f. wh. day beacon, wh. skeleton tower and triangle
" "		011		607		
rear "	05'	988		01	1028	occ. wh.
" "		857			712	
				40		

to accompany topog. sheet of Kauaiakukai Harbor; Molokai, T.H. May, 1915.  
revision of chart no. 410

Foline R. Hana, Asst., Chief of Party.

LIST OF POSITIONS T-3525a

Name	D.M.	A	D.R. N.	Description
Mun	2105	548	15701	House of James Munro, assist. mgn. Molo Kai Ranch
Gless	05	1680	01	1161 wireless mast, station in house to East
Green	05	1723	01	926 Steeple green church near end of mole, situated on street
Pole	05	1748	01	1271 flagstaff back of salt ponds
Fence	05	1525	01	1345 shore end of fence on N.W. side of mole (longer of two fences)
Cor	05	1749	01	1528 the outer, smaller, corner of wharf shed
In range	2106	539	15701	End wall, dev breakers, with skeleton tower, and highway 16 rear 21
		548	01	1021 27
		548	01	212 40

Not Searched for