Notes of Survey.

Kapapala Kau Hawaii

According to the Certificate of the Boundary Commission Jan. 23d 1876

No 12
R.A. Lyman
Survey by J.M. Lydgate

BEARINGS. Magnetic	DISTANCES. Chains.	Links.	REMARKS.
			Commencing at a small Sand Hill on the Sea shore called Pu Nui a Kanemakala at the junction of this Land and the Govt Land of Waalaala and running thence
1. S. 81° 10' W.		32.040	along said Land to a pile of stones on the top of a pooky bluff called Pu Nui a Ka. thence the pile of stones is on a clear plain near the North East corner of the high back of the pali. thence
2. S. 24° 54' W.		3320	to pile of stones
3. S. 67° W.		1240	" " "
4. N. 85° 30' W.		4540	" " "
5. S. 74° 10' W.		2343	" " " on stone
6. N. 86° W.		1145	" " " at the South East corner of Land owned by Lono
7. N. 65° E		654	along Government lands
8. N. 16° 15' W.		1782	
9. N. 29° E.		5478	to A.D. Cut in pahoehoe
10. N. 43° 45' E.		1090	to I Cut in pahoehoe
11. N. 33° 15' E.		1842	to X Cut in pahoehoe
12. N. 58° 45' W.		1452	
13. N. 55° 15' W.		2845	
14. N. 55° 15' W.		2507	to K Cut in pahoehoe
15. N. 55° 30' W.		4815	to pork marked H
16. N. 47° 30' W.		1216	to pork marked M.
17. N. 57° 30' W.		1462	to edge of thin pahoehoe
18. N. 59° 30' W.		2924	to thin lava marked V
19. N. 39° W.		1575	to water hole in lava thence along Land of Waalaala
20. N. 43° 30' W.		1720	to an thin lava marked K
21. N. 58° 55' W.		14330	to lower point of Bac thin called Omalumi
22. N. 43° 35' W.		4640	along Bac thin
23. N. 24° 40' W.		3366	to a large stone marked ◇ W
24. N. 24° 40 W.		2244	along Land of Kahaloa to pile of stone on stone called Kilohana this is a small stone just above a small grove of thin trees 1/4 of a mile west from the road
25. N. 40° 00' W.		45870	to the lake in the South end of the crater Mokuawaawaa
26. N. 56° 05' E.		63630	along the Land of ..... to a small hill named Pu Nui Waalaala at the N.E. cor of this Land and at its junction with the Keaina Kaanlon of Kau this hill is situated a little south from the center of Kilauea, being the middle one of three on the land of Mauna Loa
27. S. 57° 00' E.		17200	along the Land of Kaanlon to an Land in the Lava Flow
28. S. 33° 35' E.		46000	to a pile of stones by the side of the road from Kau to Hilo 1556 ft. S.W. of Wahaulua Huts 5th
29. S. 55° 00' E.		5740	to the South Lake in the crater of Kilauea called Halemaumau
30. S. 75° 30' E.		6670	to pile of stones near the edge of Kaanahaehae Cone. the pile of stones stands about 150 ft. S.E. of the crater
31. S. 57° E.		7500	to pile of stones on thin lava often called Kaanahaehae

BEARINGS.	DISTANCES. Chains.	Links.	REMARKS.
32. S. 8° 15' E.		30.220	to pile of stones at seathon at point called Makolea (or Kolheiau) the pile of stones stands on top of the small pole that appears along the seashore
34. N. 62° 00' W.		6111	to Hopuhopu a high hill on the shore. A pile of stones marks the point on the summit
35. S. 61° 37' W.		28.245	along seathon to point of Commencement Containing an area of 172.780 Acres more or less

The land was surveyed largely from triangulation. A Base line of 14,600 feet was carefully measured with a Invar foot wire, on the flat South of Keaiki Cone ranch. The angles were carefully taken by repetition by a 7 in. Brunton transit reading 4 minutes.

The principal Stations were as follows:

Punahaha — Line of Bluffs about 2 miles below Keaiki Cone ranch — A large pile of stones marks the station

Ridge — A station west and on the ridge East of the Mauna Loa flow — marked by a pile of stones

Ainapo — A small shaw, a few hundred feet directly below Keaiki cone ranch, marked by a pile of stones

Kamakaiea — A cavity hill on the pahoehoe below the first pali. There is a cluster of small hills near, the southernmost one being the station. A pile of stone marks the spot

Wahahuna — On the Bluff forming the outer N.W. station edge of Kilauea, also on the Kau pali. A pile of stone marks the spot

Kilohana — A shaw about the same size as the one marked Ainapo on this is on the boundary of the land of Waalaala

Mokuawaawaa — The lake in the center of the crater of Kilauea. Its shape is nearly round and is about a little less than a mile in diameter. It is clearly defined on a little day when triangulated from

Punalaala — The hill at the South eastern corner of the land

Table of Distances and True Bearings

Punahaha to	Ridge	N. 65° 06' W.	25.054 feet
	Ainapo	N. 2° 23' E.	42.210 "
	Kamakaiea	N. 38° 40' E.	30.173 "
	Kilohana	N. 40° 55' W.	51.750 "
Ridge to	Ainapo	N. 37° 46' E.	39.980 "
Kamakaiea to	Punahaha	S. 38° 40' W.	30.173 "
	Ainapo	N. 13° 24' E.	25.265 "
	Kilohana	N. 72° 16' W.	54.953 "
	Wahahuna	N. 33° 19' E.	51.042 "
Wahahuna to	Kamakaiea	S. 33° 19' W.	51.042 "
	Ainapo	S. 61° 37' W.	51.126 "
	Punalaala	N. 46° 32' W.	63.840 "

Plan of Survey.

Map by J.M. Lydgate
June 1874
Reduced and Copied by
C. S. Wilbraige
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