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Kula Pipe Line  
Sec 1

HAIKU

Copy furnished Dept. Public Works  
October 21, 1910

File in Carton 13.

# Territory of Hawaii,

Office of the Government Survey.

Honolulu, T. H., August 2, 1910.

## Kula Pipe Line.

Description of Wooden Pipe Section,  
through Land of Haiku, Maui.

Beginning at a concrete post on the boundary of Haiku and Makawao from which Government Survey Trig. Station "Puu Kakae" is by true azimuth  $325^{\circ} 53'$  4129.1 feet, thence along general line of pipe and trail, as shown on plan, direct azimuths and distances being:-

1.  $252^{\circ} 06'$  88.8 feet on a curve to the right;
2.  $264^{\circ} 26'$  54.1 feet;
3.  $249^{\circ} 20'$  120.8 feet on a curve to the left;
4.  $251^{\circ} 55'$  94.3 feet along trail;
5.  $257^{\circ} 02'$  104.6 feet across Gulch No. 22;
6.  $283^{\circ} 37'$  169.3 feet across Gulch No. 23;
7.  $318^{\circ} 15'$  140.8 feet along trail;
8.  $313^{\circ} 13'$  87.8 feet along trail;
9.  $248^{\circ} 08'$  142.1 feet along trail;
10.  $283^{\circ} 35'$  98.9 feet along trail and curve to right;
11.  $293^{\circ} 25'$  54.4 feet along trail and curve to left;
12.  $263^{\circ} 23'$  49.4 feet along trail and curve to left;
13.  $195^{\circ} 14'$  45.9 feet across small gully;
14.  $204^{\circ} 29'$  65.4 feet along trail and curve to right;
15.  $230^{\circ} 27'$  48.1 feet along trail and curve to right;

*Description of  
Section No. 1*

16. 256° 09' 60.4 feet along trail;
17. 238° 03' 162.1 feet across Gulch No. 25;
18. 270° 18' 84.8 feet across Halehaku Gulch;
19. 264° 36' 64.8 feet;
20. 296° 18' 125.4 feet on a curve to the left;
21. 275° 45' 65.2 feet across small stream;
22. 204° 06' 48.4 feet along trail;
23. 170° 04' 105.8 feet along trail;
24. 253° 19' 48.9 feet along trail;
25. 330° 03' 65.3 feet along trail and curve to the right;
26. 293° 23' 112.6 feet along trail and curve to the right;
27. 313° 15' 56.1 feet along trail and curve to the right;
28. 265° 22' 139.8 feet across Gulch No. 27;
29. 283° 26' 67.3 feet across Gulch No. 28 on a curve to the right;
30. 292° 02' 63.0 feet along trail;
31. 306° 44' 96.7 feet across Gulch No. 28A;
32. 340° 25' 69.8 feet crossing trail and along trail;
33. 265° 36' 125.6 feet crossing trail and Gulch No. 29;
34. 206° 08' 60.9 feet along trail;
35. 259° 47' 125.6 feet along trail;
36. 302° 01' 349.8 feet along trail crossing Gulch No. 30;
37. 259° 57' 42.9 feet across Gulch No. 31;
38. 210° 17' 66.6 feet along trail;
39. 249° 10' 182.7 feet along trail;
40. 244° 04' 250.7 feet along trail;
41. 235° 40' 57.3 feet along trail;
42. 229° 35' 72.3 feet along trail;
43. 248° 23' 77.8 feet along trail;

44. 268° 32' 112.6 feet on a curve to the right and crossing Gulch No. 32;
45. 283° 48' 71.5 feet on a curve to the left and crossing Gulch No. 33;
46. 255° 39' 51.7 feet along trail;
47. 247° 03' 69.7 feet along trail;
48. 322° 26' 92.6 feet crossing trail;
49. 269° 53' 85.4 feet crossing trail twice and Gulch No. 34;
50. 288° 14' 116.3 feet;
51. 237° 46' 118.5 feet across Gulch No. 35;
52. 263° 38' 53.2 feet;
53. 241° 42' 159.4 feet;
54. 271° 06' 120.9 feet on a curve to the right crossing trail;
55. 299° 05' 118.5 feet on a curve to the right along trail;
56. 275° 09' 65.4 feet along trail, from this point Government Survey Trig. Station "Waikamoi" is by true azimuth 315° 38' 30" 1834.0 feet;
57. 319° 01' 111.9 feet across Gulch No. 36;
58. 0° 33' 79.6 feet across trail;
59. 354° 59' 73.7 feet across Gulch No. 37;
60. 299° 30' 62.3 feet on a curve to the right;
61. 326° 58' 116.0 feet on a curve to the right crossing trail and Gulch No. 38;
62. 300° 23' 172.5 feet on a curve to the left and across Gulch No. 39;
63. 268° 47' 134.7 feet on a curve to the left and crossing trail twice;
64. 336° 35' 52.2 feet along trail;
65. 300° 14' 44.3 feet along trail;
66. 283° 45' 199.6 feet crossing trail three times and Gulch No. 40;

67. 268° 35' 112.7 feet crossing Gulch No. 41;
68. 271° 52' 30.2 feet crossing trail on a curve to the right;
69. 276° 03' 125.3 feet along trail;
70. 275° 52' 37.7 feet along trail;
- 71.. 222° 58' 124.0 feet along trail;
72. 258° 50' 64.2 feet across Gulch No. 42;
73. 293° 45' 62.8 feet;
74. 323° 37' 96.0 feet along trail;
75. 286° 34' 139.8 feet along trail;
76. 276° 14' 98.8 feet crossing Gulch No. 43 on curve to the left;
77. 262° 26' 168.4 feet crossing Gulch No. 44 and the trail;
78. 301° 53' 74.8 feet to portal of tunnel;
79. 303° 55' 164.6 feet up ridge to a galvanized pipe at corner of reservoir lot, from this point the West corner of the reservoir lot is by true azimuth: 12° 22' 225.2 feet.

FRED E. HARVEY

Engineer in Charge,  
Kula Pipe Line.

*Completed  
R.H. King  
Oct 21/10*