

Kula Pipe Line
Sec 3

Kaliakini

Copy furnished Supt. Public Works
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File in Carton 13.

Territory of Hawaii,

Office of the Government Survey.

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

*Description of
Section No. 3*

Description of Wooden Stave Pipe Section of
Kula Pipe Line through land of Kalialinui, Maui, property
of the Haleakala Ranch Company.

Part I. Beginning at the junction of the 6" galvanized pipe to Kula,
the 4" galvanized pipe to Makawab and the 12" wooden stave pipe, from
which a \triangle cut in on a ledge of rocks about midway between eucalyptus
Groves Nos. 1 and 2 is by true azimuth $218^{\circ} 59'$ 192.3 feet; from said \triangle
the Government Survey Trig. Station "Puu Nianiau" is by true azimuth
 $313^{\circ} 28' 30''$ 14079.0 feet, and running by true azimuth along the
general line of pipe, direct azimuths and distances being:-

1. $281^{\circ} 54'$ 143.3 feet;
2. $272^{\circ} 11'$ 136.8 feet on a curve to the left;
3. $262^{\circ} 28'$ 82.5 feet;
4. $254^{\circ} 55'$ 97.4 feet on a curve to the left;
5. $242^{\circ} 42'$ 59.9 feet on a curve to the left;
6. $238^{\circ} 14'$ 212.9 feet across Gulch # 1;
7. $232^{\circ} 40'$ 42.2 feet on a curve to the left;
8. $226^{\circ} 57'$ 56.0 feet to edge of Gulch # 2;
9. $197^{\circ} 17'$ 183.3 feet across # 2 Gulch on a curve to the left;
10. $169^{\circ} 30'$ 149.2 feet;
11. $187^{\circ} 27'$ 172.9 feet on a curve to the right to end of the curve,
from which point Government Survey Trig.
Station "Grove" is by true azimuth: 304°
 $38'$ 140.1 feet;

12. 199° 14' 104.0 feet across Gulch # 3;
13. 208° 42' 69.4 feet on a curve to the right and across Haleakala trail;
14. 229° 26' 69.0 feet on a curve to the right;
15. 238° 49' 268.7 feet along slope;
16. 246° 28' 54.2 feet along slope*;
17. 256° 52' 75.0 feet on a curve to the right;
18. 267° 05' 45.8 feet;
19. 248° 00' 84.8 feet across Gulch No. 4;
20. 228° 16' 310.0 feet up ridge;
21. 233° 36' 74.6 feet on a curve to the right;
22. 255° 07' 74.4 feet on a curve to the right;
23. 266° 00' 248.9 feet across sway;
24. 268° 51' 174.2 feet on a curve to the right;
25. 274° 12' 150.0 feet on a curve to the right;
26. 276° 45' 149.0 feet to the West edge of Kahakapao Gulch;
27. 272° 37' 38.8 feet to the boundary of Idlewilde, from this point the South corner of Idlewilde is by true azimuth 279° 38' 481.8 feet;

Part II Beginning again on the East boundary of Idlewilde at a point from which the South corner of Idlewilde is by true azimuth 331° 18' 231.3 feet and running by true azimuths:-

28. 197° 56' 187.5 feet along trail;
29. 202° 17' 71.5 feet on a curve to the right;
30. 212° 25' 159.1 feet;
31. 221° 24' 70.8 feet to a concrete post on the boundary of Makawao and Kalialinui, from this point the following places are by true azimuth;

Puu Kakae	277° 55' 30"	8082.2 feet;
Maliko	338° 54' 30"	740.7 feet;
Olinda	97° 55' 30"	2046.5 feet;

FRED E. HARVEY
Engineer in Charge, Kula Pipe Line

*Completed
Dec 21/16*