

Kula Pipe Line  
See 6 thru  
Haleakala Ranch in  
Kaliainui & Palakuni

Copy furnished Dept. Public Works  
October 24, 1910

**File in Carton 13.**

# Territory of Hawaii,

Office of the Government Survey.

Honolulu, T. H., August 5, 1910.

## Kula Pipe Line.

Description of Six Inch Galvanized Pipe Line  
through Haleakala Ranch,  
Kalialinui and Pulehunui, Maui.

*Part I* Beginning at junction of 12 inch wooden stave pipe, the 4 inch galvanized pipe to Makawao and the 6 inch galvanized pipe to Kula, from which a  $\triangle$  on a ledge of rocks about midway between eucalyptus Groves Nos. 1 and 2 is by true azimuth  $218^{\circ} 59'$  192.3 feet, elevation 4128 feet; from said  $\triangle$  Government Survey Trig. Station "Puu Nianiau" is by true azimuth  $313^{\circ} 28' 30''$  14079.0 feet, thence along general line of pipe, the direct azimuths and distances being:

1.  $68^{\circ} 35'$  78.7 feet;
2.  $60^{\circ} 46'$  75.9 feet;
3.  $87^{\circ} 10'$  243.3 feet;
4.  $105^{\circ} 07'$  145.7 feet to edge of eucalyptus Grove No. 2;
5.  $113^{\circ} 45'$  120.3 feet through Grove No. 2;
6.  $62^{\circ} 08'$  129.8 feet through Grove No. 2;
7.  $19^{\circ} 40'$  175.4 feet through Grove No. 2;
8.  $20^{\circ} 43'$  169.0 feet through Grove No. 2 and across gully to rd  
ridge;
9.  $18^{\circ} 33'$  343.4 feet crossing deep gulch;
10.  $20^{\circ} 30'$  94.0 feet across gully;
11.  $74^{\circ} 00'$  155.7 feet along slope;

12. 86° 46' 210.1 feet along slope;
13. 52° 36' 93.3 feet along slope;
14. 23° 20' 217.4 feet along slope;
15. 42° 31' 78.9 feet across small gully;
16. 42° 39' 323.5 feet across sway;
17. 46° 29' 258.2 feet crossing small gully;
18. 52° 15' 591.8 feet crossing deep gulch, from this point  
Government Survey Trig. Station "Pulehu"  
is by true azimuth 33° 09' 7164.1 feet  
and "Kalialinui" 326° 13' 1718.4 feet;
19. 21° 29' 328.5 feet across flat;
20. 24° 41' 154.2 feet across flat and about 100 feet makai of the  
water trough;
21. 27° 27' 931.6 feet crossing sway;
22. 23° 59' 53.5 feet along slope;
23. 11° 56' 500.4 feet along slope and across a small gulch;
24. 351° 10' 233.6 feet along slope;
25. 8° 31' 97.8 feet across small gulch;
26. 10° 42' 162.8 feet along slope;
27. 52° 07' 261.6 feet along slope;
28. 7° 18' 114.0 feet along slope;
29. 2° 15' 329.3 feet across sway and along slope;
30. 12° 51' 73.0 feet along slope to East edge of Waiale Gulch,  
from which point Government Survey Trig.  
Station "Waiale" is by true azimuth  
41° 04' 402.8 feet;
31. 48° 47' 268.0 feet across Waiale Gulch;.
32. 85° 30' 87.3 feet along slope;

33. 77° 54' 223.3 feet along slope;
34. 56° 43' 26.4 feet along slope;
35. 30° 18' 877.0 feet along slope and across sway to ridge;
36. 23° 08' 356.4 feet across sway;
37. 24° 50' 291.0 feet across sway to ridge;
38. 50° 34' 273.1 feet across sway to ridge;
39. 60° 46' 1295.4 feet across sway, flat, ridge and gulch to ridge;
40. 44° 57' 30.1 feet along slope;
41. 29° 36' 172.7 feet along slope;
42. 44° 19' 331.3 feet across sway, from this point Government Survey Trig. Station "Pulehu" (2) is by true azimuth 1° 17' 227.3 feet;
43. 50° 01' 216.7 feet along slope;
44. 16° 53' 279.7 feet across sway;
45. 22° 01' 253.1 feet across sway;
46. 29° 31' 98.7 feet along slope;
47. 26° 39' 200.5 feet along slope to boundary of Grant 3515 to Haleakala Ranch and Omaopio, from this point Government Survey Trig. Station "Pulehu" (2) is by true azimuth 214° 51' 831.7 feet, "Puu Pane" 146° 04' and the Kula Church Spire 68° 12' ;

Part II Crossing R. P. 4015 to Ali on the following azimuths and distances:

- 16° 14' 152.8 feet along slope;
- 53° 50' 130.5 feet along slope;
- 24° 59' 327.4 feet across sway;
- 13° 46' 168.9 feet along slope;
- 30° 39' 229.3 feet to boundary of Omaopio and Pulehunui, a large boulder in Laumaia Gulch;

Part III Beginning again at this point and running:

48. 30° 39' 222.0 feet;
49. 37° 43' 177.5 feet along slope;

- 50. 33° 00' 194.4 feet along slope;
- 51. 37° 14' 219.3 feet along slope;
- 52. 26° 50' 1753.3 feet crossing two sways and a ridge;
- 53. 25° 01' 264.8 feet across sway to ridge;
- 54. 5° 11' 194.5 feet along slope;
- 55. 42° 22' 167.2 feet to boundary of Pulehunui and Pulehuiki.

FRED E. HARVEY

Engineer in Charge,  
Kula Pipe Line.

*Completed  
Rodding  
Oct 21/10*