

PISCES V DIVE REPORT

Pilot T. Kerby Wt. \_\_\_\_\_  
 Observer Chuck Holloway - Pilot Wt. \_\_\_\_\_  
 Observer Title/Affil. HURL

Dive # PV-470  
 Date Oct. 14, 2001

Observer Alex Malahoff Wt. \_\_\_\_\_  
 Observer Title/Affil. HURL - MARREC

Time of Dive 0819  
 Time of Surface 1625  
 Time Submerged 8:06  
 Time Thru Last Dive 2996:55  
 Total Time to Dive 3005:01  
 Dive Depth 1328<sup>m</sup>  
 Water Depth 1328<sup>m</sup>  
 Water Temp. 3.3°C @ 1328<sup>m</sup>  
 Visibility \_\_\_\_\_  
 ABT # at Neutral \_\_\_\_\_  
 Captain Bob Hayes

Dive Location Loihi - Pele's Pit  
 Lat. 18° 54.36' N Long. 155° 15.37' W  
 Purpose:  Research  Training  Demo  
 Other: Bailing Pot Vents 18° 54.404' N 155° 15.425' W  
 Special Equipment:  
 Camera (type) Sony digital/Panasonic/CCD  
 Manipulator Titan/Hyco  
 Other \_\_\_\_\_  
 Support Vessel R/V Keimikai - O-Keneloa

Dive Results/Remarks: Dive to collect water samples from hydrothermal vents, and survey pit. 0918 On the bottom on a steep talus slope on the west slope of Loihi. Move upslope to 1104<sup>m</sup> and contour to #18. 0943 Begin descent into pit from #18. 1018 On the floor of the crater at 1328<sup>m</sup>. Move upslope to the ENE. Chuck piloting. 1035 Locate strong venting at 1310<sup>m</sup> at the base of the Tower Wall. 90°C. Deploy Marker #44. Pilot switch. Collect samples from new vent, named "Bailing Pot" vent. Collect Rosettes & MARREC sampler. 1153 Move back to Jet Vent site to orient ourselves with the new vent sites from a known area. Locate #42 at Jet Vent site. 1254 Move to SE. Up Tower Vents formation to #46 @ 1260<sup>m</sup>. Move down wall to #48 @ 1263<sup>m</sup>. Observing vent. Sound of heavy sustained rockfall on communications speaker. Quickly move sub away from wall to open water. Sound of rockslide steps. Move along wall to #47a 1269<sup>m</sup> 93°C. Take titanium Major Equipment Deficiencies: sampler. Move up steep gully to S of #47 to relocate stringy bacteria. Very silty. Poor visibility. Recent rockfall debris in area where bacteria was on last dive. Strong upslope current. Move NW to #46. Move back down to floor of Pit. 1503 1328<sup>m</sup> Leave the bottom.

Pilot Varry Kerby  
 Ops. Mgr. Varry Kerby

Date 10/18/01  
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