

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-597 Date: October 22, 2004  
 Observer 1: Steve Price  
 Affiliation: HURL sub ops. PIT Dive Location: Loihi, pit dive  
 Observer 2: Eric De Carlo Latitude: 18° 54.467' N  
 Affiliation: University of Hawaii Longitude: 155° 15.730' W  
 Purpose: Research Training Test Time of Dive: 0810  
 Other: \_\_\_\_\_ Time of Surface: 1702  
 Special Equipment: \_\_\_\_\_ Time Submerged: 8:52  
 Cameras: Sony DV. Ros Color Time Thru Last Dive: 3934:09  
 Manipulators: Titan. HYCO Total Time to Dive: 3943:01  
 Samplers/Sensors: Gas tight bottles, Majors Dive Depth: 1327m  
Bact traps. slide traps Water Depth: 1327m  
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Temperature: 3.5°C @ 1326m  
 Captain: Ross Barnes Visibility: 6m. Very silty

Dive Results/Remarks: Pele's pit dive to sample hydrothermal vent sites. 0920  
Land in steep talus at 1107m. Move upslope to 1104m and contour to  
the east. 0942 At marker #18. 0946 Begin descent into pit. 1025 1326m in  
bottom of pit at 1326m. 1030 Move upslope to the NE to 1310m then contour  
to the east. Locate marker #29 at the Jet Vent site. Continue to the SE.  
1058 1310m at Boiling Pot site. Collect a rock. Move upslope to marker #30. (Old  
#48 site) Move downslope along the wall to the #37 site. #37 is missing.  
Temperature in vents is 61.4°C. Collect sponge and water samples and  
deploy samplers and shrimp trap. Deploy marker #38. 1253 1275m  
move to the south to the south side of the spillway. No active venting. Very  
unstable dike walls. Move back to north spillway then 60m up vertical wall  
above #38. Move from top of wall into pit. Relocate Boiling pot site.  
Collect rocks with pyrites. Move upslope to ascend the wall above  
the Boiling Pot site. Relocate the active vent area  
 Equipment Deficiencies: discovered in 2003 during dive #PV-549. Set out second sample site and  
collect bacteria and temperature samples. 1535 Move into the pit to drop wts.  
1540 Release weights from 1303m and begin ascent to the surface.

Pilot's Signature: Terry Kerby Date: 10/22/04  
 Operations Director: Terry Kerby Date: 10/22/04