

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____ Dive # PV-473
 Observer Colin Wollerman Wt. _____ Date October 17, 2001
 Observer Title/Affil. HURL - PIT

Observer Alex Malahoff Wt. _____
 Observer Title/Affil. HURL

Dive Location Loihi, Pele's Pit
 Lat. _____ Long. _____
 Purpose: Research Training Demo
 Other: _____
 Special Equipment:
 Camera (type) Sony digital - Panasonic - CCD
 Manipulator Titan - Hyco
 Other _____
 Support Vessel R/V Kaimihai - O - Kenaloa

Time of Dive 0814
 Time of Surface 1625
 Time Submerged 8:11
 Time Thru Last Dive 3021:47
 Total Time to Dive 3029:58
 Dive Depth 1328m
 Water Depth 1328m
 Water Temp. 3.1°C @ 1328m
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Dive Results/Remarks:

Dive to sample hydrothermal vents and survey pit for more hydrothermal vent sites. 0927 Land on a steep talus slope at 1128m. Move upslope to 1104m and contour to marker #18. Pass over #18 and descend into Pele's Pit. 1004 1328m on the bottom of the pit. 1005 Begin moving upslope to ENE. 1014 1310m at the "Boiling Pot" vents. Marker #44. Temp. 9.1°C. Take Rosette samplers #6, 7, & 8. Sediment scoop #6. Marbec sample, and Niskin bottle. 1145 Move West to center of crater then up the West slope to 1260m. Begin clockwise circuit of pit at 1263m searching for vents in talus slope. 1211 1272m. Locate venting and bacterial mat on a vertical wall. Temp. 7.6°C. Collect Rosette sample #1 & #2 of bacterial mat. 1244 Collecting rocks with sulfides from a steep talus slope. 1302 Moving back to the West. Wide angle video of pit wall structure with stbd CCD camera. Locate vents on talus slope at the base of a wall. Temp. 5.7°C.

Equipment Deficiencies:

Take Rosette sample #4 of mat. Collect rocks. 1351 Move back to west and West South West. 1351 Locate more vents in talus on west slope. 5.0°C Rosette #5. Mat. Move through rugged vertical wall terrain at 1260m 1432 1269m at #47. Sediment scoop #7 of sulfides. Move to floor of pit. 1508 Leave the bottom from 1328m

Pilot Terry Kerby Date 10/18/01

Ops. Mgr. [Signature] Date 10/18/01