

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____
 Observer Colin Wallerman Wt. _____
 Observer Title/Affil. HURL - PIT
(Pilot in training)
 Observer Stuart Donachie Wt. _____
 Observer Title/Affil. MARBEC

Dive # PV-469
 Date Oct. 13, 2001

Dive Location Loihi, Pele's Pit
 Lat. 18°54.36'N Long. 155°15.37'W

Time of Dive 0814
 Time of Surface 1635
 Time Submerged 8:21
 Time Thru Last Dive 2988:34
 Total Time to Dive 2996:55
 Dive Depth 1329m
 Water Depth 1329m
 Water Temp. 3.5°C @ 1329m
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Purpose: Research Training Demo
 Other: _____
 Special Equipment:
 Camera (type) Sony - Panasonic - CCD
 Manipulator Titan - Hyco
 Other _____
 Support Vessel R/V Kaimihai - O-Kanaloa

Dive Results/Remarks: Dive to collect samples from hydrothermal vents and explore pit for other possible vents. 0928 Lend on a steep talus slope on the west outside slope of Pele's Pit in 1130m. Move upslope to 1104m and contour to marker #18. 0948 Begin descent into pit. 1039 1329m On bottom on west end of crater floor. Move ENE. 1051 1312m @ Marker #42. 1056 At marker #19 Take sonar images to update area map. 1109 Move SE to tower vents wall at 1304m. Venting at base of wall. Move up wall. 1137 @ Marker #46. Move down vertical wall SE of #46 to #48 @ 1263m. Temp. 80°C (Check temps. a vents along wall near #48. 74°; 73°; 68°; 1227 Move along base of wall down towards marker #47. 1242 Locate strong venting at 1276m at base of wall. 84°C. Deploy marker #50. 1249 Move up a steep talus slope of recent landslide debris. 1257 1269m @ #47. 90°C. marker sample, Rosette buckets # 1, 2, 3. Sed. scoop of sulfides. Collect rocks.
 Equipment Deficiencies: Move up gulley to S. of #47. 1400 Locate stringy bacteria on steep talus in gut of a schut between two walls. Collect with rosette. Move to SSE along wall. Venting at base of wall. Move to floor of pit. 1511 Leave the bottom from 1329m

Pilot Terry Kerby
 Ops. Mgr. Terry Kerby

Date 10/18/01
 Date 10/18/01