

PISCES V DIVE REPORT

Pilot T. Kerby Wt. _____ Dive # PV-329
 Observer A. Malakoff Wt. _____ Date Aug. 29, 1997
 Observer Title/Affil. HURL

Observer C. Holloway, Co-pilot Wt. _____
 Observer Title/Affil. HURL sub ops.

Dive Location Loihi, Pele's Pit
 Lat. 18°54.410' N Long. 155°15.600' W ^{Pele's Pit Gate}
 Purpose: Research Training Demo

Time of Dive 0810
 Time of Surface 1742
 Time Submerged 9:52
 Time Thru Last Dive 1990:03
 Total Time to Dive 1999:55
 Dive Depth 1328
 Water Depth 1328
 Water Temp. _____
 Visibility _____
 ABT # at Neutral _____
 Captain B. Hayes

Other: _____
 Special Equipment:
 Camera (type) Sony (VDO) Panasonic (VDO) Photo sea (still)
 Manipulator HYCO
 Other Basket, Water Sampler, Niskin bottles, Luption, Mejdors Scoops
 Support Vessel R/V Kaimikai-O-Kanaloa

Dive Results/Remarks: Land at 1117m on a rubble and silt/nontromite slope to the NW of the "Gateway" entrance to Pele's Pit. Move upslope. Discover an old Alvin drop weight. Contour to the SSE at 1104m. Locate marker #18 at edge of scarp. Descend into Pit. Land on a steep talus slope with diffused hydrothermal venting at 1257m. Move down slope. Strong southerly current sets the sub into a vertical wall at 1300m. Venting on wall. Move N. Locate vents at marker #19. Recover sediment scoop left on yesterday's dive. Sample vent at 1305m. Temp. Probe in vent. Temp. 198°C. Take water samples and sediment scoop. Move upslope to Jet Vent Site. Collect rock. Leave Jet Vent site from 1297m and move down slope to survey vent area. Set Marker #42 at ridge to mark southern boundary of vents. Move NNW against at southerly current to conduct a survey around the pit at 1300m. Return to vent site. Descend to bottom of crater. Leave the bottom from 1328m

Pilot T. Kerby Date 8/4/97
 Ops. Mgr. JK Date 8/4/97