

PISCES V DIVE REPORT

Pilot T. Kerby Wt. \_\_\_\_\_  
 Observer A. Malachoff Wt. \_\_\_\_\_  
 Observer Title/Affil. HURL

Dive # PV-327  
 Date Aug 27, 1997

Observer C. Holloway Co-pilot Wt. \_\_\_\_\_  
 Observer Title/Affil. HURL Sub-ops

Time of Dive 0814  
 Time of Surface 1755  
 Time Submerged 9:41  
 Time Thru Last Dive 1971:31  
 Total Time to Dive 1981:12  
 Dive Depth 1302<sup>m</sup>  
 Water Depth 1302<sup>m</sup>  
 Water Temp. 3.8°C @ 1253<sup>m</sup>  
 Visibility \_\_\_\_\_  
 ABT # at Neutral \_\_\_\_\_  
 Captain Bob Hayes

Dive Location Loihi, South rift to Pele's Vents  
 Lat. 18°53.87'N Long. 155°15.370'W  
 Purpose:  Research  Training  Demo

Other: \_\_\_\_\_

Special Equipment:

Camera (type) Sony (VDO) Panasonic (VDO) Photos See (Still)

Manipulator Hyco (Titan removed for repair)

Other Basket Water Samplers Lupton, Majors, Sediment Scoops, Thermistor

Support Vessel R/V Kaimikai O-Kanaba

Dive Results/Remarks:

Begin dive on South Rift at Kape's Cone. Land on a rugged talus slope in 1271<sup>m</sup>. Move to the North. Discover diffused active venting on a mound of jumbled talus at 1253<sup>m</sup>. Move N. towards Pohaku vents. Bypass Pohaku vents to achieve the primary objective to survey Pele's Pit. Tracking and communications are marginal. Move to the N. along a steep scarp on the West end of Pele's Pit to a position nearly center along the West end at 1103<sup>m</sup>. Descend into the pit on an Easterly heading on a gradually descending glide path to the East side of the pit. Pass some large pinnacle formations to the N. at a depth of 1240<sup>m</sup>. Land on the ENE side of the Pit at a depth of 1300<sup>m</sup>. Move along a wall at 1302<sup>m</sup>. Locate active venting at 1300<sup>m</sup>. Sample a vent with vigorous diffused flow in a sand channel between rock outcrops. Moderately strong southerly current makes sampling a challenge. Place a Temp. probe in the vent. The highest temp. was 18.7°C before having to remove the probe due to maneuvering in the current. Move West away from the wall and leave the bottom from 1300<sup>m</sup>.

Pilot T. Kerby

Date 8/28/97

Ops. Mgr. T. Kerby

Date 8/28/97