

PISCES V DIVE REPORT

Pilot T. Kerby Wt. \_\_\_\_\_  
 Observer Co-Pilot T. Gatterson Wt. \_\_\_\_\_  
 Observer Title/Affil. HURL Sub Ops

Dive # PV-337  
 Date Sept. 10, 1997

Observer Frank Sansone Wt. \_\_\_\_\_  
 Observer Title/Affil. UofH

Time of Dive 0810  
 Time of Surface 1702  
 Time Submerged 8:52  
 Time Thru Last Dive 2056:54

Dive Location Loihi, Pele's Pit  
 Lat. 18°54.43 N Long. 155°15'.68 W <sup>marker #18</sup>

Purpose: Research Training Demo  
 Other: \_\_\_\_\_

Total Time to Dive 2065:46  
 Dive Depth 1307  
 Water Depth 1307  
 Water Temp. 4.0°C @ 1287m  
 Visibility \_\_\_\_\_

Special Equipment:

Camera (type) Photosea (still) Panasonic - Sony

Manipulator HYCO, Titan

Other Rosette & suction Pump, Gas tight Water samplers, Scoops

ABT # at Neutral \_\_\_\_\_

Support Vessel R/V Kaimikai - O-Kanaloa

Captain Bob Hayes

Dive Results/Remarks: Land on a steep talus slope at 1128m on the West slope. Move upslope to the edge of the Pele's Pit Crater. Move N. along the edge of the crater rim to marker #18. Descend into the crater from marker #18. Pass two vertical walls to the N. at 1212m. Land on a steep loose talus slope in 1285m. Land in vents. Sampling vents on a steep talus slope at 1287m Temp. Probe in vents. 5.9°C. Take Lupton sampler and major sampler. Suck mat with rosette sampler. Collect a rock. Strong upslope current. Try to get down to 1300m to locate main vent site, but upslope current moves us up away from 1300m. Move up a vertical wall from vents to the N.E. Venting all  
 Equipment Deficiencies: along vertical wall. Encounter overhangs  
Move up a pinnacle with extensive venting. Top of pinnacle is at 1200m. Move in mid water from pinnacle to the N.W. Eventually locate N. side of rough at 1175m. Contour to the SW. Pass Big Pete. Land in Lohiau Vents. Recover OSMO sampler. Take rest of water samplers and deploy mat bio-samplers. Collect Rock and sediment scoops

Pilot T. Kerby

Date 9/12/97

Ops. Mgr. [Signature]

Date 9/12/97