

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____
 Observer A. Melchhoff Wt. _____
 Observer Title/Affil. U of H - HURL

Dive # PV - 304
 Date Sept. 25, 1996

Observer Allen Wright CO-Pilot Wt. _____
 Observer Title/Affil. HURL

Time of Dive 0823

Dive Location Loihi - Trip into Peles Pit
 Lat. 18° 54.6' N Long. 155° 15.26' W

Time of Surface 1717

Purpose: Research Training Demo

Time Submerged 8:51

Other: _____

Time Thru Last Dive 1787:27

Special Equipment: _____

Total Time to Dive 1796:18

Camera (type) Sony (Digital) Panasonic - Photo sea

Dive Depth 1328 m

Manipulator Hyco - Titan

Water Depth 1328 m

Other _____

Water Temp. 3.1° - 7.0° @ 1297'

Support Vessel R/V Kaimikei - O - Kenaloa

Visibility in pit

ABT # at Neutral _____

Captain Bob Hayes

Dive Results/Remarks: Land on a sloping talus bottom of old pillow basalts in 1149^m. Land to the N.E. of the E. pit crater. Move W. locate a fresh scarp. Move N.N.W. along scarp. Turbid water. 7mtr. vis. Surface tracking has us N. of rim of E. pit crater. Continue moving N.W. along scarp of recent landslide activity to the port and old bottom to STBD. Scarp becomes less defined. Short scarp steps. Position is N. of Midridge. 1152. Begin moving S. from 1170^m up slope on old pillow formations to the summit of the ridge between the W. & E. pit craters. 1013^m on intact pillow ridge summit. Recent landslide evidence to the S.W. of pillow ridge into W. pit crater. Descend to the SSE down vertical walls of broken pillows and large columnar basalts. Scrapes and scars on walls from large landslide debris. Descend along E. wall into W. Pit Crater to a depth of 1180^m. Move upslope to south then descend over old talus ridges
 Equipment Deficiencies: to the sandy channel that leads into the E. pit crater. Move S. to Pele's Pit. Descend into Pele's Pit from the N.E. end. Descend along unstable vertical walls. Poor visibility. Locate vents at 1296^m. Locate areas of very active venting along N. Wall. Intense venting from jets under overhanging rock. Rock walls above vents are covered with thick coating of white bacterial mat. Temp. of probe on sub bumper bar. 7.0°C. Move to sandy slope. Vents coming through sand. Hear rock slide on 27Khz. Comms. Move to flat sandy area to the SW of vent site. Leave the bottom from 1328^m.

Pilot Terry Kerby

Date 9/25/96

Ops. Mgr. AK

Date 9/25/96