

PISCES V DIVE REPORT

Pilot T. Kerby Wt. _____ Dive Number P5-243
 Observer G. McMurtry Wt. _____ Date Sept. 10, 1993
 Observer Title/Affil. U of H

 Observer C. Mayer Wt. _____
 Observer Title/Affil. U of H Time of Dive 0748
 Time of Surface 1345
 Dive Location Loihi - Pele's Vents Time Submerged 6:02
 Lat. 18°54.47'N Long. 155°15.58'W Time Thru Last Dive 1363:33
 Purpose: Research Training Demo Total Time to Dive 1369:35
 Other _____ Dive Depth 1075^m 3526[']
 Special Equip.: Water Depth 1075^m
 Camera (type) Sony Hi-8, Panasonic, Photosax Water Temp. Hottest vent temp. 20°C
 Manipulator Schilling - NYCO Visibility _____
 Other _____ ABT # at Neutral _____
 Support Vessel R/V Kila Captain R. Barnes

Dive Results/Remarks: Seas fair. Dive at launch site N.E. of Pele's Vents area. @855 Over bottom in 1075^m on south side of Pele's Vents peak. Move up peak on S.W. side. Sheer vertical walls with overhanging pillow formations and large loose blocks. @927 Over top at 975^m move to N.E. side. @937 On bottom in 975^m at Pele's Vents. Sample site at vent in rubble bottom in shrimp zone. (southern end of active vent field. Thermister in vent. Take La bombe sample and two major samples. No communications. Try UQC and 27KHz. Signal from Schilling arm to surface indicates we are still active. We will not be able to proceed to the "pits of death" due to lack of communications, and must complete the mission at Pele's Vents as quickly as possible. Surface, Make normal recovery. Collect. La bombe sample, rock sample with mat. 3 Niskin bottle samples, 2 Ti-samples (majors) and eight bucket samples of mat.

Equipment Deficiencies: UQC fails after last clear communications at 800^m.

Pilot T. Kerby Date 9.11.93
 Ops. Mgr R. Barnes Date 9.11.93