

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. \_\_\_\_\_  
 Observer Steve Price Wt. \_\_\_\_\_  
 Observer Title/Affil. HURL operations-P.I.T.

Dive # PV-509  
 Date December 11, 2002

Observer Tom Boyd Wt. \_\_\_\_\_  
 Observer Title/Affil. Naval Research Lab

Dive Location Loihi: Pele's Pit  
 Lat. 18° 54.45' N Long. 155° 15.75' W

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

Special Equipment:  
 Camera (type) Sony digital-Ros Color-Crigger Com.  
 Manipulator Titan, Hyco  
 Other \_\_\_\_\_

Support Vessel R/V Kaimikai-O-Kenaloa

Time of Dive 0818  
 Time of Surface 1645  
 Time Submerged 8:27  
 Time Thru Last Dive 3268:32  
 Total Time to Dive 3276:59  
 Dive Depth 1328m  
 Water Depth 1328m  
 Water Temp. 3.7°C @ 1310'  
 Visibility \_\_\_\_\_  
 ABT # at Neutral \_\_\_\_\_  
 Captain Ross Barnes

Dive Results/Remarks: NRL dives into Pele's Pit to collect & deploy animal traps and collect water samples. 0915 1117m Lend on a steep talus slope on the West slope of Pele's Pit. 0922 move upslope to 1104m then contour to the Southeast to marker #18. 0937 1104m at marker #18. 0941 Begin descent into pit. 1006 1327m on bottom of pit. 1007 Move to the NE. 1019 1321m at marker #12. Recover two traps full of amphipods. One at #12 the other at #40. Deploy two new bait traps at #12. Set out bait parcels. 1043 Move up to #40 at 1310m. 1050 At #28. 1053 At #40. Recover trap #1. 1112 Move to boiling pot site. 1115 1310m at boiling pot. 1119 Move upslope. 1128 1276m at #37. Take Lupton samples from vents. Yellow & white handle luptons. Conduct vertical wall transects taking Ph measurements. 1254 Move from #37 to #35. 1258 At Marker #35 at 1273m. Take Niskin sample in vent field.

Equipment Deficiencies: Begin amphipod experiment. 1408 Move to South entrance of spillway. 1443 1268m At dike feature that defines the South entrance of the spillway Deploy #35 1505 Move up and out of the pit via the spillway

Pilot Terry Kerby

Date 12/15/02

Ops. Mgr. TNR

Date 12/15/02