

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____ Dive # PV-498
 Observer Steve Price - PIT Wt. _____ Date November 11, 2002
 Observer Title/Affil. HURL
 Observer Brad Bailey Wt. _____
 Observer Title/Affil. SIO
 Dive Location Loihi - Pele's Pit
 Lat. 18° 54.345' N Long. 155° 15.381' W
 Purpose: Research Training Demo Marker # 48
 Other: Posit. N. Wall vents 18° 54.549' N 155° 15.451' W
 Special Equipment:
 Camera (type) Sony
 Manipulator Titan - HYCO
 Other _____
 Support Vessel R/V Kaimikai-O-Kanaloa
 Time of Dive 0833
 Time of Surface 1642
 Time Submerged 8:09
 Time Thru Last Dive 3174:17
 Total Time to Dive 3182:26
 Dive Depth 1328m
 Water Depth 1328m
 Water Temp. 3.2°C @ 1148m
 Visibility _____
 ABT # at Neutral _____
 Captain Ross Barnes

Dive Results/Remarks: Dive into Pele's pit to locate vents and establish a sampling site. 0945 On the bottom at 1148m. Move upslope to 1104m. Contour to the East. 1027 At marker #18. 1100 Deploy WHOI charges #4 & #7, and SIO charges #10, 11, & 12 at Marker #18. Recover charge #5. Take ball valve scoop #6 from the inside lip of the scarp. Easterly current. Collect 3 rocks. Take suction sample bucket #1. 1140 Begin descent into pit. 1208 1328m At bottom of pit. 1225 Attempt push core sampler. 1258 1311m At marker #42. No sign of charges. Move to the south at 1310m. Verify that boiling pot site and marker #44 have disappeared under landslide rubble. There is light venting coming through the landslide rubble where the boiling pot was. Move upslope to locate Tower vents. Discover that the marker #46 wall is gone. 1332 1263m Locate marker #48 vent site. Strong venting Temp. at cavity is 75.6°C. Take suction bucket #5. 1401 Take ball valve scoop #5. Scoop #3 breaks. Trigger niskin bottle. Deploy WHOI Sampler #3, & SIO samplers #4, 5, 6. Move up the wall from #48 @ 1263m to top of wall at 1200m. 1505 Move in midwater to N. Wall of Pit. 1505 Locate venting in unstable tephra on N. Wall at 1129m. 1532 1047m Leave the bottom.

Pilot Terry Kerby Date 11/15/02
 Ops. Mgr. [Signature] Date 11/15/02