

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-602 Date: October 27, 2004  
 Observer 1: Colin Wollerman  
 Affiliation: HURL - PIT Dive Location: Loihi - Pit dive.  
 Observer 2: Geoff Wheat Latitude: 18° 54.488' N  
 Affiliation: West Coast HURP Lab Longitude: 155° 15.734' W  
 Purpose: Research Training Test Time of Dive: 0804  
 Other: \_\_\_\_\_ Time of Surface: 1651  
 Special Equipment: \_\_\_\_\_ Time Submerged: 8:47  
 Cameras: Sony DV-ROS color Time Thru Last Dive: 3978:37  
 Manipulators: Titan. Hyco Total Time to Dive: 3987:24  
 Samplers/Sensors: \_\_\_\_\_ Dive Depth: 1325m  
 \_\_\_\_\_ Water Depth: 1325m  
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Temperature: 3.6°C @ 1325m  
 Captain: Ross Barnes Visibility: 4m in pit

Dive Results/Remarks: Loihi pit dive to survey and sample hydrothermal vent sites. 0858 1091m land on a steep slope of loose talus rubble on the inside of the pit on the west scarp. 0931 1104m sight marker #18. 0957 1104m land at #18. Clean marker #18. 1007 Begin descent into the pit. 1040 1325m land on flat black sandy terrain in the bottom of the pit. 1041 Move upslope to the NE. 1056 Locate #29 at 1310m. Move up to Get Vent Rock at 1288m. Take major in lower jet vents. Move to top of Get Vent rock. Chimneys with vents. 48°C. Move to #22 site. #22 is missing. 1220 At #22 site. No venting. Move back down slope. 1234 1302m at #36. Collect samplers. Move up the wall to #39. 1256 At #39. Collect sampler. 1301 Leave tiolo Ridge for #38 in spillway. 1321 At spillway vents. 1273m. Take water samples. Deploy samplers (Bectraps) Deploy marker #34. Take Rosette samples. 1337 Start trip back to Loihizu vents. 1400 On top of Get Vent rock. 1286m. Move to wall. Ascend wall to 1175m and turn East. 1416 1175m at #2. Reposition #2. To midfield vent. Take water samples. 1440 Move up to area of old Bectrap deployment. Collect 2 Bectraps, buried in silt. 1459 moved

Equipment Deficiencies: up slope to 1146m finger fields. Temp 20.0°C. move up to 1133m more extensive fingers. Temp. 23.1. 1534 Leave the bottom from 1101m.

Pilot's Signature: Terry Kerby Date: 10/28/04  
 Operations Director: Terry Kerby Date: 10/28/04