

V
PISCES ~~IV~~ DIVE REPORT

Pilot: Terry Kerby Dive #: PV-601 Date: October 26, 2009
 Observer 1: Steve Price
 Affiliation: HURL sub ops - PIT Dive Location: Loihi, PIT dive.
 Observer 2: Rich Davis Latitude: 18° 54.46' N
 Affiliation: Western Washington University Longitude: 155° 15.69' W
 Purpose: Research Training Test Time of Dive: 0804
 Other: _____ Time of Surface: 1700
 Special Equipment: _____ Time Submerged: 8:56
 Cameras: Sony DV - ROS Color Time Thru Last Dive: 3969:41
 Manipulators: Titan - Hyco Total Time to Dive: 3978:37
 Samplers/Sensors: Major Samplers - Dive Depth: 1325m
Bectraps - Niskem bottles. Water Depth: 1325m
 Support Vessel: P/V Kaimikai - O-Kanaloa Water Temperature: 3.8°C @ 1324m
 Captain: Ross Barnes Visibility: 6 m in pit

Dive Results/Remarks: Loihi pit dive to survey and sample hydrothermal vent sites. 0910 Land on a steep slope of loose talus rubble inside the pit at 1112m. The scarp area inside the pit is unstable and maneuvering in this area starts rock slides. Move upslope to the west to the top of the scarp at 1102m. Move along the scarp. 0957 1104m Locate #18. 1005 Deploy samplers at #18. 1021 Begin descent into the pit. 1046 1325m. Land on a flat bottom of rippled sediment in the bottom of the pit. 1056 Move upslope to the NE. 1109 Locate marker #29 at 1310m. 1113 Move upslope to the Jet Vent site. Move to the top of the Jet Vent rock and over the giant boulder to the old marker #22 site. Notice that the fractured wall has fallen away. Marker #22 is missing. There is no visible venting at this site, but we get a temperature of 32.5°C. Move down the wall to 1310m and move SE to 1299m to locate strong venting on the Higo ridge. Take water samples at a site below #39. 1242 moved down the wall to the boiling pot site at 1310m. Deploy marker #31 at boiling pot site. 1306 Collect sediment scoops. 1315 Move up the gully from the boiling pot site to the white spooze site on the Pilot ridge. 1340 collect samples in all 8 rosette jars. Move to #39. 1311 Take major samplers. water temp at Equipment Deficiencies: Vent is 5.7.1°C. 1426 move to #38. 1433 At #38. Recover samplers. move up spillway from #38. 1273m. Take a temp of 63.1°C at spillway vent. 1534 Leave the bottom from 1144m.

Pilot's Signature: Terry Kerby Date: Oct 29, 2009
 Operations Director: Terry Kerby Date: Oct 29, 2009