

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____
 Observer Steve Price Wt. _____
 Observer Title/Affil. HURL. PIT.

Dive # PV-468
 Date October 12, 2001

Observer Arnaud Bossuyt Wt. _____
 Observer Title/Affil. MARBEC

Time of Dive 0817
 Time of Surface 1612
 Time Submerged 7:55
 Time Thru Last Dive 2980:39
 Total Time to Dive 2988:34
 Dive Depth 1329 m
 Water Depth 1329 m
 Water Temp. 3.6°C @ 1329 m
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Dive Location Loihi, Peles Pit
 Lat. 18°54.36'N Long. 155°15.37'W
 Purpose: Research Training Demo

Other: _____
 Special Equipment:
 Camera (type) Sony-Panasonic-CCD
 Manipulator Titan-HYCO
 Other MARBEC Sampler-Rosette
 Support Vessel R/V Kaimikai-O-Kenaloa

Dive Results/Remarks: Dive to sample water and bacterial mats from hydrothermal vents, and explore pit for new vent sites. 0923 On the bottom on a steep talus slope in 1123m. Move upslope to 1104m and contour to marker #18 at edge of pit. 0951 Descending into pit. 1026 1328m on bottom of pit. Move across pit and upslope to FME 1046 @ marker #20. Move SSE at 1296m to base of wall. Move up wall. 1117 @ #46 on sharp ridge. Take temp. 51°C. Ascend wall to 1211m. Some weak venting. Move out away from wall and descend into pit area near wall. 1150 Locate vigorous venting at 1263m at the base of a wall. 80°C. Deploy marker #48. Take samples. Niskin, Rosette, & Marbec sampler. Move along base of wall to SSE. 1324 Venting all along base of wall. Locate another vigorous vent at 1269m 92°C. Deploy marker #47. Collect sulfides. Rosette Samples. Move up wall and to SSW. Vent water going up wall. Drop to source
 Equipment Deficiencies: at 1271m along the base of a vertical wall, and a steep talus slope. Cannot get a temp. probe down in the hole to get a vent temp. at this site. Recent loose talus blocks. Move back to N. along wall. Relocate markers 47, 48, & 46. 1457 Leave the bottom from 1328m.

Pilot Terry Kerby
 Ops. Mgr. Terry Kerby

Date 10/12/01
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