

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-636 Date: June 13, 2005
 Observer 1: Max Cremer
 Affiliation: HURL sub ops Dive Location: Volcano V-19
 Observer 2: Mark Hennington Latitude: 24° 48.000'S
 Affiliation: U of Ottawa. Longitude: 177° 01.197' W
 Purpose: Research Training Test
 Other: _____
 Time of Dive: 0852
 Time of Surface: 1638
 Special Equipment: _____
 Time Submerged: 7:46
 Cameras: Sony-ROS Time Thru Last Dive: 4228:11
 Manipulators: Titan-HYCO Total Time to Dive: 4235:57
 Samplers/Sensors: Rock box, Bio Box, Dive Depth: 1018m
CTD, Water Samplers, Sed Scoops. Water Depth: 1018m
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Temperature: 5.4°C @ 1018m
 Captain: Ross Barnes Visibility: 10m

Dive Results/Remarks: Explore Caldera for hydrothermal activity.
1012 Land on a flat sandy bottom in 1018m. 1052 Move to the
northeast. Deploy marker #34 at 972m. 1053 Begin contour circuit
of caldera floor at 972m. 1211 Discover sausage like bacterial mat
residue. Cylindrical Flokkaberrys. Deploy marker #35. Collect sediment scoop
#1. #35.13 at 972m. Move upslope to investigate source of mat. 1226 964m
Locate active venting and nontronite chimneys. Chimneys up to 1m high.
Temp in diffused venting is 29.3°C. 1246 855m getting out of chimneys.
1337 Dropped back down wall to 972m to continue contour. 1347 971m Take
sediment scoop #5. 1352 972m. Locate white deposits with what appears to be
spherulic pyrites. Continue contour around east side of caldera. 1431 969m
collect small tubeworm like organism. 1446 934m collect rock sample from dike.
1425 Moved over large nontronite chimneys. Continue survey to southwest
 Equipment Deficiencies: at 971m. Deploy marker #36 at end point. 1534
Leave the bottom from 971m.

Pilot's Signature: Terry Kerby Date: 7/9/05
 Operations Director: Terry Kerby Date: 7/9/05