

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-620 Date: April 17, 2005  
 Observer 1: Cornal dePonde  
 Affiliation: GNS New Zealand Dive Location: Giggenbach Volcano  
 Observer 2: Ron Greene Latitude: 30° 02.265' S  
 Affiliation: PMEL-NOAA Longitude: 178° 42.774' W  
 Purpose:  Research  Training  Test  
 Other: \_\_\_\_\_ Time of Dive: 1039  
 Special Equipment: \_\_\_\_\_ Time of Surface: 1654  
 Cameras: Sony - PDS - D5PK still Time Submerged: 6:15  
 Manipulators: Titan, HYCO Time Thru Last Dive: 4110:56  
 Samplers/Sensors: Bibox, Rosette, CTD, Total Time to Dive: 4118:11  
Gas tights, Mejers, Rock box, sediment scoops, Dive Depth: 205m  
 Support Vessel: PV Kaimikai-O-Kenaloa Water Depth: 205m  
 Captain: Ross Barnes Water Temperature: 16.7°C @ 178m  
 Visibility: 20 - 2 m.

Dive Results/Remarks: Exploration dive to collect geological and biological samples at hydrothermal vent sites. 1056 On the bottom at 178m. 1120 Moving up a talus cone. 1142 176m move south. 1155 Move along a slope with altered bottom showing signs of hydrothermal vent activity. Such as bacterial mat. Temp. 33.4°C. 1208 Move SE. 1300 183m Trying to locate marker #10. Into an area of pit craters. Dropped into a hole that had no visibility and narrowed to the size of the Pisces. Bottomed out at 205m and had to bump around in tight quarters to extract the sub. We must be careful in this area as there are several of these features south of marker #10. Locate chimneys near marker ten and breach off the top of one for a sample at 185m. 1358 At 196m in silt. locate #10. Take water samples vent temp. 184.8°C. Take scoop sample 1442 Move NE towards #12. 1530 Locate marker #12. Survey vent site. 1547 156m Collecting water from a  
 Equipment Deficiencies: gassing vent up slope from #12. Temp at vent 205°C. Move back to N boundary of vent site. 1623 Collect gas bubble sample in sediment scoop at 164m. 1625 Leave the bottom from 166m.

Pilot's Signature: Terry Kerby Date: April 24, 2005  
 Operations Director: Terry Kerby Date: April 24, 2005