

## PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-634 Date: May 18, 2005  
 Observer 1: Peter Dunsfield  
 Affiliation: GMS New Zealand Dive Location: Clark Volcano  
 Observer 2: Craig Jones Latitude: 36° 26.959' S  
 Affiliation: GMS New Zealand Longitude: 177° 50.714' E  
 Purpose: Research Training Test Time of Dive: 0758  
 Other: \_\_\_\_\_ Time of Surface: 1414  
 Special Equipment: \_\_\_\_\_ Time Submerged: 6:16  
 Cameras: Sony-RC5 Data still cam Time Thru Last Dive: 4217:53  
 Manipulators: Titan 7f. HYCO Total Time to Dive: 4224:09  
 Samplers/Sensors: Bio Reactor, Bio box, Rock box Dive Depth: 1073m  
Rosette, CTD, Niskin, sediment scoops Water Depth: 1073m  
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Temperature: 5.3°C @ 1073m  
 Captain: Ross Barnes Visibility: 20m+

Dive Results/Remarks: Exploration dive to survey and sample the hydrothermal vent activity on Clark volcano. 0855 Land on a steep talus bottom at 1073m. 0903 Move upslope to the WNW. 0907 Collect gorgonians. 0942 884m Signs of bacterial mat. Collect Rosette sample. 0947 Continue upslope to the WNW. 0954 877m Locate white chimneys. Temp. 58.4°C. Collect samples. Deploy marker #32. Into area of white sulfur deposits and white silicate chimneys. 876m Temp at one chimney 208.2°C. 1556 872m At marker #14 at base of white towers. Temp. 220°C. 1130 875m searching for a lower temp. vent for the bio reactor sample. 1150 879m Take bio-reactor sample from vent first sampled on previous dive. 1200 879m Begin contour. Bottom is not as depicted on the bathymetric chart. There are individual ridge structures. We complete a small circuit around the silicate chimney area but run out of time before we can unravel the bottom terrain puzzle and contour survey the main cone.

Pilot's Signature: Terry Kerby Date: May 21, 2005  
 Operations Director: Terry Kerby Date: May 21, 2005