

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-623 Date: April 28, 2005
 Observer 1: Max Cremer - Pilot
 Affiliation: HURL sub ops Dive Location: Clark Volcano
 Observer 2: Alex Malahoff Latitude: 36°26.835'S
 Affiliation: GNS New Zealand Longitude: 177°50.651'E
 Purpose: Research Training Test Time of Dive: 0807
 Other: _____ Time of Surface: 1617
 Special Equipment: _____ Time Submerged: 8:10
 Cameras: Sony, ROS, BW, DSPL still Time Thru Last Dive: 4130:41
 Manipulators: Titan, Hyco Total Time to Dive: 4138:51
 Samplers/Sensors: Bio box, Majors, gas tight Dive Depth: 1072m
rock box, sediment sumps, rosette, temp probe. CTD Water Depth: 1072m
 Support Vessel: R/V Kaimikai-o-Kenaloa Water Temperature: 5.5°C
 Captain: Ross Barnes Visibility: 20m

Dive Results/Remarks: Exploration dive survey for hydrothermal vent activity on Clark Volcano and collect geological, biological and fluid samples. 0912 1072m. Land on a steep rocky slope. 0932 Move to the NW to a ridge. Start seeing signs of diffused hydrothermal activity. Collect samples. 1018 930m Locate sulfide deposits with hydrothermal activity. 92.5°C in vent. Collect rosette and scoop samples. Collect barnacles and a small sulfide chimney. 1100 879m. Move into an area of sulfide chimneys and widespread hydrothermal activity. Collect top of chimney. Temp. 185.2°C. Take one major and one gas tight sample. Deploy marker #14. 1130 Begin moving upslope towards summit and discover 2 large sulfide chimneys about 10m upslope from #14 site. Top of tower is at 866m base of tower is at 872m. 1142 Moved along a ridge to 867m then back down to towers. Collect sulfides and water samples at base. 872m Temp. 221°C. Moved on to the NW to summit of volcano. 1247 844m at summit. Telus. No signs of hydrothermal activity. Move back to

~~Equipment Deficiencies:~~ South. 1319 872m relocate marker #14 8m upslope to a more stable and visible position at the towers. 1322 Move south to waypoint #3. Collect samples along the way. Move on to summit of south cone. Telus. No signs of hydrothermal activity. Corals. 1517 leave the bottom from 848m

Pilot's Signature: Terry Kerby Date: 4/29/05

Operations Director: Terry Kerby Date: 4/29/05