

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-637 Date: June 14, 2005
 Observer 1: Colin Wollerman
 Affiliation: HURL sub ops PIT Dive Location: Volcano V-19
 Observer 2: Uli Schwarz-Schempera Latitude: 24° 48.110'S
 Affiliation: U of Kiel Longitude: 177° 01.173'W
 Purpose: Research Training Test
 Other: _____
 Time of Dive: 0915
 Time of Surface: 1644
 Special Equipment: _____
 Time Submerged: 7:29
 Cameras: Sony-ROS Time Thru Last Dive: 4235:57
 Manipulators: Titan-Hyco Total Time to Dive: 4243:26
 Samplers/Sensors: Bro box, Rock box, Gastights Dive Depth: 1012m
majors, sed scoops, Rosette sampler Water Depth: 1012m
 Support Vessel: R/V Kaimikai-o-Kanaloa Water Temperature: 5.8° @ 1012m
 Captain: Ross Barnes Visibility: _____

Dive Results/Remarks: Dive to explore caldera and south rim of V19 for hydrothermal activity. 1026 Land on the sedimented floor of the caldera at 1012m. 1031 Move to the south towards the area of nontronite chimneys. 1043 1012m sediment scoop #1 of pit sediment. 1053 986m on a rise on the south side of the caldera made up of sediment. 1118 988m into large nontronite chimney mounds. 13°C in mound. 1128 Discover large chimneys more consolidated than normal iron oxide chimneys that disintegrate when disturbed. Locate a 7m high chimney that we are able to land the Pisces on. Collect a lobe from the chimney. Chimney is at 985m. 1151 985m Locate an area in heavy nontronite crust that has been cleared out by P-V thruster blast from yesterday's dive. Locate vents and vent animals, crabs, shrimp, tube worms, that appear to be in the active vents under the crust. 31.3°C. Take water samples. Discover a more active vent 2m away. Temp. 112.9°C at 984m. Take water sample. Move Equipment Deficiencies: upslope. 1316 950m Move up a dike to the SSW. Follow dike to 900m. Dike's top cut on pinnacles. 1408 725m on top of ridge. 1414 Move to SE up ridge. 1442 698m. Summit of ridge. Move down slope to N. Move down vertical walls. 1544 923m Leave the bottom.

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