PISCES IV DIVE REPORT

Pilot: Terry Kerby Dive #: PIV-139 Date: June 23, 2005

Observer 1: Steve Price

Affiliation: HURL Sub ops

Observer 2: Uli Schwarz-Schamperra

Affiliation: U of Kiel.

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: Sony. ROS

Manipulators: Orion; HYCO

Samplers/Sensors: Bio Box, Rock box, Sed Sccops Water Samplers.

Support Vessel: R/V Kaimikai-O-Kanaloa

Captain: Ross Barnes

Dive Location: Volcano V-1

Latitude: 21°09.660's

Longitude: 175°44.202'W

Time of Dive: 0802

Time of Surface: 1629

Time Submerged: 8:27

Time Thru Last Dive: 1010:28

Total Time to Dive: 1018:55

Dive Depth: 371m

Water Depth: 371m

Water Temperature: 13.4° @ 371m

Visibility:

Dive Results/Remarks: Survey Volcano V-1 for hydrothermal activity. 0840 365m. On the bottom in sand and rubble. 0857 Move upslope to the NW. 0945 169m into an area of dense white cloudy material. Signs of hydrothermal alteration. 1037 173m into an area of active bacterial matt. Temp. in bottom sediment. 31°c. 1041 Move upslope to the West. Explore area in basin. Move NW over scoria and iron oxide deposit bottom. 1226 Moved ENE to the top of a summit area in 142m. No basalt outcrop formations. Rounded scoria top with corals. 1344 142m Move in midwater to wp#4. 1420 123m at wp#4. 1445 Drop down slope to the SW to an area between the ridge and the cone. 200m in basin. Discover live mussel beds and active hydrothermal vents. 10°c in vents. 1530 Lose hydraulics control. Leave the bottom from 196m.

Equipment Deficiencies: Lose hydraulics control. Blown fuse caused by thruster tilt control

Pilot's Signature: Terry Kerby Date: 7/13/05

Operations Director: [illegible] Date: 7/13/05