PISCES IV DIVE REPORT

Pilot: Terry Kerby Dive #: PIV-143 Date: June 26, 2005

Observer 1: Max Cremer

Affiliation: HURL Sub ops

Observer 2: Roger Hekinian

Affiliation:

Purpose: (Research) Training Test

Other:

Special Equipment:

Cameras: Sony - ROS

Manipulators: Orion, HYCO

Samplers/Sensors: Bio box, Rock Box sediment scoops.

Support Vessel: R/V Kaimikai-O-Kanaloa

Captain: Ross Barnes

Dive Location: Volcano V-1

Latitude: 21° 07.936' S

Longitude: 175° 43.820' W

Time of Dive: 0803

Time of Surface: 1643

Time Submerged: 8:40

Time Thru Last Dive: 1034:25

Total Time to Dive: 1043:05

Dive Depth: 434m

Water Depth: 434m

Water Temperature: 12.2°c @ 433m

Visibility:

Dive Results/Remarks: Rock collecting and survey dive on northeast wall of Volcano V1 caldera. 0902 Land on a sediment and rubble bottom in 433m. Move to the NE to the caldera walls. Collect rock samples. 1007 459m At wall. Move up a vertical wall of incredible ash layers, columnar basalt and intricate dike formations. 1224 370m Collecting rocks as we move up a vertical wall to the NE. 1343 217m. Moved upslope to the north to the summit of a cone feature. 1350 Move back downslope to the SE. 1420 382m collect columnar basalt bits from a massive flow feature on a vertical wall. Continue to descend down the wall. 1444 421m at the base of the wall. Move to the south east, collecting rocks. 1512 418m. Locate signs of hydrothermal alteration. Iron Oxide deposits. Temp. 26°c. 1533 428m. Continue to the SE. 1609 Leave the bottom from 434m.

Equipment Deficiencies:

Pilot's Signature: Terry Kerby Date: 7/23/05

Operations Director: Date: 7/23/05