PISCES IV DIVE REPORT

Pilot Terry Kerby Wt. _____
Observer Max Cremer Wt. _____
Observer Title/Affil. HURL Pilot In Training

Observer Eric Vetter Wt. _____
Observer Title/Affil. Hawaii Pacific University

Dive # PIV-092
Date September 6, 2003

Dive Location Nihoa
Lat. 23° 11.634' N Long. 161° 53.923' W
Purpose: (Research) Training Demo
Other:
Special Equipment:
Camera (type) Sony PDX-10/ROS clr/B&W
Manipulator Orion, HYCO
Other
Support Vessel R/V Kaimikai-O-Kanaloa

Time of Dive 0835
Time of Surface 1624
Time Submerged 7:49
Time Thru Last Dive 661:46
Total Time to Dive 669:35
Dive Depth 1228 m
Water Depth 1228 m
Water Temp. 2.8°c
Visibility
ABT # at Neutral
Captain Ross Barnes

Dive Results/Remarks: Canyon dive to conduct surveys and deploy bait and trap stations. P-IV is light on descent. Must flood water into the forward bow sphere to descend at a 100 m @ 4m/m rate. Estimate that sub has lost jettisonable weight. Decide to retain descent weights and trim with water ballest so sub will have ample weight in the event of an emergency and for ascent. 1008 Land on a rocky bottom with sand patches at 1220 m 1110 1228 m Move WNW along contour at 1228 m. Trying to locate marker # 34. Landing site is too close to the marker. Start search in the wrong direction. Run out of time after searching in two directions. 1154 Begin moving upslope to the Southeast. Orion manipulator is not working below 1000m. 1235 At 986 m.

Equipment Deficiencies: Orion is operational. 1300 Locate marker #23. 1313 recover trap and marker #23. 1406 Taking sediment core samples. 1425 Collect 3 cores. 1425 Move upslope to the SE. 1508 Locate a deployment site at 358 m. Deploy marker #23. Deploy trap #2. Deploy bait parcel #3. Collect algae. Collect sediment cores. 1532 Leave the bottom from 358 m. Make a normal recovery.

Pilot Terry Kerby Date 9/12/03

Ops. Mgr. Tim Kerby Date 9/12/03