Rev. 11-21-09

PISCES IV DIVE REPORT

Pilot: MAX CREMER Dive #: PI-249 Date: SEPTEMBER 23, 2011

Observer 1: GARY JOHNSTONE

Affiliation: NGTV

Observer 2: BILL LANGE

Affiliation: WHOI

Purpose: Research Training Test

Other: NATIONAL GEOGRAPHIC SPECIAL

Special Equipment:

Cameras: WHOI 3-D, MINI-ZEUSS

Manipulators: ORION 7-P, 14CO

Samplers/Sensors: - NONE -

Support Vessel: R/V KAIMIKAI-O-KANALOA

Captain: CLARY GUTZEIT

Dive Location: LOIHI, PELE'S PIT

Latitude: N° 18° 54.415

Longitude: W 155° 15.791

Time of Dive: 10:49

Time of Surface: 16:15

Time Submerged: 5:26

Time Thru Last Dive: 1761:42

Total Time to Dive: 1767:08

Dive Depth: 1340m

Water Depth: 1361m (bottom of PIT)

Water Temperature: NOT RECORDED

Visibility: VARIABLE, 5-15m

Dive Results/Remarks: NATIONAL GEOGRAPHIC PROJECT DIVE. MISSION IS TO CONDUCT THE FIRST 2-SUB DIVE INSIDE A VOLCANIC PIT CRATER AND OBTAIN 3DHD FOOTAGE IN PREPARATION OF VIP DIVE TO FOLLOW.

1212 Land on the bottom near Marker #18 in a steep talus slope. 1219 move toward Marker #18 to rendezvous with PISCES V. PISCE V in sight shortly thereafter and both submersibles begin the descent into the pit, with PISCES IV following PISCES V. CONDUCT 3DHD filming operations inside Pele's Pit for the remainder of the dive. DEFINITELY NOT RECOMMENDED FOR INEXPERIENCED PILOTS!! Toward the end of the dive working our way up and along spectacular vertical terrain on the North Wall of the pit crater. 1501 moving out towards center of pit and dropping ascent weights. Normal recovery.

Pilot's Signature: [signature] Date: 9-29-11

Operations Director: Terry Kerby Date: 10.8.11

For equipment deficiencies, refer to maintenance logs.