

PISCES V DIVE REPORT

Pilot T. Kerby Wt. _____
 Observer C. Holloway Wt. _____
 Observer Title/Affil. HURL Pilot in training

Dive # 420
 Date Sept. 9, 1999

Observer A. Malahoff Wt. _____
 Observer Title/Affil. HURL

Dive Location Pisces Peak to Pele's Pit
Loihi

Lat. 18° 55.05' N Long. 155° 15.95' W
 Purpose: Research Training Demo

Other: _____
 Special Equipment:

Camera (type) Sony, Photosea, Panasonic
 Manipulator Hydro, Titan
 Other Sample basket, Niskin rack, Gas samplers.
 Support Vessel Kaimihai - O - Kanaloa

Time of Dive 0816
 Time of Surface 1720
 Time Submerged 9:04
 Time Thru Last Dive 2664:49
 Total Time to Dive 2673:53
 Dive Depth 1328m
 Water Depth 1328m
 Water Temp. 3.8°C @ 1328
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Dive Results/Remarks: science dive to recover instruments and survey new pit. Land on a steep talus slope on the west side of the West Pit in 1126m. Move upslope to the East. 0943 956m at Pisces Peak. Deploy new pressure sensor. Recover old pressure sensor. 1000 Begin moving south from Pisces Peak towards Pele's Pit. 1104 1160m over center of Pit. Descend into pit. 1125 1328m on bottom in center of Pit. Begin search for sample site. 1157 1308m Locate marker #42. No venting. Visit marker #19, #10, & #11. No venting. Locate some venting up slope from #11. Recover osmo sampler from #11. Vents up slope from #11 are 74°C. Move up to lower Jet vent site. 1230 At lower jet vents. Temp. 163°C. Vigorous venting. Move up to #15. Very vigorous venting 1332 1292m @ #15. Take Niskin sample, major sampler, and Lupton sampler. Recover M,

Equipment Deficiencies: Temp. probe. Move up to #49 vents. Still venting at 1258m 98°C Take Lupton. Marker #49 is gone. Evidence of fresh land since last visit. 1431 Move back down. Deploy #22 at a new site at 1289m (Dike vents.) 138°C Explore area. 1541 Leave the bottom. Make a normal recovery.

Pilot Terry Kerby

Date 9/10/99

Ops. Mgr. AK

Date 9/10/99