

PISCES V DIVE REPORT

Pilot Terry Kerby Wt. _____
 Observer Tym Catterson Wt. _____
 Observer Title/Affil. HURL sub ops.

Dive # PV-397
 Date October 14, 1998

Observer Dave Emerson Wt. _____
 Observer Title/Affil. _____

Time of Dive 0815
 Time of Surface 1715
 Time Submerged 9:00
 Time Thru Last Dive 2506:22
 Total Time to Dive 2515:22
 Dive Depth 1328m
 Water Depth 1328m
 Water Temp. 3.4°C @ 1328m
 Visibility _____
 ABT # at Neutral _____
 Captain Bob Hayes

Dive Location Loihi, Pele's Pit
 Lat. 18°54.35'N Long. 155°15.75'W
 Purpose: Research Training Demo
 Other: Pilot training
 Special Equipment:
 Camera (type) Panasonic, Photosea, Sony
 Manipulator Hyco-Titan
 Other _____
 Support Vessel R/V Kaimikai-O-Kenaloa

Dive Results/Remarks: 0929 Land on the West slope west of Pele's Pit in 1090m. Move south East. 0937 Locate marker #18 at 1104m. 0942 Begin descent into pit. 1002 1328m in bottom of pit. Move NE to locate vent site. 1017 @ Marker #42. No venting. 1028 @ #20. Vent temp. 47°C @ old osmo sampler. Deploy Bio Trap #18 & #21. 1107 Move upslope to Hot Vent site. Check on Bio-Tower. It is still standing. Move away from tower when strong current picks up to the West. 1124 1302m @ #11. Temp. @ #11 vent is 154°C. Deploy #19 trap. Temp. @ trap vent is 64°C. Pick up #10 trap. Take major sampler. Scoop sulfides. Deploy new Osmo sampler. 1221 Move upslope to lower Jet Vent site. Temp. 166°C. Recover Bio-trap #9. Deploy trap #22. Take a major sampler. Take a Gas-tight sampler. Deploy trap #23. & temp. probe at upper Jet Vent site. 1350 Move upslope from upper jet vents towards
 Equipment Deficiencies: 1287m Contour around a vertical wall with a large split section with vent water flowing out. Discover a large boulder (12m high) that forms a chock stone feature with a large overhang.

Pilot Terry Kerby
 Ops. Mgr. TK

Date 10/12/98
 Date 14/12/98

(over)

PV-397

Move to the top of the chock-stone and discover pinnacle formations with more venting to the East. Drop back down wall and chockstone. Move West around crack and fracture slab on wall and discover a very active vent in a shallow gully with a large volume of hot water flow.

Water temp. is 166°C . Take Niskin sample. Deploy marker #15. Site is at 1289m. Deploy trap #20.
1531 Verify that this site is upslope from upper Jet vent site.