

PISCES V DIVE REPORT

Pilot T. Kerby Wt. _____ Dive # PV-341
 Observer CO-Pilot - T. Catterson Wt. _____ Date Sept. 20, 1997
 Observer Title/Affil. HURL sub ops.
 Observer Max Gremer Wt. _____
 Observer Title/Affil. UofH
 Dive Location Loihi, Pele's Pit
 Lat. 18°54.42'N Long. 155°15.65'W
 Purpose: Research Training Demo marker #18 Posit.
 Other: _____
 Special Equipment:
 Camera (type) Sony, Panasonic, Photo sea
 Manipulator Titan, HYCO
 Other Gas tight samplers
 Support Vessel R/V Kaimikai-O-Kanaloa
 Time of Dive 0807
 Time of Surface 1713
 Time Submerged 9:06
 Time Thru Last Dive 2086:40
 Total Time to Dive 2095:46
 Dive Depth 1328m
 Water Depth 1328m
 Water Temp. 3.9°C @ 1309m
 Visibility _____
 ABT # at Neutral _____
 Captain Bub Hayes

Dive Results/Remarks: 0918 Over bottom at 1110m move upslope 0922
at marker #18. 0937 on bottom at #18. 0944 begin descent
into Pele's Pit. 1008 1328m at bottom of pit. Begin moving
E. across pit. 1017 Pass marker #42. 1037 On the bottom in
1310m @ #20. Deploy osmo sampler. Green tape. Take major. Scoop
collect rock. Collect shrimp. 1209 move to #33. 1230 1302m @ site 33
collect shrimp. Vent temp. 181°C. Collect rock. Scoop #9. Green major. Scoop #10.
Move upslope to lower Jet Vents at 1297m. Temp. probe in sediment with
diffused venting 184°C. suction material from wall. Collect shrimp.
move to vent near upper Jet Vents at 1296m. Collect sponge like organism (2)
from area near vent. Vent temp. 192°C. Collect 2 sulfide rocks from vent.
 Equipment Deficiencies: Move to Hot Vent site at 1420. Take Red Major. Temp. Probe
in thick silt 79°C Temp. in vent 193°C. Take sediment scoop.
Recover Radon Detector instrument. Trip Niskin Bottle in vent.
Lift off. Hover up then turn south away from vent field.
Release weights over middle of pit from a midwater depth of
1288m.

Pilot T. Kerby Date 9/20/97
 Ops. Mgr. JK Date 9/20/97