

V
PISCES ~~IV~~ DIVE REPORT

Pilot: Terry Kerby Dive #: PV-600 Date: October 25, 2004
 Observer 1: Max Gremer - Pilot
 Affiliation: HURL sub ops. Pilot Dive Location: Loihi. Pit dive.
 Observer 2: Jennifer Hughes Latitude: 18° 54.458' N
 Affiliation: Mass Landing Longitude: 155° 15.740' W
 Purpose: Research Training Test Time of Dive: 0826
 Other: _____ Time of Surface: 1648
 Special Equipment: _____ Time Submerged: 8:22
 Cameras: Sony DV. R05 Color Time Thru Last Dive: 3961:19
 Manipulators: Titan HYCO Total Time to Dive: 3969:41
 Samplers/Sensors: Gas tights - Majors Dive Depth: 1325m
Niskins, Bectraps, Water Depth: 1325m 1327m
 Support Vessel: R/V Kaimihai-o-Kanaloa Water Temperature: 3.6°C @ 3969m
 Captain: Ross Barnes Visibility: 4m in pit.

Dive Results/Remarks: Survey and sampling of hydrothermal vent sites
0927 Land on a steep talus slope in 1106m. Move upslope to 1104m and
contour to south to #18. 0959 1104m at marker 18. Trip stbd niskin. 1003
begin descent into the pit. 1026 1325.7m in bottom of pit. Take
sediment core. Move across the pit end upslope to 1310m. Contour
to the SE. 1050 1310m at marker #29. Take a second core sample.
Take a push core sample at #29. 1058 Move towards Boiling pot site. 1110
Investigating venting on N. side of Hiolo Ridge. Perch on wall at active
vents at 1302m. Temp. 50.1°C. 1143 1300m just below #39 site at vents on
N. Hiolo Ridge wall. Take water samples. 1159 Take major sampler. Move
to the southeast to marker #30. Collect experiments. 1225 Move back
to the North West. 1237 At #39 at 1301m. Observe white melt in vent that was
vacuumed clean on a previous dive. Move to the North. 1255 At Jet Vent site
Collect samples. 1297m. 1307 Leave Jet Vent site. Move up wall to Lohiau vents.
1335 1177m at marker #2 at Lohiau vents. No visible venting but the temp is

Equipment Deficiencies: 21.3°C at #2. 1353 1176m move to vents at rech at 1173m 27.9°C. Move to mid field site. 28.5°C
Collect samples. 1532 Leave the bottom from 1142m.

Pilot's Signature: Terry Kerby Date: 10/28/04
 Operations Director: Terry Kerby Date: 10/28/04