

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-617 Date: April 14, 2005
 Observer 1: Steve Price
 Affiliation: HUURL sub ops. PIT Dive Location: Macauley Volcano
 Observer 2: Cornal de Ronde Latitude: 30° 12.619'S
 Affiliation: GMS New Zealand Longitude: 178° 27.064'W
 Purpose: Research Training Test Time of Dive: 0816
 Other: _____ Time of Surface: 1557
 Special Equipment: _____ Time Submerged: 7:41
 Cameras: Sony, ROS, DSPL still Time Thru Last Dive: 4087:36
 Manipulators: Titan, Hyco Total Time to Dive: 4095:17
 Samplers/Sensors: Bio Box, Water Samplers, Dive Depth: 438m
CTD, Rosette, sediment scoops Water Depth: 438m
 Support Vessel: R/V Kaimikai-O-Kenaloa Water Temperature: 10.1°C @ 438m
 Captain: Ross Barnes Visibility: 4m in pit

Dive Results/Remarks: Dive into pit on Macauley Volcano cone
to make geological and biological observations and collect
samples. 0850 438m Land on a steep talus slope. Collect
a rock with cup coral. Collect iron oxide crust. Moving up slope
towards summit of cone. 1000 315m Collected mussels, clams,
gastropods, starfish and razor clams. 1015 On rim of cone at
289m. 1023 Begin descent into pit. Pit is approx 80m across
and 99m deep. Poor visibility. Very cloudy water coming out of
pit. 1038 338m In bottom of pit. Visibility 3m. Temperature in
sediment is 129.5°C. Collecting samples. Crust, Water, Starfish. 1131
336m at marker #9. Temp at marker #9 is 126°C. Collect major
and gas tight sampler. 1255 Moved to another area of extensive
diffused venting. Temp in sediment is 130.8°C. Experience
current changes that clear the silt away then stop in surge like motion.
 Equipment Deficiencies: video yellow wall. 1358 Move to the north up vertical
walls. Observe geology surveying up walls. Collect white bacterial mats from
mussels up wall. move clockwise around pit at 290m to survey walls.
1530 Leave the bottom from 268m.

Pilot's Signature: Terry Kerby Date: April 24, 2005
 Operations Director: Terry Kerby Date: April 24, 2005