

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-639 Date: June 17, 2005
 Observer 1: Max Cremer
 Affiliation: HURL Sub Ops Dive Location: Volcano V-19
 Observer 2: Roger Hekinian Latitude: 24° 48.555 S
 Affiliation: _____ Longitude: 177° 00.426 W
 Purpose: Research Training Test
 Other: _____ Time of Dive: 0827
 Special Equipment: _____ Time of Surface: 1657
 Cameras: Sony-ROS Time Submerged: 8:30
 Manipulators: Titan-HyCO Time Thru Last Dive: 4252:08
 Samplers/Sensors: Bro Box, Reck Box, Sed Sccops Total Time to Dive: 4260:38
Segmented Reck box, CTD. Dive Depth: 564m
 Support Vessel: R/V Kaimikei-O-Kenaloa Water Depth: 564m
 Captain: Ross Barnes Water Temperature: 9.5° @ 564m
 Visibility: _____

Dive Results/Remarks: Hard rock collecting dive. Survey for hydrothermal vent activity. 0927 567m Land on a sedimented slope with iron oxide deposits. 0932 Move upslope to the NE. 1017 Still no rock. AA like formations on the bottom are iron oxide crust. 1020 Move east. 1037 Finally locate basalt formations and collect samples and ballast rocks. 1133 543m moved into a pit crater and discover diffused venting and an abundance of mussel shells, and clam shells. Suspect a sulfur venting source and move upslope to a dike. Move up the dike. No more signs of hydrothermal alteration. 514m at summit of dike. 1219 Move upslope to the east. Moving up vertical walls of massive flow and dike features. 1311 400m on top of WP#5 feature. Iron oxide crust. 1315 Move to WP#6 to the SW. 1336 438m On pinnacle near white chimney site. Collecting rocks. 1449 At the base of a vertical wall. Move up wall. 1359 385m On a pinnacle. Diffused venting. Temp. 29.5°. 1417 Move to the south. 1434 396m at the base of the White Chimney ridge. 1502 Moved on to WP#4. In a sandy depression. 1526 418m near WP#8 Temp in sandy bottom 38.0°. Equipment Deficiencies: move upslope to the SW. 1534 426m On a slope with hydrothermal activity. Locate vents with tiny tubeworms. Deploy marker #38. 1618 426m Leave the bottom. Notice white deposits downslope that should be investigated for hydrothermal activity.

Pilot's Signature: Terry Kerby Date: 7/11/05

Operations Director: Terry Kerby Date: 7/11/05