

PISCES V DIVE REPORT

Pilot: Terry Kerby Dive #: PV-628 Date: May 8, 2005
 Observer 1: Steve Price
 Affiliation: HURL sub ops PIT Dive Location: Brothers Volcano
 Observer 2: Cornal de Ronde Latitude: 34° 51.690' S
 Affiliation: GNS New Zealand Longitude: 179° 03.679' E
 Purpose: Research Training Test
 Time of Dive: 1314
 Other: _____ Time of Surface: 1745
 Special Equipment: _____ Time Submerged: 4:31
 Cameras: Sony-PC05-DSPL still Time Thru Last Dive: 4172:21
 Manipulators: Titan, Hyco Total Time to Dive: 4176:52
 Samplers/Sensors: Bio Box, Rock Box, Rosette Sampler Dive Depth: 1692m
CTD, Major, Gastight, sed scoops, Temp, Probe. Water Depth: 1692m
 Support Vessel: R/V Kaimikai-O-Kanaloa Water Temperature: 3.4° @ 1692m
 Captain: Ross Barnes Visibility: 4m on bottom.

Dive Results/Remarks: Dive on Brothers Volcano north wall to search for sulfide deposit area discovered on a prior shinkai dive. Late start due to mooring recoveries. 1442 1692m. Land on a steep rocky slope with poor visibility. Land in an area of hydrothermally altered bottom. Pick up ballast rock to trim the sub. 1505 1684m. Moved upslope about 8m from landing point and discover a field of active hot smokers. Deploy marker #20 at the base of a chimney. Try to settle on a large smoker to get a chimney but it falls over. We continue upslope because we have limited time. 1540 Contouring west at 1574m. 1536 1576m locate a white sulfide gully in the wall with heavy deposits of sparkling pyrites. 1540 1581m Continue contouring west. 1556 1571m. Moved into an area with dense colonies and signs of hydrothermal activity. Moved upslope and westerly and locate a deep
~~Equipment Deficiencies:~~ Gully with old inactive 4m high sulfide chimneys. Deploy marker #21 at 1571m on the ridge to the east of the chimney gully. 1621 Leave the bottom from 1521m

Pilot's Signature: Terry Kerby

Date: 5/9/05

Operations Director: Terry Kerby

Date: 5/9/05