

PISCES V DIVE REPORT

Pilot T. Kerby Wt. \_\_\_\_\_ Dive Number PS-143  
 Observer P. Sedwick Wt. \_\_\_\_\_ Date 30 March 1990  
 Observer Title/Affil. U of H

Observer N. Murphy Wt. \_\_\_\_\_  
 Observer Title/Affil. U of H Time of Dive 0943

Dive Location Loihi-Pele's Vents Time of Surface 1523  
 Lat. 18°54.5'N Long. 155°15.6'W Time Submerged 5:40

Purpose: Research Training Demo Time Thru Last Dive 727:26  
 Other \_\_\_\_\_ Total Time to Dive 733:06  
 Dive Depth 1150m 3772'

Special Equip.: Water Depth 3772'  
 Camera (type) Osprey Water Temp. 4°C on bottom at 980m  
 Manipulator HYCO Visibility \_\_\_\_\_

Other Ti Samplers - Niskem bottle - ABT # at Neutral  
Thermisters - CTD -

Dive Results/Remarks: Seas Rough. Launch to the South East  
of Pele's Vents. 1053 Land on a steep rocky bottom in 1150m.  
Moving up slope to the summit. 1205 At Pele's vents. Unable  
to pick up pinger until we are on East side of summit.  
Put Ti sampler in vent hole. Take 3 ti samples. One double  
2 singles. Take from 2 different vent holes with heavy hot water  
flow. Photos of vent hole. Collect rock. Put thermister in holes  
sampled by Ti samplers. Make temp. measurements. Up to 30.2°C  
4°C is ambient temp. Collect Teu sampler that was left on  
bottom from yesterday. Move out of area of vents to take  
Niskem sample from same depth as vents. 980m.

Equipment Deficiencies: Panasonic VDO camera not working on  
bottom. This is the first dive we have ~~attempted~~ done  
since Oct. 1989 where we haven't lost comp fluid in the hydraulic  
motor. We have changed pumps, realigned the end plate, replaced the O-rings  
replaced vent plugs, bladders, motors, plumbing, pump shaft seals, and  
comp fluid. We put hydraulic fluid in comp. housing instead of the  
the dielectric fluid we started with in October. No loss of comp fluid  
since changing to ATF to comp. Hydraulic motor.

Pilot Larry Kerby Date 3/31/90  
 Ops. Mgr VA Kerby Date 3/31/90