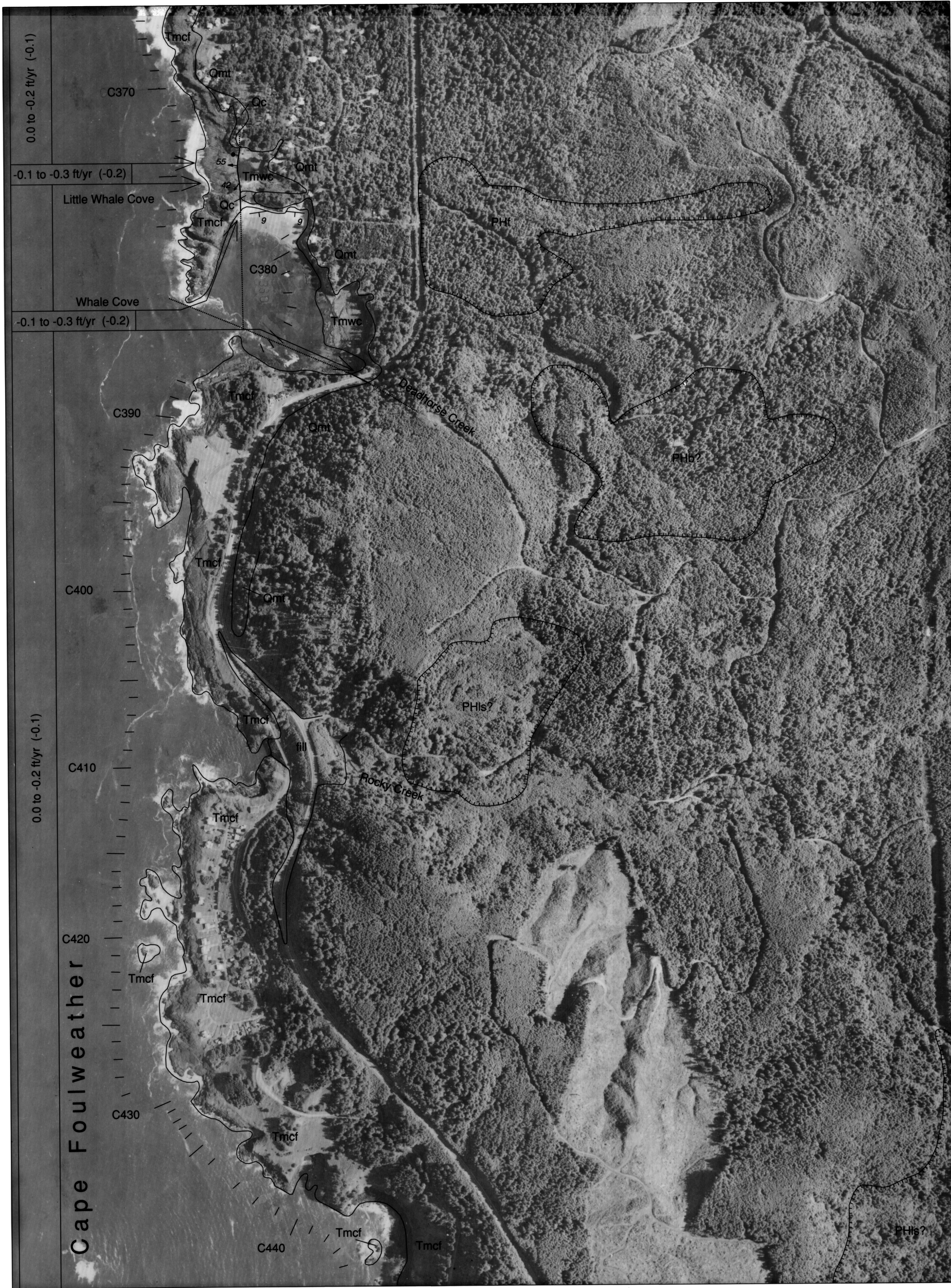


State of Oregon  
Department of Geology and Mineral Industries  
Donald A. Hull, State Geologist

By George R. Priest



**DISCLAIMER:** The Oregon Department of Geology and Mineral Industries is publishing this paper because the subject matter is consistent with the mission of the Department. To facilitate timely distribution of information, this report has not been edited to our usual standards.